

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Doreswamy, D., Bongale, A.M., Hegde, A.H., Bayezed, A.A., Das, V., S. P., Bhat, S., N, V.K., Castelino, E., Jain, K., Bhat, S.K.	Human-Hand Inspired Elastomeric Soft Pneumatic Actuators: Mapping the Research Landscape and Prospects	soft actuators, PneuNet, elastomers, soft robotics, hand	57, 4, 935-943	<a href="https://doi.org/10.18280/jesa.570401">https://doi.org/10.18280/jesa.570401</a>	Doreswamy, D., Bongale, A.M., Hegde, A.H., Bayezed, A.A., Das, V., S. P., Bhat, S., N, V.K., Castelino, E., Jain, K., Bhat, S.K. (2024). Human-hand inspired elastomeric soft pneumatic actuators: Mapping the research landscape and prospects. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 935-943. <a href="https://doi.org/10.18280/jesa.570401">https://doi.org/10.18280/jesa.570401</a>
2	Al-msary, A.J.K., Talib, A.H., Kadhim, B.S.	The Impact of Concurrent Engineering Techniques on Assembly Line Redesign: An Applied Study	concurrent engineering, idle time, team concurrent engineering, assembly line	57, 4, 945-952	<a href="https://doi.org/10.18280/jesa.570402">https://doi.org/10.18280/jesa.570402</a>	Al-msary, A.J.K., Talib, A.H., Kadhim, B.S. (2024). The impact of concurrent engineering techniques on assembly line redesign: An applied study. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 945-952. <a href="https://doi.org/10.18280/jesa.570402">https://doi.org/10.18280/jesa.570402</a>
3	Hamoodi, S.A., Hamoodi, A.N., Mohammed, R.A.N.	Design and Simulation of Smart Grid Based on Solar Photovoltaic and Wind Turbine Plants	smart grid, solar PV plant, wind turbine plant, power generation, Mosul climate data	57, 4, 953-961	<a href="https://doi.org/10.18280/jesa.570403">https://doi.org/10.18280/jesa.570403</a>	Hamoodi, S.A., Hamoodi, A.N., Mohammed, R.A.N. (2024). Design and simulation of smart grid based on solar photovoltaic and wind turbine plants. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 953-961. <a href="https://doi.org/10.18280/jesa.570403">https://doi.org/10.18280/jesa.570403</a>
4	Amin, S.A., Kareem, A.H., Marhoon, I.I., Kattab, D.A.A.N., Majdi, H.S.	Investigation of Welding Heat Input Influences on the Characteristics of Welded Joint of Storage Tank Wall Using Multiple Passes	M-A phase, AF formation, ANSYS, SOLIDWORKS design, corrosion resistance	57, 4, 963-973	<a href="https://doi.org/10.18280/jesa.570404">https://doi.org/10.18280/jesa.570404</a>	Amin, S.A., Kareem, A.H., Marhoon, I.I., Kattab, D.A.A.N., Majdi, H.S. (2024). Investigation of welding heat input influences on the characteristics of welded joint of storage tank wall using multiple passes. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 963-973. <a href="https://doi.org/10.18280/jesa.570404">https://doi.org/10.18280/jesa.570404</a>
5	Huu, H.B., Nga, V.N., Minh, D.B., Thanh, B.D., Quoc, V.D.	Analysis of SPMSMs with Outer Rotor Configuration by Analytical Model and Finite Element Technique	surface-mounted-permanent magnet synchronous motor, outer rotor configuration, analytical method, finite element technique	57, 4, 975-980	<a href="https://doi.org/10.18280/jesa.570405">https://doi.org/10.18280/jesa.570405</a>	Huu, H.B., Nga, V.N., Minh, D.B., Thanh, B.D., Quoc, V.D. (2024). Analysis of SPMSMs with outer rotor configuration by analytical model and finite element technique. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 975-980. <a href="https://doi.org/10.18280/jesa.570405">https://doi.org/10.18280/jesa.570405</a>
6	Yaseen, F.R., Kadhim, M.Q., Al-Khazraji, H., Humaidi, A.J.	Decentralized Control Design for Heating System in Multi-Zone Buildings Based on Whale Optimization Algorithm	heating system, energy consumption, control system, PID controller, swarm optimization techniques, whale optimization algorithm	57, 4, 981-989	<a href="https://doi.org/10.18280/jesa.570406">https://doi.org/10.18280/jesa.570406</a>	Yaseen, F.R., Kadhim, M.Q., Al-Khazraji, H., Humaidi, A.J. (2024). Decentralized control design for heating system in multi-zone buildings based on whale optimization algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 981-989. <a href="https://doi.org/10.18280/jesa.570406">https://doi.org/10.18280/jesa.570406</a>
7	Cheikh, K., Boudi, E.M., Rabi, R., Mokhliss, H.	Evaluating Economic Performance and Robustness of Maintenance Strategies for Degrading Systems	performance, robustness, stochastic degradation, condition-based maintenance, time-based maintenance, renewal process, Monte Carlo method, decision-making	57, 4, 991-1003	<a href="https://doi.org/10.18280/jesa.570407">https://doi.org/10.18280/jesa.570407</a>	Cheikh, K., Boudi, E.M., Rabi, R., Mokhliss, H. (2024). Evaluating economic performance and robustness of maintenance strategies for degrading systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 991-1003. <a href="https://doi.org/10.18280/jesa.570407">https://doi.org/10.18280/jesa.570407</a>
8	Khaleel, R.Z., Khaleel, H.Z., Al-Hareeri, A.A.A., Al-Obaidi, A.S.M., Humaidi, A.J.	Improved Trajectory Planning of Mobile Robot Based on Pelican Optimization Algorithm	mobile robot, POA, PSO, trajectory, obstacles	57, 4, 1005-1013	<a href="https://doi.org/10.18280/jesa.570408">https://doi.org/10.18280/jesa.570408</a>	Khaleel, R.Z., Khaleel, H.Z., Al-Hareeri, A.A.A., Al-Obaidi, A.S.M., Humaidi, A.J. (2024). Improved trajectory planning of mobile robot based on pelican optimization algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1005-1013. <a href="https://doi.org/10.18280/jesa.570408">https://doi.org/10.18280/jesa.570408</a>
9	Al-Yozbaky, O.S., Othman, R.A.	The Influence of Non-Sinusoidal Power Supply on Single-Phase Transformer Performance	non-sinusoidal supply, transformer losses, non-linear loads, B-H curve, THD	57, 4, 1015-1022	<a href="https://doi.org/10.18280/jesa.570409">https://doi.org/10.18280/jesa.570409</a>	Al-Yozbaky, O.S., Othman, R.A. (2024). The influence of non-sinusoidal power supply on single-phase transformer performance. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1015-1022. <a href="https://doi.org/10.18280/jesa.570409">https://doi.org/10.18280/jesa.570409</a>
10	Munaf, A., Almusawi, A.R.J.	Integration of Q-Learning and PID Controller for Mobile Robots Trajectory Tracking in Unknown Environments	Q-learning, path planning, differential drive, mobile robot, trajectory tracking, reinforcement learning (RL), robotics, PID controller	57, 4, 1023-1033	<a href="https://doi.org/10.18280/jesa.570410">https://doi.org/10.18280/jesa.570410</a>	Munaf, A., Almusawi, A.R.J. (2024). Integration of Q-learning and PID controller for mobile robots trajectory tracking in unknown environments. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1023-1033. <a href="https://doi.org/10.18280/jesa.570410">https://doi.org/10.18280/jesa.570410</a>
11	Mennad, M., Abderrahim, B., Youcef, D.	Enhancing Performance and Optimizing Energy Utilization and Voltage Regulation in Hybrid Wind-Solar Pumping Systems	wind turbines, photovoltaic systems, induction motor, saturation magnetic, pumping systems, sliding mode control, fuzzy logic control	57, 4, 1035-1045	<a href="https://doi.org/10.18280/jesa.570411">https://doi.org/10.18280/jesa.570411</a>	Mennad, M., Abderrahim, B., Youcef, D. (2024). Enhancing performance and optimizing energy utilization and voltage regulation in hybrid wind-solar pumping systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1035-1045. <a href="https://doi.org/10.18280/jesa.570411">https://doi.org/10.18280/jesa.570411</a>
12	Suphongwibunphan, R., Sangsuwan, T., Hansot, J., Wongsaroj, W., Thong-un, N.	A Novel Method for Knitted Fabric Defect Classification Using Image Processing and Weighted Voting Classifiers	defect classification, knitting fabrics, LabVIEW, machine learning, NI myRIO, weighted voting classifier	57, 4, 1047-1056	<a href="https://doi.org/10.18280/jesa.570412">https://doi.org/10.18280/jesa.570412</a>	Suphongwibunphan, R., Sangsuwan, T., Hansot, J., Wongsaroj, W., Thong-un, N. (2024). A novel method for knitted fabric defect classification using image processing and weighted voting classifiers. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1047-1056. <a href="https://doi.org/10.18280/jesa.570412">https://doi.org/10.18280/jesa.570412</a>
13	Al-Sadoon, M.G.D., Ali, O.M.	Energy, Exergy and Economic Analysis of Al-Qayyarah Gas Power Plant	simple cycle, gas turbine, energy analysis, exergy, irreversibility	57, 4, 1057-1066	<a href="https://doi.org/10.18280/jesa.570413">https://doi.org/10.18280/jesa.570413</a>	Al-Sadoon, M.G.D., Ali, O.M. (2024). Energy, exergy and economic analysis of Al-Qayyarah gas power plant. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1057-1066. <a href="https://doi.org/10.18280/jesa.570413">https://doi.org/10.18280/jesa.570413</a>
14	Olewi, B.K., Abood, L.H.	Enhanced PD Controller for Speed Control of Electric Vehicle Based on Gorilla Troops Algorithm	electric vehicle, motor speed, nonlinear PD, gorilla troops optimization	57, 4, 1067-1073	<a href="https://doi.org/10.18280/jesa.570414">https://doi.org/10.18280/jesa.570414</a>	Olewi, B.K., Abood, L.H. (2024). Enhanced PD controller for speed control of electric vehicle based on gorilla troops algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1067-1073. <a href="https://doi.org/10.18280/jesa.570414">https://doi.org/10.18280/jesa.570414</a>
15	Rani, M.D., Lakshmi, V.S.G.	Optimization-Based Approaches for Boosting Microgrid Resilience to Fault Events	microgrid, optimization, demand, fault, reliability, load demand, stability	57, 4, 1075-1089	<a href="https://doi.org/10.18280/jesa.570415">https://doi.org/10.18280/jesa.570415</a>	Rani, M.D., Lakshmi, V.S.G. (2024). Optimization-based approaches for boosting microgrid resilience to fault events. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1075-1089. <a href="https://doi.org/10.18280/jesa.570415">https://doi.org/10.18280/jesa.570415</a>
16	Namwad, R.S., Mishra, N.K., Ranu, Jain, P.	Optimizing Inventory Management with Seasonal Demand Forecasting in a Fuzzy Environment	supply model, shortages, forecasting demand, artificial intelligence, machine learning, deterioration, carbon pollution policy, finite planning horizon	57, 4, 1091-1102	<a href="https://doi.org/10.18280/jesa.570416">https://doi.org/10.18280/jesa.570416</a>	Namwad, R.S., Mishra, N.K., Ranu, Jain, P. (2024). Optimizing inventory management with seasonal demand forecasting in a fuzzy environment. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1091-1102. <a href="https://doi.org/10.18280/jesa.570416">https://doi.org/10.18280/jesa.570416</a>

17	Hadi, E.F., Bin Baharuddin, M.Z., Zuhdi, A.W.M.	Advancing Predictive Maintenance: Median-Based Particle Filtering in MOSFET Prognostics	predictive maintenance, Remaining Useful Life (RUL), MOSFET devices, Adaptive Particle Filter (APF), Gaussian Process Regression (GPR), prognostic model, genetic algorithm, resampling strategies	57, 4, 1103-1117	<a href="https://doi.org/10.18280/jesa.570417">https://doi.org/10.18280/jesa.570417</a>	Hadi, E.F., Bin Baharuddin, M.Z., Zuhdi, A.W.M. (2024). Advancing predictive maintenance: Median-based particle filtering in MOSFET prognostics. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1103-1117. <a href="https://doi.org/10.18280/jesa.570417">https://doi.org/10.18280/jesa.570417</a>
18	Namel, A.T., Sahib, M.A.	Data-Driven Based Bispectral Index Prediction During General Anesthesia	general anesthesia, machine learning, BIS prediction, PK-PD model, DOH, regression learning models	57, 4, 1119-1126	<a href="https://doi.org/10.18280/jesa.570418">https://doi.org/10.18280/jesa.570418</a>	Namel, A.T., Sahib, M.A. (2024). Data-driven based bispectral index prediction during general anesthesia. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1119-1126. <a href="https://doi.org/10.18280/jesa.570418">https://doi.org/10.18280/jesa.570418</a>
19	Rahi, A.S., Alwash, S.F.	Accurate Power Control for Hybrid PV-Battery/Supercapacitor System	power management, DC microgrids, bidirectional DC-DC converters	57, 4, 1127-1133	<a href="https://doi.org/10.18280/jesa.570419">https://doi.org/10.18280/jesa.570419</a>	Rahi, A.S., Alwash, S.F. (2024). Accurate power control for hybrid PV-battery/supercapacitor system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1127-1133. <a href="https://doi.org/10.18280/jesa.570419">https://doi.org/10.18280/jesa.570419</a>
20	Juwana, W.E., Alfaiz, N.F., Prasetyo, S.D., Rachmanto, R.A., Bangun, W.B., Arifin, Z.	Techno-Economic Analysis of Solar-Wind Powered EV Charging Stations at Train Station Parking Lots	HOMER-Grid, PV-wind turbine hybrid system, EV-charging, train station	57, 4, 1135-1143	<a href="https://doi.org/10.18280/jesa.570420">https://doi.org/10.18280/jesa.570420</a>	Juwana, W.E., Alfaiz, N.F., Prasetyo, S.D., Rachmanto, R.A., Bangun, W.B., Arifin, Z. (2024). Techno-economic analysis of solar-wind powered EV charging stations at train station parking lots. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1135-1143. <a href="https://doi.org/10.18280/jesa.570420">https://doi.org/10.18280/jesa.570420</a>
21	Patil, P., Kadam, S.U., Aruna, E.R., More, A., M., B.R., Rao, B.N.K.	Recommendation System for E-Commerce Using Collaborative Filtering	recommendation, collaborative filtering, e-commerce	57, 4, 1145-1153	<a href="https://doi.org/10.18280/jesa.570421">https://doi.org/10.18280/jesa.570421</a>	Patil, P., Kadam, S.U., Aruna, E.R., More, A., M., B.R., Rao, B.N.K. (2024). Recommendation system for e-commerce using collaborative filtering. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1145-1153. <a href="https://doi.org/10.18280/jesa.570421">https://doi.org/10.18280/jesa.570421</a>
22	Cheggaga, N., Dahli, K., Hammouda, M.R., Benallal, A., Ilinca, A.	Innovative Shade Mitigation Technique for Maximizing Solar Energy Efficiency in Roof-Mounted PV Systems	astronomical equations, PV efficiency, photovoltaic systems, shading avoidance	57, 4, 1155-1164	<a href="https://doi.org/10.18280/jesa.570422">https://doi.org/10.18280/jesa.570422</a>	Cheggaga, N., Dahli, K., Hammouda, M.R., Benallal, A., Ilinca, A. (2024). Innovative shade mitigation technique for maximizing solar energy efficiency in roof-mounted PV systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1155-1164. <a href="https://doi.org/10.18280/jesa.570422">https://doi.org/10.18280/jesa.570422</a>
23	Madyatmadja, E.D., Candra, H., Nathaniel, J., Jonathan, M.R., Rudy.	Sentiment Analysis on User Reviews of Threads Applications in Indonesia	user review, machine learning, naive bayes, SVM, random forest, preprocessing, sentiment analysis	57, 4, 1165-1171	<a href="https://doi.org/10.18280/jesa.570423">https://doi.org/10.18280/jesa.570423</a>	Madyatmadja, E.D., Candra, H., Nathaniel, J., Jonathan, M.R., Rudy. (2024). Sentiment analysis on user reviews of Threads applications in Indonesia. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1165-1171. <a href="https://doi.org/10.18280/jesa.570423">https://doi.org/10.18280/jesa.570423</a>
24	Bensaad, D., Hadjadj, A., Djekidel, R., Ales, A.	Analytical Modeling and Experimental Validation of Common Mode Impedance in a Low-Voltage DC Micro-Grid	DC micro-grid, electromagnetic interference, common mode, impedance, conducted electromagnetic, converter DC-DC, power converters, analytical modeling electrical installation	57, 4, 1173-1183	<a href="https://doi.org/10.18280/jesa.570424">https://doi.org/10.18280/jesa.570424</a>	Bensaad, D., Hadjadj, A., Djekidel, R., Ales, A. (2024). Analytical modeling and experimental validation of common mode impedance in a low-voltage DC micro-grid. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1173-1183. <a href="https://doi.org/10.18280/jesa.570424">https://doi.org/10.18280/jesa.570424</a>
25	Jadhav, P., A. S.V., Singh, A., Kolhar, S., Mahajan, S.	Reinforcement Learning for Rolling Bearing Fault Diagnosis—A Comprehensive Review	deep learning, fault detection, machine learning, reinforcement learning, deep Q networks, predictive maintenance	57, 4, 1185-1193	<a href="https://doi.org/10.18280/jesa.570425">https://doi.org/10.18280/jesa.570425</a>	Jadhav, P., A. S.V., Singh, A., Kolhar, S., Mahajan, S. (2024). Reinforcement learning for rolling bearing fault diagnosis—A comprehensive review. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1185-1193. <a href="https://doi.org/10.18280/jesa.570425">https://doi.org/10.18280/jesa.570425</a>
26	Mahmood, M.S., Shareef, I.R.	Applications of Artificial Intelligence for Smart Conveyor Belt Monitoring Systems: A Comprehensive Review	AI systems in conveyor belt, CNN models, densenet classification, learning algorithms, visual recognition	57, 4, 1195-1206	<a href="https://doi.org/10.18280/jesa.570426">https://doi.org/10.18280/jesa.570426</a>	Mahmood, M.S., Shareef, I.R. (2024). Applications of artificial intelligence for smart conveyor belt monitoring systems: A comprehensive review. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1195-1206. <a href="https://doi.org/10.18280/jesa.570426">https://doi.org/10.18280/jesa.570426</a>
27	Mistiawan, A., Suhartono, D.	Product Matching with Two-Branch Neural Network Embedding	deep learning, BERT, CharacterBERT, EfficientNet, ArcFace, product matching	57, 4, 1207-1214	<a href="https://doi.org/10.18280/jesa.570427">https://doi.org/10.18280/jesa.570427</a>	Mistiawan, A., Suhartono, D. (2024). Product matching with two-branch neural network embedding. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1207-1214. <a href="https://doi.org/10.18280/jesa.570427">https://doi.org/10.18280/jesa.570427</a>
28	Mauludin, M.S., Khairudin, M., Asnawi, R., Prasetyo, S.D., Alfaiz, N.F., Arifin, Z.	Modeling and Application of Rain-Light Sensor in Automatic Clothes Drying Design	prototype, design, automatic clothesline, Arduino	57, 4, 1215-1223	<a href="https://doi.org/10.18280/jesa.570428">https://doi.org/10.18280/jesa.570428</a>	Mauludin, M.S., Khairudin, M., Asnawi, R., Prasetyo, S.D., Alfaiz, N.F., Arifin, Z. (2024). Modeling and application of rain-light sensor in automatic clothes drying design. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1215-1223. <a href="https://doi.org/10.18280/jesa.570428">https://doi.org/10.18280/jesa.570428</a>
29	Izgheche, Y., Bahi, T., Lakhdera, A.	Intelligent Power Management Control for Hybrid Wind Solar Battery Systems Connected to Micro-Grids	optimization, hybrid system, energy storage, battery, management, SOC, FLC	57, 4, 1225-1233	<a href="https://doi.org/10.18280/jesa.570429">https://doi.org/10.18280/jesa.570429</a>	Izgheche, Y., Bahi, T., Lakhdera, A. (2024). Intelligent power management control for hybrid wind solar battery systems connected to micro-grids. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1225-1233. <a href="https://doi.org/10.18280/jesa.570429">https://doi.org/10.18280/jesa.570429</a>
30	Ikumapayi, O.M., Laseinde, O.T.	Nanomanufacturing in the 21st Century: A Review of Advancements, Applications and Future Prospects	nanomanufacturing, nanotechnology, energy, 21st century, microscopes, innovative techniques	57, 4, 1235-1248	<a href="https://doi.org/10.18280/jesa.570430">https://doi.org/10.18280/jesa.570430</a>	Ikumapayi, O.M., Laseinde, O.T. (2024). Nanomanufacturing in the 21st century: A review of advancements, applications and future prospects. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 4, pp. 1235-1248. <a href="https://doi.org/10.18280/jesa.570430">https://doi.org/10.18280/jesa.570430</a>
31	Dayananda, P., Srikantaswamy, M., Nagaraju, S., Nanjundaswamy, M.H.	A Machine Learning-Based Smart Grid Protection and Control Framework Using Kalman Filters for Enhanced Power Management	machine learning, smart grid, power management system, kalman filter, renewable energy	57, 3, 639-651	<a href="https://doi.org/10.18280/jesa.570301">https://doi.org/10.18280/jesa.570301</a>	Dayananda, P., Srikantaswamy, M., Nagaraju, S., Nanjundaswamy, M.H. (2024). A machine learning-based smart grid protection and control framework using Kalman filters for enhanced power management. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 639-651. <a href="https://doi.org/10.18280/jesa.570301">https://doi.org/10.18280/jesa.570301</a>
32	Mohammed, B.M., Alsaadi, M., Khalaf, M., Awad, A.S.	Game Theory-Based Multi-Hop Routing Protocol with Metaheuristic Optimization-Based Clustering Process in WSN for Precision Agriculture	game theory, optimization, WSN, precision agriculture, routing, clustering	57, 3, 653-662	<a href="https://doi.org/10.18280/jesa.570302">https://doi.org/10.18280/jesa.570302</a>	Mohammed, B.M., Alsaadi, M., Khalaf, M., Awad, A.S. (2024). Game theory-based multi-hop routing protocol with metaheuristic optimization-based clustering process in WSN for precision agriculture. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 653-662. <a href="https://doi.org/10.18280/jesa.570302">https://doi.org/10.18280/jesa.570302</a>

33	Charif, M., Allad, M., Bensidhoum, M.O.	Implementation of Simple Fuzzy PI Controller for Liquid Level Cascade Control	programmable logic controller, PLC, conventional controller, PID, simplest fuzzy controller, SFLC, level/ flow cascade control	57, 3, 663-670	<a href="https://doi.org/10.18280/jesa.570303">https://doi.org/10.18280/jesa.570303</a>	Charif, M., Allad, M., Bensidhoum, M.O. (2024). Implementation of simple fuzzy PI controller for liquid level cascade control. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 663-670. <a href="https://doi.org/10.18280/jesa.570303">https://doi.org/10.18280/jesa.570303</a>
34	Abdullahi, M.O., Mohamud, I.H., Mohamud, F.A.S.	Mapping the Research Landscape of Reverse Logistics in E-Commerce: A Bibliometric Analysis from 2003 to 2023	reverse logistics, e-commerce, bibliometric, VOSViewer, sustainable development	57, 3, 671-679	<a href="https://doi.org/10.18280/jesa.570304">https://doi.org/10.18280/jesa.570304</a>	Abdullahi, M.O., Mohamud, I.H., Mohamud, F.A.S. (2024). Mapping the research landscape of reverse logistics in e-commerce: A bibliometric analysis from 2003 to 2023. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 671-679. <a href="https://doi.org/10.18280/jesa.570304">https://doi.org/10.18280/jesa.570304</a>
35	Talha, F., Benmouiza, K., Birane, M.	In-Depth Comparison of PV Array Configurations and Boost Converter Topologies Using P&O and PSO Techniques	PSO, MPPT, topology, PV system, boost converter	57, 3, 681-687	<a href="https://doi.org/10.18280/jesa.570305">https://doi.org/10.18280/jesa.570305</a>	Talha, F., Benmouiza, K., Birane, M. (2024). In-depth comparison of PV array configurations and boost converter topologies using P&O and PSO techniques. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 681-687. <a href="https://doi.org/10.18280/jesa.570305">https://doi.org/10.18280/jesa.570305</a>
36	Abdelhamid, H., Bahi, T.	Performance Analysis of Maximum Power Point Tracking for Grid-Photovoltaic System	photovoltaic, buck-boost, DC control, MPPT, incremental conductance, grid system	57, 3, 689-697	<a href="https://doi.org/10.18280/jesa.570306">https://doi.org/10.18280/jesa.570306</a>	Abdelhamid, H., Bahi, T. (2024). Performance analysis of maximum power point tracking for grid-photovoltaic system. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 689-694. <a href="https://doi.org/10.18280/jesa.570306">https://doi.org/10.18280/jesa.570306</a>
37	AL-Qaysi, H.K.	Unified Power Flow Controller (UPFC) Used to Relieve Power Congestion on a 500/230 kV Grid	unified power flow controller (UPFC), power congestion, grid stability, voltage regulation, power system reliability	57, 3, 699-708	<a href="https://doi.org/10.18280/jesa.570307">https://doi.org/10.18280/jesa.570307</a>	AL-Qaysi, H.K. (2024). Unified power flow controller (UPFC) used to relieve power congestion on a 500/230 kV grid. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 699-708. <a href="https://doi.org/10.18280/jesa.570307">https://doi.org/10.18280/jesa.570307</a>
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39	Kadpan, W.R., Mustafa, F.F., Kadhim, H.T.	A Review of Control Automatically Water Irrigation Canal Using Multi Controllers and Sensors	automatic irrigation, control water irrigation canals, PLC, Arduino, Raspberry Pi, ultrasonic sensor, irrigation gate	57, 3, 717-727	<a href="https://doi.org/10.18280/jesa.570309">https://doi.org/10.18280/jesa.570309</a>	Kadpan, W.R., Mustafa, F.F., Kadhim, H.T. (2024). A review of control automatically water irrigation canal using multi controllers and sensors. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 717-727. <a href="https://doi.org/10.18280/jesa.570309">https://doi.org/10.18280/jesa.570309</a>
40	Hamoudi, A.K., Rasheed, L.T.	Design of an Adaptive Integral Sliding Mode Controller for Position Control of Electronic Throttle Valve	electronic throttle valve, adaptive integral sliding mode controller, disturbance, parameters uncertainty, chattering	57, 3, 729-735	<a href="https://doi.org/10.18280/jesa.570310">https://doi.org/10.18280/jesa.570310</a>	Hamoudi, A.K., Rasheed, L.T. (2024). Design of an adaptive integral sliding mode controller for position control of electronic throttle valve. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 729-735. <a href="https://doi.org/10.18280/jesa.570310">https://doi.org/10.18280/jesa.570310</a>
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43	Lehman, S., El Hassani, H.	Supply Chain Risk Mitigation: Modeling an Approach for Greater Visibility in Moroccan Automotive Industry	supply chain, resilience, risk management, Covid-19, visibility	57, 3, 757-766	<a href="https://doi.org/10.18280/jesa.570313">https://doi.org/10.18280/jesa.570313</a>	Lehman, S., El Hassani, H. (2024). Supply chain risk mitigation: Modeling an approach for greater visibility in Moroccan automotive industry. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 757-766. <a href="https://doi.org/10.18280/jesa.570313">https://doi.org/10.18280/jesa.570313</a>
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46	Jouda, M.A., Shiker, M.A.K.	Comparing the Effectiveness of PERT and CPM Techniques in a House Construction Project: A Case Study	activities, critical path method, CPM, project management, review technology, PERT	57, 3, 781-785	<a href="https://doi.org/10.18280/jesa.570316">https://doi.org/10.18280/jesa.570316</a>	Jouda, M.A., Shiker, M.A.K. (2024). Comparing the effectiveness of PERT and CPM techniques in a house construction project: A case study. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 781-785. <a href="https://doi.org/10.18280/jesa.570316">https://doi.org/10.18280/jesa.570316</a>
47	Kaittan, K.H., Mohammed, S.J.	PLC-SCADA Automation of Inlet Wastewater Treatment Processes: Design, Implementation, and Evaluation	BOD, COD, PH, PLC-S7300, SCADA, TCP/IP, TIA portal, wastewater treatment	57, 3, 787-796	<a href="https://doi.org/10.18280/jesa.570317">https://doi.org/10.18280/jesa.570317</a>	Kaittan, K.H., Mohammed, S.J. (2024). PLC-SCADA automation of inlet wastewater treatment processes: Design, implementation, and evaluation. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 787-796. <a href="https://doi.org/10.18280/jesa.570317">https://doi.org/10.18280/jesa.570317</a>
48	Rasheed, I.M., Motlak, H.J.	Design Optimization of CMOS Folded Cascode OTA Using Water Cycle Algorithm for Enhanced Performance	water cycle algorithm, CMOS folded cascode, operational transconductance amplifier, OTA, power consumption, gain bandwidth, voltage gain, phase margin, and slew rate	57, 3, 797-803	<a href="https://doi.org/10.18280/jesa.570318">https://doi.org/10.18280/jesa.570318</a>	Rasheed, I.M., Motlak, H.J. (2024). Design optimization of CMOS folded cascode OTA using water cycle algorithm for enhanced performance. Journal Européen des Systèmes Automatisés, Vol. 57, No. 3, pp. 797-803. <a href="https://doi.org/10.18280/jesa.570318">https://doi.org/10.18280/jesa.570318</a>

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50	Hussein, Z.S., Motlak, H.J.	Design Methodology for a Low-Power Two-Stage CMOS Operational Amplifier for Optical Receiver Applications	CMOS, TIA, low-noise, power reduction CMOS, Si-bipolar technology	57, 3, 815-822	<a href="https://doi.org/10.18280/jesa.570320">https://doi.org/10.18280/jesa.570320</a>	Hussein, Z.S., Motlak, H.J. (2024). Design methodology for a low-power two-stage CMOS operational amplifier for optical receiver applications. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 815-822. <a href="https://doi.org/10.18280/jesa.570320">https://doi.org/10.18280/jesa.570320</a>
51	Abdulkareem, J.J., Ali, H.I., Lutfy, O.F.	Robust and Intelligent Feedforward-Feedback Controller Design for Nonlinear Systems	feedforward-feedback robust control, wavelet neural network, WNN, H-infinity controller, PSO	57, 3, 823-832	<a href="https://doi.org/10.18280/jesa.570321">https://doi.org/10.18280/jesa.570321</a>	Abdulkareem, J.J., Ali, H.I., Lutfy, O.F. (2024). Robust and intelligent feedforward-feedback controller design for nonlinear systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 823-832. <a href="https://doi.org/10.18280/jesa.570321">https://doi.org/10.18280/jesa.570321</a>
52	Hammo, A.N., Sabry, S.S., Saied, B.M.	Design and Evaluation of Galvanic Isolation for Full Bridge DC to DC Converter	performance and evaluation, magnetic core materials, switched mode power supply	57, 3, 833-840	<a href="https://doi.org/10.18280/jesa.570322">https://doi.org/10.18280/jesa.570322</a>	Hammo, A.N., Sabry, S.S., Saied, B.M. (2024). Design and evaluation of galvanic isolation for full bridge DC to DC converter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 833-840. <a href="https://doi.org/10.18280/jesa.570322">https://doi.org/10.18280/jesa.570322</a>
53	Yahia, A.M., Alkamachi, A.	Design, Modeling, and Control of Tiltable Tri-Rotors UAV	UAV, Tri-copter, thrust vectoring, PID, genetic algorithm, feedback linearization	57, 3, 841-848	<a href="https://doi.org/10.18280/jesa.570323">https://doi.org/10.18280/jesa.570323</a>	Yahia, A.M., Alkamachi, A. (2024). Design, modeling, and control of tiltable tri-rotors UAV. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 841-848. <a href="https://doi.org/10.18280/jesa.570323">https://doi.org/10.18280/jesa.570323</a>
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55	Fadhil, A.M., Din, N.M., Mohd Aripin, N.B., Abed, A.A.	Secure AODV Routing Strategies in Smart Cities for Vehicular Communication	AODV, secure routing, VANET, smart city	57, 3, 861-867	<a href="https://doi.org/10.18280/jesa.570325">https://doi.org/10.18280/jesa.570325</a>	Fadhil, A.M., Din, N.M., Mohd Aripin, N.B., Abed, A.A. (2024). Secure AODV routing strategies in smart cities for vehicular communication. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 861-867. <a href="https://doi.org/10.18280/jesa.570325">https://doi.org/10.18280/jesa.570325</a>
56	Hamad, R.W., Ismail, M.H., Raed, S.	Efficient MRI Image Real-Time Processing Using FPGA-Based IIR Filters	magnetic resonance imaging, image compression, image fusion, edge detection, Xilinx System Generator, FPGA	57, 3, 869-876	<a href="https://doi.org/10.18280/jesa.570326">https://doi.org/10.18280/jesa.570326</a>	Hamad, R.W., Ismail, M.H., Raed, S. (2024). Efficient MRI image real-time processing using FPGA-based IIR filters. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 869-876. <a href="https://doi.org/10.18280/jesa.570326">https://doi.org/10.18280/jesa.570326</a>
57	Almajeed, L.A., Fadhil, L., Rasheed, A.N., Gaied, K.S.	Enhancing Photovoltaic Panel Performance Through Artificial Neural Network and Maximum Power Point Tracking	solar radiation, photovoltaic panels, maximum power point tracking, MPPT, artificial neural networks, ANN	57, 3, 877-886	<a href="https://doi.org/10.18280/jesa.570327">https://doi.org/10.18280/jesa.570327</a>	Almajeed, L.A., Fadhil, L., Rasheed, A.N., Gaied, K.S. (2024). Enhancing photovoltaic panel performance through artificial neural network and maximum power point tracking. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 877-886. <a href="https://doi.org/10.18280/jesa.570327">https://doi.org/10.18280/jesa.570327</a>
58	Al-Ashtari, W.	Enhancing the Performance of Active Suspension Systems Through Adaptive Control	adaptive control, vehicle suspension systems, LQR, Lyapunov theorem, fine-tuning parameter	57, 3, 887-897	<a href="https://doi.org/10.18280/jesa.570328">https://doi.org/10.18280/jesa.570328</a>	Al-Ashtari, W. (2024). Enhancing the performance of active suspension systems through adaptive control. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 887-897. <a href="https://doi.org/10.18280/jesa.570328">https://doi.org/10.18280/jesa.570328</a>
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60	Tajaldin, K.H., Motlak, H.J.	Enhancement of DC-DC Luo Converter Using Adaptive PI MPPT and P&O MPPT for Photovoltaic System	maximum power point tracking, perturb and observe, incremental conductance, P&O with proportional integral	57, 3, 921-933	<a href="https://doi.org/10.18280/jesa.570330">https://doi.org/10.18280/jesa.570330</a>	Tajaldin, K.H., Motlak, H.J. (2024). Enhancement of DC-DC Luo converter using adaptive PI MPPT and P&O MPPT for photovoltaic system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 3, pp. 921-933. <a href="https://doi.org/10.18280/jesa.570330">https://doi.org/10.18280/jesa.570330</a>
61	Qasim, A.Y., Tahir, F.R., Alsammak, A.N.B.	Improving Power Quality in Distribution Systems Using UPQC: An Overview	UPQC, harmonic compensation, active power filter, power quality, D-FACTSs	57, 2, 311-322	<a href="https://doi.org/10.18280/jesa.570201">https://doi.org/10.18280/jesa.570201</a>	Qasim, A.Y., Tahir, F.R., Alsammak, A.N.B. (2024). Improving power quality in distribution systems using UPQC: An overview. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 2, pp. 311-322. <a href="https://doi.org/10.18280/jesa.570201">https://doi.org/10.18280/jesa.570201</a>
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63	Al-azzawi, M.M., Majdi, H.S., Abdullah, A.R.	Study of End-Effector of (2DOF) Five-Bar Robot Positioning: Accuracy, Modeling and Simulation	five-bar planar robot, gripping positioning accuracy, Matlab-Simulink	57, 2, 335-344	<a href="https://doi.org/10.18280/jesa.570203">https://doi.org/10.18280/jesa.570203</a>	Al-azzawi, M.M., Majdi, H.S., Abdullah, A.R. (2024). Study of end-effector of (2DOF) five-bar robot positioning: Accuracy, modeling and simulation. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 2, pp. 335-344. <a href="https://doi.org/10.18280/jesa.570203">https://doi.org/10.18280/jesa.570203</a>
64	Korabayev, Y., Kosbolov, S., Kubesova, G., Shurenov, M., Duisebayeva, K.	Investigating the Design and Application of Mobile Robotic Devices with Manipulation Devices for Space Technology	space technology, robotic technology, multifunctional model, control model, autonomous robotic systems, robot manipulator	57, 2, 345-352	<a href="https://doi.org/10.18280/jesa.570204">https://doi.org/10.18280/jesa.570204</a>	Korabayev, Y., Kosbolov, S., Kubesova, G., Shurenov, M., Duisebayeva, K. (2024). Investigating the design and application of mobile robotic devices with manipulation devices for space technology. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 2, pp. 345-352. <a href="https://doi.org/10.18280/jesa.570204">https://doi.org/10.18280/jesa.570204</a>

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67	Sanusi, Bareduan, S.A., Larisang.	Identifying and Prioritizing Waste in OCTG Production Lines Through Value Stream Mapping and Borda Count Method	lean manufacturing, waste, lead time, Value Stream Mapping, Borda Count Methods	57, 2, 373-382	<a href="https://doi.org/10.18280/jesa.570207">https://doi.org/10.18280/jesa.570207</a>	Sanusi, Bareduan, S.A., Larisang. (2024). Identifying and prioritizing waste in OCTG production lines through Value Stream Mapping and Borda Count Method. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 57, No. 2, pp. 373-382. <a href="https://doi.org/10.18280/jesa.570207">https://doi.org/10.18280/jesa.570207</a>
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124	Saber, K., Elarkam, M., Zahir, A., Larabi, M.S., Colak, I.	Robust $H^\infty$ Optimal Control for Longitudinal and Lateral Dynamics in Small-Scale Helicopters	unmanned small-scale helicopter, longitudinal-lateral flight, mixed sensitivity, disturbance, uncertainties, $H^\infty$	56, 6, 929-944	<a href="https://doi.org/10.18280/jesa.560604">https://doi.org/10.18280/jesa.560604</a>	Saber, K., Elarkam, M., Zahir, A., Larabi, M.S., Colak, I. (2023). Robust $H^\infty$ optimal control for longitudinal and lateral dynamics in small-scale helicopters. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 929-944. <a href="https://doi.org/10.18280/jesa.560604">https://doi.org/10.18280/jesa.560604</a>
125	Ibrahim, M.A., Alsammak, A.N.B.	Reduction of Torque Ripple in Switched Reluctance Motor Drives Through Optimum Commutation Angles Control	switched reluctance motor (SRM), commutation angles control, torque ripple, bacterial foraging algorithm	56, 6, 945-950	<a href="https://doi.org/10.18280/jesa.560605">https://doi.org/10.18280/jesa.560605</a>	Ibrahim, M.A., Alsammak, A.N.B. (2023). Reduction of torque ripple in switched reluctance motor drives through optimum commutation angles control. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 945-950. <a href="https://doi.org/10.18280/jesa.560605">https://doi.org/10.18280/jesa.560605</a>
126	Oudjama, F., Boumediene, A., Saidi, K., Messirdi, M.	Comparative Study of Linear and Nonlinear H-Infinity Control for an Electric Vehicle	electric vehicle, permanent magnet synchronous motor, linear H-Infinity control, Algebraic Riccati equation, nonlinear H-Infinity control, Hamilton-Jacobi-Isaacs equation, the Galerkin approximation approach	56, 6, 951-961	<a href="https://doi.org/10.18280/jesa.560606">https://doi.org/10.18280/jesa.560606</a>	Oudjama, F., Boumediene, A., Saidi, K., Messirdi, M. (2023). Comparative study of linear and nonlinear H-Infinity control for an electric vehicle. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 951-961. <a href="https://doi.org/10.18280/jesa.560606">https://doi.org/10.18280/jesa.560606</a>
127	Alwash, S.M., Al-Thahab, O.Q.J., Alwash, S.F.	Modeling and Control Strategies for DFIG in Wind Turbines: A Comparative Analysis of SPWM, THIPWM, and SVPWM Techniques	SVPWM, SPWM, THIPWM, THD, wind turbine, B2B converter	56, 6, 963-972	<a href="https://doi.org/10.18280/jesa.560607">https://doi.org/10.18280/jesa.560607</a>	Alwash, S.M., Al-Thahab, O.Q.J., Alwash, S.F. (2023). Modeling and control strategies for DFIG in wind turbines: A comparative analysis of SPWM, THIPWM, and SVPWM techniques. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 963-972. <a href="https://doi.org/10.18280/jesa.560607">https://doi.org/10.18280/jesa.560607</a>
128	Mohamed, M.J., Abood, L.H.	Performance Evolution of Different Optimal Controllers for Controlling AVR System	AVR system, terminal voltage, PID, sun flower optimization algorithm	56, 6, 973-979	<a href="https://doi.org/10.18280/jesa.560608">https://doi.org/10.18280/jesa.560608</a>	Mohamed, M.J., Abood, L.H. (2023). Performance evolution of different optimal controllers for controlling AVR system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 973-979. <a href="https://doi.org/10.18280/jesa.560608">https://doi.org/10.18280/jesa.560608</a>



129	Ghatage, N.B., Patil, P.D., Shinde, S.	Lightweight RNN-Based Model for Adaptive Time Series Forecasting with Concept Drift Detection in Smart Homes	time series, lightweight, recurrent neural networks (RNN), concept drift detection, adaption to concept drift	56, 6, 981-991	<a href="https://doi.org/10.18280/jesa.560609">https://doi.org/10.18280/jesa.560609</a>	Ghatage, N.B., Patil, P.D., Shinde, S. (2023). Lightweight RNN-based model for adaptive time series forecasting with concept drift detection in smart homes. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 981-991. <a href="https://doi.org/10.18280/jesa.560609">https://doi.org/10.18280/jesa.560609</a>
130	Abd El Halim, A.A.E.B., Bayoumi, E.H.E., El-Khattam, W., Ibrahim, A.M.	Grid-Connected EV Fast Charging Stations Using Vector Control and CC-CV Techniques	electric vehicles, fast charging station, power quality, vector control, constant current-constant volt control	56, 6, 993-1001	<a href="https://doi.org/10.18280/jesa.560610">https://doi.org/10.18280/jesa.560610</a>	Abd El Halim, A.A.E.B., Bayoumi, E.H.E., El-Khattam, W., Ibrahim, A.M. (2023). Grid-connected EV fast charging stations using vector control and CC-CV techniques. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 993-1001. <a href="https://doi.org/10.18280/jesa.560610">https://doi.org/10.18280/jesa.560610</a>
131	Pandith, M.M., Ramaswamy, N.K., Srikantaswamy, M., Ramaswamy, R.K.	Efficient Geographic Routing for High-Speed Data in Wireless Multimedia Sensor Networks	geographic routing, multilevel multimedia sensor networks (WMSNs), two-phase geography greedy forwarding (TPGF), wireless sensor network (WSN), duty-cycled WSNs	56, 6, 1003-1017	<a href="https://doi.org/10.18280/jesa.560611">https://doi.org/10.18280/jesa.560611</a>	Pandith, M.M., Ramaswamy, N.K., Srikantaswamy, M., Ramaswamy, R.K. (2023). Efficient geographic routing for high-speed data in wireless multimedia sensor networks. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1003-1017. <a href="https://doi.org/10.18280/jesa.560611">https://doi.org/10.18280/jesa.560611</a>
132	Usman, F., Wardhani, J.K., Sari, I.C., Chalim, S.	Assessing Trauma Healing Methods for Volcanic Disaster Evacuees in Indonesia	assessing, trauma healing method, eruption, evacuees, 4D IPA, temporal shelter	56, 6, 1019-1025	<a href="https://doi.org/10.18280/jesa.560612">https://doi.org/10.18280/jesa.560612</a>	Usman, F., Wardhani, J.K., Sari, I.C., Chalim, S. (2023). Assessing trauma healing methods for volcanic disaster evacuees in Indonesia. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1019-1025. <a href="https://doi.org/10.18280/jesa.560612">https://doi.org/10.18280/jesa.560612</a>
133	Namwad, R.S., Mishra, N.K., Ranu.	Trade Credit and Preservation Technologies: An Inventory Replenishment Model for a Sustainable Supply Chain	supply chain replenishment, deterioration of materials, carbon emission, preservation technology, and trade credit	56, 6, 1027-1041	<a href="https://doi.org/10.18280/jesa.560613">https://doi.org/10.18280/jesa.560613</a>	Namwad, R.S., Mishra, N.K., Ranu. (2023). Trade credit and preservation technologies: An inventory replenishment model for a sustainable supply chain. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1027-1041. <a href="https://doi.org/10.18280/jesa.560613">https://doi.org/10.18280/jesa.560613</a>
134	Al-suod, M.M.S., Ushkarenko, O., Dorohan, O., Awwad, A.E., Al-Quteimat, A.	Software Quality Assessment Technique for the Autonomous Power Plants Automated Control Systems	software quality, testing, user interface, peer review technique, quality attributes	56, 6, 1043-1051	<a href="https://doi.org/10.18280/jesa.560614">https://doi.org/10.18280/jesa.560614</a>	Al-suod, M.M.S., Ushkarenko, O., Dorohan, O., Awwad, A.E., Al-Quteimat, A. (2023). Software quality assessment technique for the autonomous power plants automated control systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1043-1051. <a href="https://doi.org/10.18280/jesa.560614">https://doi.org/10.18280/jesa.560614</a>
135	Al-Ashtari, W., Ali, K.H.	Design of a Hybrid Adaptive Controller for Series Elastic Actuators of Robots	MRAC, SFC, SEAs, Lyapunov stability analysis, and controller performance	56, 6, 1053-1063	<a href="https://doi.org/10.18280/jesa.560615">https://doi.org/10.18280/jesa.560615</a>	Al-Ashtari, W., Ali, K.H. (2023). Design of a hybrid adaptive controller for series elastic actuators of robots. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1053-1063. <a href="https://doi.org/10.18280/jesa.560615">https://doi.org/10.18280/jesa.560615</a>
136	Dhulkefl, E.J., Mahmood, Z.S., Nasret, A.N., Mohammed, A.B.	A New Method Investigation for Robotic Inverted Pendulum Movement and Control	gyroscope sensor, gyro sensor, mobile inverted pendulum	56, 6, 1065-1071	<a href="https://doi.org/10.18280/jesa.560616">https://doi.org/10.18280/jesa.560616</a>	Dhulkefl, E.J., Mahmood, Z.S., Nasret, A.N., Mohammed, A.B. (2023). A new method investigation for robotic inverted pendulum movement and control. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1065-1071. <a href="https://doi.org/10.18280/jesa.560616">https://doi.org/10.18280/jesa.560616</a>
137	Meguetta, Z.E.	Designing Model-Free Control with Intelligent Controller for Autopilot Altitude Regulation in Aircraft	model-free control MFC, longitudinal aircraft, intelligent controller, PID controller, autopilot altitude	56, 6, 1073-1081	<a href="https://doi.org/10.18280/jesa.560617">https://doi.org/10.18280/jesa.560617</a>	Meguetta, Z.E. (2023). Designing model-free control with intelligent controller for autopilot altitude regulation in aircraft. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1073-1081. <a href="https://doi.org/10.18280/jesa.560617">https://doi.org/10.18280/jesa.560617</a>
138	Saeed, A.M., Rijab, K.S.	PID Controller Enhanced A* Algorithm for Efficient Water Boat	UWB, path planning, avoid obstacles, A* algorithm, PID controller	56, 6, 1083-1093	<a href="https://doi.org/10.18280/jesa.560618">https://doi.org/10.18280/jesa.560618</a>	Saeed, A.M., Rijab, K.S. (2023). PID controller enhanced A* algorithm for efficient water boat. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1083-1093. <a href="https://doi.org/10.18280/jesa.560618">https://doi.org/10.18280/jesa.560618</a>
139	Dahmani, A., Himour, K., Guettaf, Y.	Optimization of Power Quality in Grid Connected Photovoltaic Systems	PVG, incremental conductance, three-level flying capacitor inverter, boost converter, pulse width modulation, THD	56, 6, 1095-1103	<a href="https://doi.org/10.18280/jesa.560619">https://doi.org/10.18280/jesa.560619</a>	Dahmani, A., Himour, K., Guettaf, Y. (2023). Optimization of power quality in grid connected photovoltaic systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1095-1103. <a href="https://doi.org/10.18280/jesa.560619">https://doi.org/10.18280/jesa.560619</a>
140	Hameed, A.M., Hamoudi, A.K.	A 2-Link Robot with Adaptive Sliding Mode Controlled by Barrier Function	adaptive sliding mode controller (ASMC), conventional sliding mode controller (CSMC), barrier function, saturation function, chatter	56, 6, 1105-1113	<a href="https://doi.org/10.18280/jesa.560620">https://doi.org/10.18280/jesa.560620</a>	Hameed, A.M., Hamoudi, A.K. (2023). A 2-link robot with adaptive sliding mode controlled by barrier function. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 6, pp. 1105-1113. <a href="https://doi.org/10.18280/jesa.560620">https://doi.org/10.18280/jesa.560620</a>
141	Lachtar, N., Driss, I.	Application of Ant Colony Optimization for Job Shop Scheduling in the Pharmaceutical Industry	BIOCARE, ant colony optimization, genetic algorithm, industry, job shop scheduling problem, OR-TOOLS, particle swarm optimization, taboo search	56, 5, 713-723	<a href="https://doi.org/10.18280/jesa.560501">https://doi.org/10.18280/jesa.560501</a>	Lachtar, N., Driss, I. (2023). Application of ant colony optimization for job shop scheduling in the pharmaceutical industry. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 713-723. <a href="https://doi.org/10.18280/jesa.560501">https://doi.org/10.18280/jesa.560501</a>
142	Mhaouch, A., Elhamzi, W., Abdelali, A.B., Atri, M.	Efficient Design for a Hardware Implementation of the LED Block Cipher	lightweight cryptography, hardware implementation, LED block cipher, key fob, high-performance, security analysis, low-resource	56, 5, 725-733	<a href="https://doi.org/10.18280/jesa.560502">https://doi.org/10.18280/jesa.560502</a>	Mhaouch, A., Elhamzi, W., Abdelali, A.B., Atri, M. (2023). Efficient design for a hardware implementation of the LED block cipher. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 725-733. <a href="https://doi.org/10.18280/jesa.560502">https://doi.org/10.18280/jesa.560502</a>
143	Kadhim, N.N., Abood, L.H., Mohammed, Y.A.	Design an Optimal Fractional Order PID Controller for Speed Control of Electric Vehicle	electric vehicle, fractional-order PID (FOPID), speed control, sunflower optimization	56, 5, 735-741	<a href="https://doi.org/10.18280/jesa.560503">https://doi.org/10.18280/jesa.560503</a>	Kadhim, N.N., Abood, L.H., Mohammed, Y.A. (2023). Design an optimal fractional order PID controller for speed control of electric vehicle. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 735-741. <a href="https://doi.org/10.18280/jesa.560503">https://doi.org/10.18280/jesa.560503</a>
144	Mahmood, A., Almaged, M., Alnema, Y.H.S., Noaman, M.N.	Adaptive Cruise Control of A Simscape Driveline Vehicle Model Using Fuzzy Logic Controller	fuzzy logic controller, adaptive cruise control, MATLAB Simulink, autonomous vehicles, Simscape vehicle model	56, 5, 743-749	<a href="https://doi.org/10.18280/jesa.560504">https://doi.org/10.18280/jesa.560504</a>	Mahmood, A., Almaged, M., Alnema, Y.H.S., Noaman, M.N. (2023). Adaptive cruise control of a Simscape Driveline vehicle model using fuzzy logic controller. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 743-749. <a href="https://doi.org/10.18280/jesa.560504">https://doi.org/10.18280/jesa.560504</a>

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146	Sumasto, F., Arliana, D.A., Imansuri, F., Aisyah, S., Pratama, I.R.	Fault Tree Analysis: A Path to Improving Quality in Part Stay Protector A Comp	automotive part, fault tree analysis, minimal cut sets, quality	56, 5, 757-764	<a href="https://doi.org/10.18280/jesa.560506">https://doi.org/10.18280/jesa.560506</a>	Sumasto, F., Arliana, D.A., Imansuri, F., Aisyah, S., Pratama, I.R. (2023). Fault tree analysis: A path to improving quality in Part Stay Protector A Comp. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 757-764. <a href="https://doi.org/10.18280/jesa.560506">https://doi.org/10.18280/jesa.560506</a>
147	Jasim, M.A., Ahmed, O.K.	Comparative Evaluation of a Conventional and Photovoltaic/Thermal-Integrated Solar Distiller under Iraqi Climatic Conditions	solar distiller, photovoltaic/thermal (PV/T) collector, efficiency enhancement, water depth, performance assessment	56, 5, 765-774	<a href="https://doi.org/10.18280/jesa.560507">https://doi.org/10.18280/jesa.560507</a>	Jasim, M.A., Ahmed, O.K. (2023). Comparative evaluation of a conventional and photovoltaic/thermal-integrated solar distiller under Iraqi climatic conditions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 765-774. <a href="https://doi.org/10.18280/jesa.560507">https://doi.org/10.18280/jesa.560507</a>
148	Boudouane, I., Makhlof, A., Djelal, N., Saadia, N., Ramdane-Cherif, A.	Multimodal System of Ambient Assistance Services for Human Activity Monitoring	ambient services, fall detection, heart disorder detection, human activity monitoring, multimodal system, portable system, sensors fusion	56, 5, 775-785	<a href="https://doi.org/10.18280/jesa.560508">https://doi.org/10.18280/jesa.560508</a>	Boudouane, I., Makhlof, A., Djelal, N., Saadia, N., Ramdane-Cherif, A. (2023). Multimodal system of ambient assistance services for human activity monitoring. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 775-785. <a href="https://doi.org/10.18280/jesa.560508">https://doi.org/10.18280/jesa.560508</a>
149	Hadi, W.H.A., Jassem, A.A., Sabri, A.A., Ali, R.S.	FPGA Implementation of Circular Pseudo-Random Sequence Generator	adaptive, random sequence, circular, FPGA, linear feedback shift register (LFSR)	56, 5, 787-792	<a href="https://doi.org/10.18280/jesa.560509">https://doi.org/10.18280/jesa.560509</a>	Hadi, W.H.A., Jassem, A.A., Sabri, A.A., Ali, R.S. (2023). FPGA implementation of circular pseudo-random sequence generator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 787-792. <a href="https://doi.org/10.18280/jesa.560509">https://doi.org/10.18280/jesa.560509</a>
150	Mutuab, G.A., Hassan, M.Y.	Non-Linear PID Control of Fluid Catalytic Cracking Unit	FCCU, nonlinear PID control, PID	56, 5, 793-800	<a href="https://doi.org/10.18280/jesa.560510">https://doi.org/10.18280/jesa.560510</a>	Mutuab, G.A., Hassan, M.Y. (2023). Non-linear PID control of Fluid Catalytic Cracking Unit. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 793-800. <a href="https://doi.org/10.18280/jesa.560510">https://doi.org/10.18280/jesa.560510</a>
151	Neverov, E., Korotkiy, I., Vladimirov, A., Korotkih, P., Nikolaeva, E., Porokhnov, A.	Development of a Raspberry Pi-Based Automation System for an Induction-Heated Milk Pasteurizer	automation, pasteurizer, induction, magnetic flux, food, polymer, induction heating, process control	56, 5, 801-809	<a href="https://doi.org/10.18280/jesa.560511">https://doi.org/10.18280/jesa.560511</a>	Neverov, E., Korotkiy, I., Vladimirov, A., Korotkih, P., Nikolaeva, E., Porokhnov, A. (2023). Development of a Raspberry Pi-based automation system for an induction-heated milk pasteurizer. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 801-809. <a href="https://doi.org/10.18280/jesa.560511">https://doi.org/10.18280/jesa.560511</a>
152	Shanan, D.S., Kadhim, S.K.	Comparative Analysis of Airflow Regulation in Ventilator Systems Using Various Control Strategies	ventilator, PID control, nonlinear PID control, sliding mode control	56, 5, 811-821	<a href="https://doi.org/10.18280/jesa.560512">https://doi.org/10.18280/jesa.560512</a>	Shanan, D.S., Kadhim, S.K. (2023). Comparative analysis of airflow regulation in ventilator systems using various control strategies. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 811-821. <a href="https://doi.org/10.18280/jesa.560512">https://doi.org/10.18280/jesa.560512</a>
153	Qasim, A.Y., Tahir, F.R., Alsammak, A.N.B.	Utilizing UPQC-Based PAC-SRF Techniques to Mitigate Power Quality Issues under Non-Linear and Unbalanced Loads	voltage swell and sag, reactive power compensation, harmonic elimination, UPQC, power angle control (PAC)	56, 5, 823-831	<a href="https://doi.org/10.18280/jesa.560513">https://doi.org/10.18280/jesa.560513</a>	Qasim, A.Y., Tahir, F.R., Alsammak, A.N.B. (2023). Utilizing UPQC-based PAC-SRF techniques to mitigate power quality issues under non-linear and unbalanced loads. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 823-831. <a href="https://doi.org/10.18280/jesa.560513">https://doi.org/10.18280/jesa.560513</a>
154	Ezugwu, C.A.K., Fayomi, O.S.I., Onifade, M.K., Adeoye, A.O.M., Okokpujie, I.P.	Development of Theoretical and Numerical Framework for Selecting the Cutting Process Parameters for Turned Slender Parts	computational modelling, material removal rate, flexibility, accuracy, productivity	56, 5, 833-847	<a href="https://doi.org/10.18280/jesa.560514">https://doi.org/10.18280/jesa.560514</a>	Ezugwu, C.A.K., Fayomi, O.S.I., Onifade, M.K., Adeoye, A.O.M., Okokpujie, I.P. (2023). Development of theoretical and numerical framework for selecting the cutting process parameters for turned slender parts. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 833-847. <a href="https://doi.org/10.18280/jesa.560514">https://doi.org/10.18280/jesa.560514</a>
155	Ajayi, O., Izang, A.A., Osuji, C.F., Umeozo, C.T., Albert-Sogules, T.	Design and Implementation of a WiFi-Enabled Home Automation System	automation, home appliances, standards, technology, system, microcontroller, electrical appliances	56, 5, 849-855	<a href="https://doi.org/10.18280/jesa.560515">https://doi.org/10.18280/jesa.560515</a>	Ajayi, O., Izang, A.A., Osuji, C.F., Umeozo, C.T., Albert-Sogules, T. (2023). Design and implementation of a wifi-enabled home automation system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 849-855. <a href="https://doi.org/10.18280/jesa.560515">https://doi.org/10.18280/jesa.560515</a>
156	Mohammed, H.A., Alsammak, A.N.B.	An Intelligent Hybrid Control System using ANFIS-Optimization for Scalar Control of an Induction Motor	induction motor, scalar control, VFD, optimization, intelligent hybrid control system, ANFIS	56, 5, 857-862	<a href="https://doi.org/10.18280/jesa.560516">https://doi.org/10.18280/jesa.560516</a>	Mohammed, H.A., Alsammak, A.N.B. (2023). An intelligent hybrid control system using ANFIS-optimization for scalar control of an induction motor. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 857-862. <a href="https://doi.org/10.18280/jesa.560516">https://doi.org/10.18280/jesa.560516</a>
157	Djelal, N., Ouanane, A., Bourriachi, F.	LSTM-Based Visual Control for Complex Robot Interactions	visual servoing, interaction matrix, 6DOF robot, LSTM, identification	56, 5, 863-870	<a href="https://doi.org/10.18280/jesa.560517">https://doi.org/10.18280/jesa.560517</a>	Djelal, N., Ouanane, A., Bourriachi, F. (2023). LSTM-based visual control for complex robot interactions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 863-870. <a href="https://doi.org/10.18280/jesa.560517">https://doi.org/10.18280/jesa.560517</a>
158	Mutlak, A.F., Humaidi, A.J.	A Comparative Study of Synergetic and Sliding Mode Controllers for Pendulum Systems	synergetic control, sliding mode control, pendulum system, <i>chattering phenomenon, control design</i>	56, 5, 871-877	<a href="https://doi.org/10.18280/jesa.560518">https://doi.org/10.18280/jesa.560518</a>	Mutlak, A.F., Humaidi, A.J. (2023). A comparative study of synergetic and sliding mode controllers for pendulum systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 871-877. <a href="https://doi.org/10.18280/jesa.560518">https://doi.org/10.18280/jesa.560518</a>
159	Azzawi, H.A., Gitaffa, S.A., Ameen, N.M.	Performance and Robustness Enhancement of Fractional Order Controller (FOC) for Electric Vehicles (EV) Using Intelligent Swarms	fractional-order proportional-integral-derivative (FOPID), proportional-integral-derivative (PID), grey wolf optimization (GWO), particle swarm optimization (PSO), electric vehicles (EV), permanent magnet synchronous motors (PMSMs)	56, 5, 879-887	<a href="https://doi.org/10.18280/jesa.560519">https://doi.org/10.18280/jesa.560519</a>	Azzawi, H.A., Gitaffa, S.A., Ameen, N.M. (2023). Performance and robustness enhancement of fractional order controller (FOC) for electric vehicles (EV) using intelligent swarms. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 879-887. <a href="https://doi.org/10.18280/jesa.560519">https://doi.org/10.18280/jesa.560519</a>
160	Adegbenjo, A.A., Oniuri, E.E., Kalesanwo, O.B., Agbaje, M.O., Abel, S.B., Fatade, O.B., Amusa, A.I., Umeaka, K.C., Ehioghare, E., Onamade, K.O.	Design and Analysis of an Automated IoT System for Data Flow Optimization in Higher Education Institutions	Internet of Things (IoT), IoT framework, Kafka stream, data lake, advanced analytics, data visualization, automated systems, higher education institutions, real-time data processing	56, 5, 889-897	<a href="https://doi.org/10.18280/jesa.560520">https://doi.org/10.18280/jesa.560520</a>	Adegbenjo, A.A., Oniuri, E.E., Kalesanwo, O.B., Agbaje, M.O., Abel, S.B., Fatade, O.B., Amusa, A.I., Umeaka, K.C., Ehioghare, E., Onamade, K.O. (2023). Design and analysis of an automated IoT system for data flow optimization in higher education institutions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 5, pp. 889-897. <a href="https://doi.org/10.18280/jesa.560520">https://doi.org/10.18280/jesa.560520</a>

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162	Venkatesh, D.Y., Mallikarjuniah, K., Srikantaswamy, M.	A High-Throughput Reconfigurable LDPC Codec for Wide Band Digital Communications	low-density parity-check (LDPC), forward error rate (FER), bit error rate (BER), signal to noise ratio (SNR), codec design, error correction codes, reconfigurable parallel processing	56, 4, 529-538	<a href="https://doi.org/10.18280/jesa.560402">https://doi.org/10.18280/jesa.560402</a>	Venkatesh, D.Y., Mallikarjuniah, K., Srikantaswamy, M. (2023). A high-throughput reconfigurable LDPC codec for wide band digital communications. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 529-538. <a href="https://doi.org/10.18280/jesa.560402">https://doi.org/10.18280/jesa.560402</a>
163	Ibrahim, M.A., Alsammak, A.N.B.	Adaptive PID Control for 8/6 Switched Reluctance Motor Drive Based on BFO	switched reluctance motor, PID controller, speed control, optimization	56, 4, 539-546	<a href="https://doi.org/10.18280/jesa.560403">https://doi.org/10.18280/jesa.560403</a>	Ibrahim, M.A., Alsammak, A.N.B. (2023). Adaptive PID control for 8/6 switched reluctance motor drive based on BFO. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 539-546. <a href="https://doi.org/10.18280/jesa.560403">https://doi.org/10.18280/jesa.560403</a>
164	Alobaidy, M.A.A., Saeed, S.Z.	A Comparative Study of Multi-Layer Perceptron and Jordan Recurrent Neural Networks for Signals Classification in a Robotic System	error detection, classification, robot, Jordan, MLP-NN, DWT, RNN, signal	56, 4, 547-551	<a href="https://doi.org/10.18280/jesa.560404">https://doi.org/10.18280/jesa.560404</a>	Alobaidy, M.A.A., Saeed, S.Z. (2023). A comparative study of multi-layer perceptron and Jordan recurrent neural networks for signals classification in a robotic system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 547-551. <a href="https://doi.org/10.18280/jesa.560404">https://doi.org/10.18280/jesa.560404</a>
165	Dahdouh, A., Mazouz, L., Elotri, A., Youcefa, B.E.	Multivariable Filter-Based New Harmonic Voltage Identification for a 3-Level UPQC	harmonic voltage identification, multivariable filter, unified power quality conditioner (UPQC), space vector modulation, feedback linearization control	56, 4, 553-563	<a href="https://doi.org/10.18280/jesa.560405">https://doi.org/10.18280/jesa.560405</a>	Dahdouh, A., Mazouz, L., Elotri, A., Youcefa, B.E. (2023). Multivariable filter-based new harmonic voltage identification for a 3-level UPQC. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 553-563. <a href="https://doi.org/10.18280/jesa.560405">https://doi.org/10.18280/jesa.560405</a>
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167	Ahmed, A.K., Al-Khazraji, H.	Optimal Control Design for Propeller Pendulum Systems Using Gorilla Troops Optimization	nonlinear system, propeller pendulum system, PID controller, state feedback controller, sliding mode control, swarm optimization, gorilla troops optimization	56, 4, 575-582	<a href="https://doi.org/10.18280/jesa.560407">https://doi.org/10.18280/jesa.560407</a>	Ahmed, A.K., Al-Khazraji, H. (2023). Optimal control design for propeller pendulum systems using gorilla troops optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 575-582. <a href="https://doi.org/10.18280/jesa.560407">https://doi.org/10.18280/jesa.560407</a>
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169	Khather, S.I., Ibrahim, M.A., Abdullah, A.I.	Review and Performance Analysis of Nonlinear Model Predictive Control—Current Prospects, Challenges and Future Directions	nonlinear model predictive control, applications and performance analysis, nonlinear dynamics, control system, NMPC algorithms, applications	56, 4, 593-603	<a href="https://doi.org/10.18280/jesa.560409">https://doi.org/10.18280/jesa.560409</a>	Khather, S.I., Ibrahim, M.A., Abdullah, A.I. (2023). Review and performance analysis of nonlinear model predictive control—current prospects, challenges and future directions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 593-603. <a href="https://doi.org/10.18280/jesa.560409">https://doi.org/10.18280/jesa.560409</a>
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172	Adejumo, D.O., Fadare, D.A., Kazeem, R.A., Ikumapayi, O.M., Falana, A., Adedayo, A.S., Fadare, D.A., Adeoye, A.O.M., Ogundipe, A.T., Olarinde, E.S.	A Low-Cost, Modular, Cable-Driven, Anthropomorphic Robotic Hand: A Conceptual Design and Application in Biomimetic Study	biomimetic, anthropomorphic, robotic hand, automation, reinforcement learning	56, 4, 627-639	<a href="https://doi.org/10.18280/jesa.560412">https://doi.org/10.18280/jesa.560412</a>	Adejumo, D.O., Fadare, D.A., Kazeem, R.A., Ikumapayi, O.M., Falana, A., Adedayo, A.S., Fadare, D.A., Adeoye, A.O.M., Ogundipe, A.T., Olarinde, E.S. (2023). A low-cost, modular, cable-driven, anthropomorphic robotic hand: A conceptual design and application in biomimetic study. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 627-639. <a href="https://doi.org/10.18280/jesa.560412">https://doi.org/10.18280/jesa.560412</a>
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174	Mohammed, N.A., Abdulateef, O.F., Hamad, A.H.	An IoT and Machine Learning-Based Predictive Maintenance System for Electrical Motors	predictive maintenance, machine learning algorithm, Industrial IoT (IIoT), MQTT, cloud computing/platform, random forest, fault diagnosis/detection, prognostics and health management	56, 4, 651-656	<a href="https://doi.org/10.18280/jesa.560414">https://doi.org/10.18280/jesa.560414</a>	Mohammed, N.A., Abdulateef, O.F., Hamad, A.H. (2023). An IoT and machine learning-based predictive maintenance system for electrical motors. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 651-656. <a href="https://doi.org/10.18280/jesa.560414">https://doi.org/10.18280/jesa.560414</a>
175	Akande, S., Adetunla, A., Sanni, T., Azeez, T.	Conversion of Roadway Noise to Electrical Energy: An Innovative Approach for Sustainable Energy Generation	vibration, acoustic, automation, embedded system, energy conversion	56, 4, 657-661	<a href="https://doi.org/10.18280/jesa.560415">https://doi.org/10.18280/jesa.560415</a>	Akande, S., Adetunla, A., Sanni, T., Azeez, T. (2023). Conversion of roadway noise to electrical energy: An innovative approach for sustainable energy generation. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 657-661. <a href="https://doi.org/10.18280/jesa.560415">https://doi.org/10.18280/jesa.560415</a>
176	Obaid, M.H., Hamad, A.H.	Deep Learning Approach for Oil Pipeline Leakage Detection Using Image-Based Edge Detection Techniques	holistically-nested edge detection, Xception networks, leakage detection, oil pipes, dense extreme inception network for edge detection	56, 4, 663-673	<a href="https://doi.org/10.18280/jesa.560416">https://doi.org/10.18280/jesa.560416</a>	Obaid, M.H., Hamad, A.H. (2023). Deep learning approach for oil pipeline leakage detection using image-based edge detection techniques. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 663-673. <a href="https://doi.org/10.18280/jesa.560416">https://doi.org/10.18280/jesa.560416</a>

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179	Hutabarat, J., Pradana, J.A., Ruwana, I., Basuki, D.W.L., Sari, S.A., Septiari, R.	Ergonomic Chair Design as a Solution to Musculoskeletal Disorders among Traditional Cobblers: An Anthropometric Study	ergonomic chair, cobblers, musculoskeletal disorders, Nordic body maps, Rapid Upper Limb Assessment	56, 4, 697-701	<a href="https://doi.org/10.18280/jesa.560419">https://doi.org/10.18280/jesa.560419</a>	Hutabarat, J., Pradana, J.A., Ruwana, I., Basuki, D.W.L., Sari, S.A., Septiari, R. (2023). Ergonomic chair design as a solution to musculoskeletal disorders among traditional cobblers: An anthropometric study. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 4, pp. 697-701. <a href="https://doi.org/10.18280/jesa.560419">https://doi.org/10.18280/jesa.560419</a>
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184	Talib, M.M., Crook, M.S.	AI-Enhanced Power Management System for Buildings: A Review and Suggestions	power management systems, smart buildings, energy efficiency, AI, WSN, BIM	56, 3, 383-391	<a href="https://doi.org/10.18280/jesa.560304">https://doi.org/10.18280/jesa.560304</a>	Talib, M.M., Crook, M.S. (2023). AI-enhanced power management system for buildings: A review and suggestions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 383-391. <a href="https://doi.org/10.18280/jesa.560304">https://doi.org/10.18280/jesa.560304</a>
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186	Abdullah, H.J., Kareem, P.R., Algburi, S., Mohammed, A.B.	Predictive Current Control of Voltage Source Inverters Using a Discrete-Time Model	voltage source inverter, current control, dc link capacitor, low electromagnetic interference, control approach performs, low harmonic contents, AC electrical power, DC source	56, 3, 403-408	<a href="https://doi.org/10.18280/jesa.560306">https://doi.org/10.18280/jesa.560306</a>	Abdullah, H.J., Kareem, P.R., Algburi, S., Mohammed, A.B. (2023). Predictive current control of voltage source inverters using a discrete-time model. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 403-408. <a href="https://doi.org/10.18280/jesa.560306">https://doi.org/10.18280/jesa.560306</a>
187	Al-Saadi, M., Mahafzah, K.A., Hatmi, A.	Improved Frequency Response of Parallel Virtual Synchronous Generators Using Grey Wolf Optimization	virtual synchronous machines, parallel inverters, grey-wolf optimization, frequency, synchronous inverters, metaheuristic optimization, overshoot, response	56, 3, 409-414	<a href="https://doi.org/10.18280/jesa.560307">https://doi.org/10.18280/jesa.560307</a>	Al-Saadi, M., Mahafzah, K.A., Hatmi, A. (2023). Improved frequency response of parallel Virtual Synchronous Generators using Grey Wolf Optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 409-414. <a href="https://doi.org/10.18280/jesa.560307">https://doi.org/10.18280/jesa.560307</a>
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189	Ibrahim, M.A., Ibrahim, M.H., Khather, S.I.	Design of Fuzzy-ACO Based Controller for Cuk Converter in Electric Vehicles	Cuk converter, intelligent control, fuzzy control, ant colony optimization, electric vehicle, switched-mode power supply	56, 3, 425-430	<a href="https://doi.org/10.18280/jesa.560309">https://doi.org/10.18280/jesa.560309</a>	Ibrahim, M.A., Ibrahim, M.H., Khather, S.I. (2023). Design of fuzzy-ACO based controller for Cuk converter in electric vehicles. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 425-430. <a href="https://doi.org/10.18280/jesa.560309">https://doi.org/10.18280/jesa.560309</a>
190	Kethiri, M.F., Charrouf, O.	A Methodology for Fault Tolerant Control of Brushless DC Motors with Damaged Hall-Effect Sensors Using Electronic Logic Gates	BLDC, fault tolerant control, hall effect sensor, speed control, electronic logic gates, Matlab/Simulink	56, 3, 431-435	<a href="https://doi.org/10.18280/jesa.560310">https://doi.org/10.18280/jesa.560310</a>	Kethiri, M.F., Charrouf, O. (2023). A methodology for fault tolerant control of brushless DC motors with damaged hall-effect sensors using electronic logic gates. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 431-435. <a href="https://doi.org/10.18280/jesa.560310">https://doi.org/10.18280/jesa.560310</a>
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192	AL-Hussainy, S., Altahir, A.A.R., AL-Gaheeshi, A.	Proposal of Coastal Flooding Scheme Using Smart Balloon Powered by Wind Turbine Generator	coastal flood mitigation, wind turbine generator, air compressor, rechargeable battery, DC motor control, smart balloon system, classical control scenarios, MATLAB simulation	56, 3, 451-458	<a href="https://doi.org/10.18280/jesa.560312">https://doi.org/10.18280/jesa.560312</a>	AL-Hussainy, S., Altahir, A.A.R., AL-Gaheeshi, A. (2023). Proposal of coastal flooding scheme using smart balloon powered by wind turbine generator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 451-458. <a href="https://doi.org/10.18280/jesa.560312">https://doi.org/10.18280/jesa.560312</a>

193	Ghلام, K., Oukli, M.	Performance Analysis of Rotary Electromagnetic Micromotors Across Different Size and Weight Scales	micromotors, miromachines, MEMS, microfabrication, Market micromotor, rotatory electromagnetic micromotor. <i>performance analysis</i>	56, 3, 459-463	<a href="https://doi.org/10.18280/jesa.560313">https://doi.org/10.18280/jesa.560313</a>	Ghلام, K., Oukli, M. (2023). Performance analysis of rotary electromagnetic micromotors across different size and weight scales. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 459-463. <a href="https://doi.org/10.18280/jesa.560313">https://doi.org/10.18280/jesa.560313</a>
194	Moghrani, R., Aoulmi, Z., Attia, M.	Hybrid RPI-MCDM Approach for FMEA: A Case Study on Belt Conveyor in Bir El Ater Mine, Algeria	failure mode and effects analysis (FMEA), risk priority index function (RPI), risk priority number (RPN), multiple criteria decision making (MCDM), technique for order preference by similarity to ideal solution (TOPSIS), <i>mining machine</i>	56, 3, 465-473	<a href="https://doi.org/10.18280/jesa.560314">https://doi.org/10.18280/jesa.560314</a>	Moghrani, R., Aoulmi, Z., Attia, M. (2023). Hybrid RPI-MCDM approach for FMEA: A case study on belt conveyor in Bir El Ater Mine, Algeria. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 465-473. <a href="https://doi.org/10.18280/jesa.560314">https://doi.org/10.18280/jesa.560314</a>
195	Azzawi, H.A., Ameen, N.M., Gitaffa, S.A.	Comparative Performance Evaluation of Swarm Intelligence-Based FOPID Controllers for PMSM Speed Control	fractional-order proportional-integral-derivative (FOPID), proportional-integral-derivative (PID), permanent magnet synchronous motors (PMSMs), mGrey wolf optimization (GWO), ant colony optimization (ACO), particle swarm optimization (PSO)	56, 3, 475-482	<a href="https://doi.org/10.18280/jesa.560315">https://doi.org/10.18280/jesa.560315</a>	Azzawi, H.A., Ameen, N.M., Gitaffa, S.A. (2023). Comparative performance evaluation of swarm intelligence-based FOPID controllers for PMSM speed control. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 475-482. <a href="https://doi.org/10.18280/jesa.560315">https://doi.org/10.18280/jesa.560315</a>
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200	Syed, K., Chekka, R.K.	Hybrid PSO-HHO Optimal Control for Power Quality Improvement in Autonomous Microgrids	PSO, HHO, microgrid, optimal, THD	56, 3, 513-517	<a href="https://doi.org/10.18280/jesa.560320">https://doi.org/10.18280/jesa.560320</a>	Syed, K., Chekka, R.K. (2023). Hybrid PSO-HHO optimal control for power quality improvement in autonomous microgrids. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 56, No. 3, pp. 513-517. <a href="https://doi.org/10.18280/jesa.560320">https://doi.org/10.18280/jesa.560320</a>
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247	Karim, M.I., Hashim, A.A.A., Ghani, N.M.A.	Control of Double Link Flexible Robotic Manipulator System	Double Link, Fuzzy Logic Control, PID Control, Simscape, Solidworks	55, 6, 759-763	<a href="https://doi.org/10.18280/jesa.550607">https://doi.org/10.18280/jesa.550607</a>	Karim, M.I., Hashim, A.A.A., Ghani, N.M.A. (2022). Control of double link flexible robotic manipulator system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 6, pp. 759-763. <a href="https://doi.org/10.18280/jesa.550607">https://doi.org/10.18280/jesa.550607</a>
248	Adetunla, A.O., Kolade, O., Adeoye, A.M., Akande, S.	Development of a Prototype Sensory Device as a Substitute for Single Sided Deaf People in Developing Nations	binaural test, localizer, microcontroller, sensors, unilaterally deaf, white noise	55, 6, 765-769	<a href="https://doi.org/10.18280/jesa.550608">https://doi.org/10.18280/jesa.550608</a>	Adetunla, A.O., Kolade, O., Adeoye, A.M., Akande, S. (2022). Development of a prototype sensory device as a substitute for single sided deaf people in developing nations. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 6, pp. 765-769. <a href="https://doi.org/10.18280/jesa.550608">https://doi.org/10.18280/jesa.550608</a>
249	Mahdi, M.A., Gittaffa, S.A., Issa, A.H.	Multiple Fault Detection and Smart Monitoring System Based on Machine Learning Classifiers for Infant Incubators Using Raspberry Pi 4	fault detection, infant incubator, Raspberry Pi 4, decision tree (DT), support vector machine (SVM), neural network (NN)	55, 6, 771-778	<a href="https://doi.org/10.18280/jesa.550609">https://doi.org/10.18280/jesa.550609</a>	Mahdi, M.A., Gittaffa, S.A., Issa, A.H. (2022). Multiple fault detection and smart monitoring system based on machine learning classifiers for infant incubators using raspberry pi 4. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 6, pp. 771-778. <a href="https://doi.org/10.18280/jesa.550609">https://doi.org/10.18280/jesa.550609</a>
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251	Mansour, K., Elkhoully, M., Kassem, S., Fahim, I.	Novel Integrated Framework for ERP Selection and Implementation	SMEs, ERP, selection, implementation	55, 6, 787-792	<a href="https://doi.org/10.18280/jesa.550611">https://doi.org/10.18280/jesa.550611</a>	Mansour, K., Elkhoully, M., Kassem, S., Fahim, I. (2022). Novel integrated framework for ERP selection and implementation. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 6, pp. 787-792. <a href="https://doi.org/10.18280/jesa.550611">https://doi.org/10.18280/jesa.550611</a>
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255	Saadi, S.I., Mohammed, I.K.	Power Control Approach for PV Panel System Based on PSO and INC Optimization Algorithms	renewable energy, PV stand-alone system, solar PV panel, boost converter, off-grid	55, 6, 825-834	<a href="https://doi.org/10.18280/jesa.550615">https://doi.org/10.18280/jesa.550615</a>	Saadi, S.I., Mohammed, I.K. (2022). Power control approach for PV panel system based on PSO and INC optimization algorithms. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 6, pp. 825-834. <a href="https://doi.org/10.18280/jesa.550615">https://doi.org/10.18280/jesa.550615</a>
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258	Bommisetty, S.R., Chettu, K.B., Hanumanthappa, S.N.	Study and Experimental Investigation of the Effect of Progressive Feed Rate on Surface Roughness in CNC End Milling Process Using RSM	ANOVA, end milling, progressive feed, RSM, surface roughness, Taguchi	55, 5, 581-591	<a href="https://doi.org/10.18280/jesa.550503">https://doi.org/10.18280/jesa.550503</a>	Bommisetty, S.R., Chettu, K.B., Hanumanthappa, S.N. (2022). Study and experimental investigation of the effect of progressive feed rate on surface roughness in CNC end milling process using RSM. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 5, pp. 581-591. <a href="https://doi.org/10.18280/jesa.550503">https://doi.org/10.18280/jesa.550503</a>
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261	Abdullah, F.S., Mohammed, R.A., Hameed, F.I.	Thermal Design Developing for Steam Power Plants by Using Concentrating Solar Power (CSP) Technologies	CSP, solar, collector, thermal design	55, 5, 615-621	<a href="https://doi.org/10.18280/jesa.550506">https://doi.org/10.18280/jesa.550506</a>	Abdullah, F.S., Mohammed, R.A., Hameed, F.I. (2022). Thermal design developing for steam power plants by using Concentrating Solar Power (CSP) technologies. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 5, pp. 615-621. <a href="https://doi.org/10.18280/jesa.550506">https://doi.org/10.18280/jesa.550506</a>
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265	Thanh, B.T., Trung, N.K.	Study Comparison Between Enhanced Firefly and Differential Evolution to Solve the Maximum Power Point Tracking Problem	order reduction algorithm, angle of attack, aircraft, optimal controller	55, 5, 649-655	<a href="https://doi.org/10.18280/jesa.550510">https://doi.org/10.18280/jesa.550510</a>	Thanh, B.T., Trung, N.K. (2022). Using the model reduction techniques to find the low-order controller of the aircraft's angle of attack control system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 5, pp. 649-655. <a href="https://doi.org/10.18280/jesa.550510">https://doi.org/10.18280/jesa.550510</a>
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269	Bharadwaj, D., Dutt, D.	Simulation of Reinforcement Learning Algorithm for Motion Control of an Autonomous Humanoid	Markov decision process (MDP), reinforcement learning agents (RL), transition probabilities, reward	55, 5, 679-685	<a href="https://doi.org/10.18280/jesa.550514">https://doi.org/10.18280/jesa.550514</a>	Bharadwaj, D., Dutt, D. (2022). Simulation of reinforcement learning algorithm for motion control of an autonomous humanoid. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 5, pp. 679-685. <a href="https://doi.org/10.18280/jesa.550514">https://doi.org/10.18280/jesa.550514</a>
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279	Tayyeh, I.F., Ali, H.I.	Full State Feedback H-Infinity Controller Design for Nonlinear Systems	nonlinear systems, H-infinity, state feedback, black hole optimization, robust control	55, 4, 503-509	<a href="https://doi.org/10.18280/jesa.550409">https://doi.org/10.18280/jesa.550409</a>	Tayyeh, I.F., Ali, H.I. (2022). Full state feedback H-infinity controller design for nonlinear systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 4, pp. 503-509. <a href="https://doi.org/10.18280/jesa.550409">https://doi.org/10.18280/jesa.550409</a>
280	Li, H., Tian, L.X., Zhao, L., Wang, B.	Modeling and Grid-Connected Control of Wind-Solar-Storage Combined Power Generation System	wind power, photovoltaic arrays, battery, modeling and simulation	55, 4, 511-517	<a href="https://doi.org/10.18280/jesa.550410">https://doi.org/10.18280/jesa.550410</a>	Li, H., Tian, L.X., Zhao, L., Wang, B. (2022). Modeling and grid-connected control of wind-solar-storage combined power generation system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 4, pp. 511-517. <a href="https://doi.org/10.18280/jesa.550410">https://doi.org/10.18280/jesa.550410</a>
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282	Ali, H.M., Karash, E.T., Elias, M.T.	Study the Machining Accuracy in Hole Reaming of Medium Carbon Steel Using Ultrasonic Vibration Method	ultrasonic vibration, reaming, surface roughness, circular degree	55, 4, 527-533	<a href="https://doi.org/10.18280/jesa.550412">https://doi.org/10.18280/jesa.550412</a>	Ali, H.M., Karash, E.T., Elias, M.T. (2022). Study the machining accuracy in hole reaming of medium carbon steel using ultrasonic vibration method. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 4, pp. 527-533. <a href="https://doi.org/10.18280/jesa.550412">https://doi.org/10.18280/jesa.550412</a>
283	Olujimi, A., Aaron, I., Adebayo, O., Afolarin, A., Jonathan, E.	Smart Solar Powered Irrigation System	irrigation system, internet of things (IoT), microcontroller, moisture level, solar powered	55, 4, 535-540	<a href="https://doi.org/10.18280/jesa.550413">https://doi.org/10.18280/jesa.550413</a>	Olujimi, A., Aaron, I., Adebayo, O., Afolarin, A., Jonathan, E. (2022). Smart solar powered irrigation system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 4, pp. 535-540. <a href="https://doi.org/10.18280/jesa.550413">https://doi.org/10.18280/jesa.550413</a>
284	Husain, S.S., MohammadRidha, T.	Integral Sliding Mode Control for Seismic Effect Regulation on Buildings Using ATMD and MRD	active control, semi active control, ATMD, MRD, seismic effect, integral sliding mode, integral sliding mode control with barrier function, earthquake vibration	55, 4, 541-548	<a href="https://doi.org/10.18280/jesa.550414">https://doi.org/10.18280/jesa.550414</a>	Husain, S.S., MohammadRidha, T. (2022). Integral sliding mode control for seismic effect regulation on buildings using ATMD and MRD. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 4, pp. 541-548. <a href="https://doi.org/10.18280/jesa.550414">https://doi.org/10.18280/jesa.550414</a>
285	Ha, V.T.	Backstepping-Sliding Mode Control Combined with Load Torque Neural Network Observer for a Two – Mass System	backstepping, sliding mode control, neural network, two-mass system, FOC, NN-observer, TMS	55, 4, 549-554	<a href="https://doi.org/10.18280/jesa.550415">https://doi.org/10.18280/jesa.550415</a>	Ha, V.T. (2022). Backstepping-sliding mode control combined with load torque neural network observer for a two – mass system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 4, pp. 549-554. <a href="https://doi.org/10.18280/jesa.550415">https://doi.org/10.18280/jesa.550415</a>
286	Euldji, R., Batel, N., Rebhi, R., Lorenzini, G., Jarasthikulchai, N., Menni, Y., Ahmad, H., Ameer, H., Sudsutad, W.	Optimal Design and Performance Comparison of a Combined ANFIS-PID with Back Stepping Technique, Using Various Meta-Heuristic Algorithms to Solve Wheeled Mobile Robot Trajectory Tracking Problem	wheeled mobile robot (WMR), trajectory tracking, back-stepping, proportional integral derivative controller (PID), adaptive neuro-fuzzy inference system (ANFIS), meta-heuristics	55, 3, 281-298	<a href="https://doi.org/10.18280/jesa.550301">https://doi.org/10.18280/jesa.550301</a>	Euldji, R., Batel, N., Rebhi, R., Lorenzini, G., Jarasthikulchai, N., Menni, Y., Ahmad, H., Ameer, H., Sudsutad, W. (2022). Optimal design and performance comparison of a combined ANFIS-PID with back stepping technique, using various meta-heuristic algorithms to solve wheeled mobile robot trajectory tracking problem. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 3, pp. 281-298. <a href="https://doi.org/10.18280/jesa.550301">https://doi.org/10.18280/jesa.550301</a>
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288	Dahdouh, A., Mazouz, L., Youcefa, B.E.	A Conceptual Design of a Vision-Based Fire Fighting Robot for Smart City Application	harmonic extraction, photovoltaic generator (PVG), unified power quality conditioner (UPQC), feedback linearisation controller (FLC), space vector modulation (SVM), power quality enhancement	55, 3, 307-322	<a href="https://doi.org/10.18280/jesa.550303">https://doi.org/10.18280/jesa.550303</a>	Dahdouh, A., Mazouz, L., Youcefa, B.E. (2022). PIL implementation of feedback linearisation-SVM control of 3-phase multifunctional grid-tied solar PV integrated UPQC. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 3, pp. 307-322. <a href="https://doi.org/10.18280/jesa.550303">https://doi.org/10.18280/jesa.550303</a>

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290	Abedulabbas, G.W., Yaseen, F.R.	Design a PI Controller Based on PSO and GWO for a Brushless DC Motor	brushless direct current (BLDC) motor, proportional-integral (PI) controller, particle swarm optimization (PSO), grey wolf optimization (GWO)	55, 3, 331-338	<a href="https://doi.org/10.18280/jesa.550305">https://doi.org/10.18280/jesa.550305</a>	Abedulabbas, G.W., Yaseen, F.R. (2022). Design a PI controller based on PSO and GWO for a brushless DC motor. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 3, pp. 331-338. <a href="https://doi.org/10.18280/jesa.550305">https://doi.org/10.18280/jesa.550305</a>
291	Yosif, Z.M., Mahmood, B.S., Saeed, S.Z.	Artificial Techniques Based on Neural Network and Fuzzy Logic Combination Approach for Avoiding Dynamic Obstacles	dynamic obstacle avoidance, fuzzy logic, neural network, mobile robot navigation, path planning	55, 3, 339-348	<a href="https://doi.org/10.18280/jesa.550306">https://doi.org/10.18280/jesa.550306</a>	Yosif, Z.M., Mahmood, B.S., Saeed, S.Z. (2022). Artificial techniques based on neural network and fuzzy logic combination approach for avoiding dynamic obstacles. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 3, pp. 339-348. <a href="https://doi.org/10.18280/jesa.550306">https://doi.org/10.18280/jesa.550306</a>
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298	Abed, M.S., Lutfy, O.F., Al-Doori, Q.F.	Online Path Planning of Mobile Robots Based on African Vultures Optimization Algorithm in Unknown Environments	APSO, AVOA, path planning, mobile robot, obstacle avoidance	55, 3, 405-412	<a href="https://doi.org/10.18280/jesa.550313">https://doi.org/10.18280/jesa.550313</a>	Abed, M.S., Lutfy, O.F., Al-Doori, Q.F. (2022). Online path planning of mobile robots based on African vultures optimization algorithm in unknown environments. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 3, pp. 405-412. <a href="https://doi.org/10.18280/jesa.550313">https://doi.org/10.18280/jesa.550313</a>
299	Shivakumar, P., Barik S.K.	Implementation of SVM Based Multi-Level Inverter for Grid Connected PV System	photovoltaic (PV), 51 level multi-level inverter, total harmonic distortion (THD)	55, 3, 413-418	<a href="https://doi.org/10.18280/jesa.550314">https://doi.org/10.18280/jesa.550314</a>	Shivakumar, P., Barik S.K. (2022). Implementation of SVM based multi-level inverter for grid connected PV system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 3, pp. 413-418. <a href="https://doi.org/10.18280/jesa.550314">https://doi.org/10.18280/jesa.550314</a>
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301	Gonza, M., Alla, H., Bitjoka, L.	Structural Design of Supreme Controller with Uncontrollable Transitions	discrete event system, controllability, petri net, maximally permissive, reachability graph, supervisory control	55, 2, 155-164	<a href="https://doi.org/10.18280/jesa.550201">https://doi.org/10.18280/jesa.550201</a>	Gonza, M., Alla, H., Bitjoka, L. (2022). Structural design of supreme controller with uncontrollable transitions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 155-164. <a href="https://doi.org/10.18280/jesa.550201">https://doi.org/10.18280/jesa.550201</a>
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303	Moorthy, B.K., Dhal, P.K.	Adaptive Neuro Fuzzy Inference System Based Intelligent Control for Grid Connected Hybrid Energy System with Improved SEPIC Converter	HRES, DQ theory, ANFIS, VSI, PMSG, MPPT	55, 2, 171-179	<a href="https://doi.org/10.18280/jesa.550203">https://doi.org/10.18280/jesa.550203</a>	Moorthy, B.K., Dhal, P.K. (2022). Adaptive neuro fuzzy inference system based intelligent control for grid connected hybrid energy system with improved SEPIC converter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 171-179. <a href="https://doi.org/10.18280/jesa.550203">https://doi.org/10.18280/jesa.550203</a>
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309	Ghlib, I., Messlem, Y., Chedjara, Z.	An Improved Sensorless Control of Induction Motor Using ADALINE: Theory and Experiment	ADALINE, artificial neural network, induction motor, intelligent controller, Luenberger, sensorless control	55, 2, 221-227	<a href="https://doi.org/10.18280/jesa.550209">https://doi.org/10.18280/jesa.550209</a>	Ghlib, I., Messlem, Y., Chedjara, Z. (2022). An improved sensorless control of induction motor using ADALINE: Theory and experiment. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 221-227. <a href="https://doi.org/10.18280/jesa.550209">https://doi.org/10.18280/jesa.550209</a>
310	Jamil, A., Baharom, M.B., Abd Aziz, A.R.B.	In-Cylinder Cold-Flow Analysis - 'A Comparison of Crank-Slider Engine and Crank-Rocker Engine'	CAD model, CFD analysis, crank-rocker, flow analysis, visualization	55, 2, 229-236	<a href="https://doi.org/10.18280/jesa.550210">https://doi.org/10.18280/jesa.550210</a>	Jamil, A., Baharom, M.B., Abd Aziz, A.R.B. (2022). In-cylinder cold-flow analysis - 'a comparison of crank-slider engine and crank-rocker engine'. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 229-236. <a href="https://doi.org/10.18280/jesa.550210">https://doi.org/10.18280/jesa.550210</a>
311	Abdelaziz, A., El Moundher, A., Dhaouadi, G.	Efficient Neuro-Fuzzy Identification Model for Electrocardiogram Signal	nonlinear systems, ECG signal, fuzzy inference models, neural networks, neuro-fuzzy systems	55, 2, 237-244	<a href="https://doi.org/10.18280/jesa.550211">https://doi.org/10.18280/jesa.550211</a>	Abdelaziz, A., El Moundher, A., Dhaouadi, G. (2022). Efficient neuro-fuzzy identification model for electrocardiogram signal. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 237-244. <a href="https://doi.org/10.18280/jesa.550211">https://doi.org/10.18280/jesa.550211</a>
312	Chatterjee, S.	Fault Detection for a Nonlinear Switched Continuous Time Delayed System Using Machine Learning and Self-Switched UKF	estimation error, hybrid system, noise, PPCA, SVM, three tank system, time delayed estimator	55, 2, 245-251	<a href="https://doi.org/10.18280/jesa.550212">https://doi.org/10.18280/jesa.550212</a>	Chatterjee, S. (2022). Fault detection for a nonlinear switched continuous time delayed system using machine learning and self-switched UKF. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 245-251. <a href="https://doi.org/10.18280/jesa.550212">https://doi.org/10.18280/jesa.550212</a>
313	Suhail, J., Rijab, K.Sh.	Wireless Sensor Network Based on Kalman Filter	SDN, K-mean, Leach protocol, NRF24, ESP32, Arduino	55, 2, 253-257	<a href="https://doi.org/10.18280/jesa.550213">https://doi.org/10.18280/jesa.550213</a>	Suhail, J., Rijab, K.Sh. (2022). Wireless sensor network based on Kalman filter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 253-257. <a href="https://doi.org/10.18280/jesa.550213">https://doi.org/10.18280/jesa.550213</a>
314	Messaoud, M.	Comparative Functional Analysis of Three MPPT Techniques Applied on a Stand-Alone Photovoltaic System with a Charging Battery	drift phenomenon, dynamic state-space averaging model, fuzzy logic, incremental conductance (Inc-Cond), linearization, perturbation and observation (P&O), PID controller, Taylor expansion series	55, 2, 259-266	<a href="https://doi.org/10.18280/jesa.550214">https://doi.org/10.18280/jesa.550214</a>	Messaoud, M. (2022). Comparative functional analysis of three MPPT techniques applied on a stand-alone photovoltaic system with a charging battery. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 259-266. <a href="https://doi.org/10.18280/jesa.550214">https://doi.org/10.18280/jesa.550214</a>
315	Zhu, C., Jiang, F.C., Tang, Y.L.	Joint Scheduling of Charging and Service Operation of Electric Taxi Based on Reinforcement Learning	charging scheduling, electric taxi, reinforcement learning, service operation scheduling	55, 2, 267-272	<a href="https://doi.org/10.18280/jesa.550215">https://doi.org/10.18280/jesa.550215</a>	Zhu, C., Jiang, F.C., Tang, Y.L. (2022). Joint scheduling of charging and service operation of electric taxi based on reinforcement learning. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 2, pp. 267-272. <a href="https://doi.org/10.18280/jesa.550215">https://doi.org/10.18280/jesa.550215</a>
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322	Abed, M.S., Lutfy, O.F., Al-Doori, Q.F.	Online Optimization Application on Path Planning in Unknown Environments	GWO, MGWO, path planning, mobile robot, obstacle avoidance	55, 1, 61-69	<a href="https://doi.org/10.18280/jesa.550106">https://doi.org/10.18280/jesa.550106</a>	Abed, M.S., Lutfy, O.F., Al-Doori, Q.F. (2022). Online optimization application on path planning in unknown environments. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 1, pp. 61-69. <a href="https://doi.org/10.18280/jesa.550106">https://doi.org/10.18280/jesa.550106</a>
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330	Benabbas, A., Zaidi, E., Abdessemed, R.	Sliding Mode Control of a Wind Power System Based on a Self-Excited Asynchronous Generator	asynchronous cage generator, wind turbine, sliding mode control, rectifier	55, 1, 131-137	<a href="https://doi.org/10.18280/jesa.550114">https://doi.org/10.18280/jesa.550114</a>	Benabbas, A., Zaidi, E., Abdessemed, R. (2022). Sliding mode control of a wind power system based on a self-excited asynchronous generator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 1, pp. 131-137. <a href="https://doi.org/10.18280/jesa.550114">https://doi.org/10.18280/jesa.550114</a>
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332	Merdj, F., Drid, S.	Electromagnetic Forces Effects of MHD Micropump on the Blood Movement	biomedical microsystems, micropumps, magnetohydrodynamic (MHD), DC MHD, Lorentz force	55, 1, 147-153	<a href="https://doi.org/10.18280/jesa.550116">https://doi.org/10.18280/jesa.550116</a>	Merdj, F., Drid, S. (2022). Electromagnetic forces effects of MHD micropump on the blood movement. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 55, No. 1, pp. 147-153. <a href="https://doi.org/10.18280/jesa.550116">https://doi.org/10.18280/jesa.550116</a>
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342	Elbachir, K.M., Ahmed, A.	Artificial Neural Networks Direct Torque Control of Single Inverter Feed Two Induction Motors	artificial neural networks, DTC, induction motor, master slave control, NPC single inverter	54, 6, 881-889	<a href="https://doi.org/10.18280/jesa.540610">https://doi.org/10.18280/jesa.540610</a>	Elbachir, K.M., Ahmed, A. (2021). Artificial neural networks direct torque control of single inverter feed two induction motors. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 54, No. 6, pp. 881-889. <a href="https://doi.org/10.18280/jesa.540610">https://doi.org/10.18280/jesa.540610</a>
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370	Bedhief, A.O.	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines	hybrid flow shop scheduling, dedicated machines, mixed-integer programming, constraint programming, Cplex, CP optimizer	54, 4, 591-597	<a href="https://doi.org/10.18280/jesa.540408">https://doi.org/10.18280/jesa.540408</a>	Bedhief, A.O. (2021). Comparing mixed-integer programming and constraint programming models for the hybrid flow shop scheduling problem with dedicated machines. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 54, No. 4, pp. 591-597. <a href="https://doi.org/10.18280/jesa.540408">https://doi.org/10.18280/jesa.540408</a>
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376	Gupta, M.K., Kumar, R., Verma, V., Sharma, A.	Robust Control Based Stability Analysis and Trajectory Tracking of Triple Link Robot Manipulator	triple link manipulator, Euler Lagrange, robust control, Lyapunov analysis	54, 4, 641-647	<a href="https://doi.org/10.18280/jesa.540414">https://doi.org/10.18280/jesa.540414</a>	Gupta, M.K., Kumar, R., Verma, V., Sharma, A. (2021). Robust control based stability analysis and trajectory tracking of triple link robot manipulator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 54, No. 4, pp. 641-647. <a href="https://doi.org/10.18280/jesa.540414">https://doi.org/10.18280/jesa.540414</a>
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404	Khan, A., Thakur, U.N.	A Design of Supplementary Controller for UPFC to Improve Damping of Inter-Area Oscillations	controller, damping, lead lag compensator, oscillation, pulse width modulation, unified power flow controller, UPFC	54, 2, 303-308	<a href="https://doi.org/10.18280/jesa.540212">https://doi.org/10.18280/jesa.540212</a>	Khan, A., Thakur, U.N. (2021). A design of supplementary controller for UPFC to improve damping of inter-area oscillations. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 54, No. 2, pp. 303-308. <a href="https://doi.org/10.18280/jesa.540212">https://doi.org/10.18280/jesa.540212</a>
405	Saeed, M.M., Al Sarraf, Z.S.	Using Artificial Neural Networks to Predict the Effect of Input Parameters on Weld Bead Geometry for SAW Process	ANN, back propagation, welding, input process parameters, bead geometry	54, 2, 309-315	<a href="https://doi.org/10.18280/jesa.540213">https://doi.org/10.18280/jesa.540213</a>	Saeed, M.M., Al Sarraf, Z.S. (2021). Using artificial neural networks to predict the effect of input parameters on weld bead geometry for SAW process. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 54, No. 2, pp. 309-315. <a href="https://doi.org/10.18280/jesa.540213">https://doi.org/10.18280/jesa.540213</a>
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433	Yahiaoui, A., Iffouzar, K., Ghedamsi, K., Himour, K.	Dynamic Performance Analysis of VSC-HVDC Based Modular Multilevel Converter under Fault	high voltage direct current, voltage source converter, modular multilevel converter, vector oriented control, AC fault	54, 1, 187-194	<a href="https://doi.org/10.18280/jesa.540121">https://doi.org/10.18280/jesa.540121</a>	Yahiaoui, A., Iffouzar, K., Ghedamsi, K., Himour, K. (2021). Dynamic performance analysis of VSC-HVDC based modular multilevel converter under fault. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 54, No. 1, pp. 187-194. <a href="https://doi.org/10.18280/jesa.540121">https://doi.org/10.18280/jesa.540121</a>
434	Chiarello, E., Malagoli, J.A.	Optimal coil design of an electromagnetic actuator using particle swarm optimization	electromagnetic actuator, magnetic bearing, magnetic levitation, finite element method, particle swarm optimization	53, 6, 755-761	<a href="https://doi.org/10.18280/jesa.530601">https://doi.org/10.18280/jesa.530601</a>	Chiarello, E., Malagoli, J.A. (2020). Optimal coil design of an electromagnetic actuator using particle swarm optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 755-761. <a href="https://doi.org/10.18280/jesa.530601">https://doi.org/10.18280/jesa.530601</a>
435	Koussaila, I., Lyes, K., Himour, K., Abdelhakim, D., Azeddine, H., Kaci, G., Fouad, B.M.	Impact of polyphase induction motor on photovoltaic water pumping system	photovoltaic pumping system, multiphase induction machine, fuzzy logic controller, battery storage	53, 6, 763-770	<a href="https://doi.org/10.18280/jesa.530602">https://doi.org/10.18280/jesa.530602</a>	Koussaila, I., Lyes, K., Himour, K., Abdelhakim, D., Azeddine, H., Kaci, G., Fouad, B.M. (2020). Impact of polyphase induction motor on photovoltaic water pumping system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 763-770. <a href="https://doi.org/10.18280/jesa.530602">https://doi.org/10.18280/jesa.530602</a>
436	Gao, Y.H., Lou, W.D., Lu, H.L., Jia, Y.H.	Consensus control of multi-agent robot system with state delay based on fractional-order iterative learning control algorithm	multi-agent robot system, fractional-order iterative learning control (FOILC), state delay, consensus control	53, 6, 771-779	<a href="https://doi.org/10.18280/jesa.530603">https://doi.org/10.18280/jesa.530603</a>	Gao, Y.H., Lou, W.D., Lu, H.L., Jia, Y.H. (2020). Consensus control of multi-agent robot system with state delay based on fractional-order iterative learning control algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 771-779. <a href="https://doi.org/10.18280/jesa.530603">https://doi.org/10.18280/jesa.530603</a>
437	Abdullatif, N., Kassem, S.	Modelling of agent-based vehicle routing problem using unified modelling language	agent-based modelling, UML modelling, VRP	53, 6, 781-789	<a href="https://doi.org/10.18280/jesa.530604">https://doi.org/10.18280/jesa.530604</a>	Abdullatif, N., Kassem, S. (2020). Modelling of agent-based vehicle routing problem using unified modelling language. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 781-789. <a href="https://doi.org/10.18280/jesa.530604">https://doi.org/10.18280/jesa.530604</a>
438	Aramesh, S., Ghorbanian, A.	Multi-objective optimization for a complex intersection using design of experiments and simulation	traffic in urban areas, simulation, multi-objective, design of experiments	53, 6, 791-802	<a href="https://doi.org/10.18280/jesa.530605">https://doi.org/10.18280/jesa.530605</a>	Aramesh, S., Ghorbanian, A. (2020). Multi-objective optimization for a complex intersection using design of experiments and simulation. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 791-802. <a href="https://doi.org/10.18280/jesa.530605">https://doi.org/10.18280/jesa.530605</a>
439	Li, K., Li, D., Wu, D.Q.	Multi-objective optimization for location-routing-inventory problem in cold chain logistics network with soft time window constraint	cold chain logistics network (CCLN), location-routing-inventory problem (LRIP), soft time window constraint (STW), multi-objective ant colony optimization (MACO)	53, 6, 803-809	<a href="https://doi.org/10.18280/jesa.530606">https://doi.org/10.18280/jesa.530606</a>	Li, K., Li, D., Wu, D.Q. (2020). Multi-objective optimization for location-routing-inventory problem in cold chain logistics network with soft time window constraint. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 803-809. <a href="https://doi.org/10.18280/jesa.530606">https://doi.org/10.18280/jesa.530606</a>
440	Babes, B., Boutaghane, A., Hamouda, N., Kahla, S., Kellai, H., Ellinger, T., Petzoldt, J.	New optimal control of permanent magnet DC motor for photovoltaic wire feeder systems	solar photovoltaic (PV) module, wire feeder systems (WFSs), DC-DC buck converter, MPPT control, FO-Fuzzy PID controller, particle swarm optimization (PSO) algorithm	53, 6, 811-823	<a href="https://doi.org/10.18280/jesa.530607">https://doi.org/10.18280/jesa.530607</a>	Babes, B., Boutaghane, A., Hamouda, N., Kahla, S., Kellai, H., Ellinger, T., Petzoldt, J. (2020). New optimal control of permanent magnet DC motor for photovoltaic wire feeder systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 811-823. <a href="https://doi.org/10.18280/jesa.530607">https://doi.org/10.18280/jesa.530607</a>
441	Al-Shuka, H.F.N.	Proxy-based sliding mode vibration control with an adaptive approximation compensator for euler-bernoulli smart beams	proxy-based sliding mode control, piezo-patches, Euler-Bernoulli beam, adaptive approximation technique	53, 6, 825-834	<a href="https://doi.org/10.18280/jesa.530608">https://doi.org/10.18280/jesa.530608</a>	Al-Shuka, H.F.N. (2020). Proxy-based sliding mode vibration control with an adaptive approximation compensator for euler-bernoulli smart beams. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 825-834. <a href="https://doi.org/10.18280/jesa.530608">https://doi.org/10.18280/jesa.530608</a>
442	Zhu, Y.X., Wang, J.J., Li, M.Y.	Collaborative distribution in the soft time window of agricultural-means supply chain based on simulated annealing-genetic algorithm	agricultural-means supply chain (AMSC), collaborative distribution, soft time window, simulated annealing-genetic algorithm (SA-GA)	53, 6, 835-844	<a href="https://doi.org/10.18280/jesa.530609">https://doi.org/10.18280/jesa.530609</a>	Zhu, Y.X., Wang, J.J., Li, M.Y. (2020). Collaborative distribution in the soft time window of agricultural-means supply chain based on simulated annealing-genetic algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 835-844. <a href="https://doi.org/10.18280/jesa.530609">https://doi.org/10.18280/jesa.530609</a>
443	Berkani, A., Bey, M., Araria, R., Allaoui, T.	A new approach based on Fuzzy-Q-Learning algorithm to control 3 level T-type voltage source converter	Fuzzy-Q-Learning (FQL), Direct Power Control (DPC), Fuzzy Logic Control (FLC), Voltage Source Converter (VSC)	53, 6, 845-852	<a href="https://doi.org/10.18280/jesa.530610">https://doi.org/10.18280/jesa.530610</a>	Berkani, A., Bey, M., Araria, R., Allaoui, T. (2020). A new approach based on Fuzzy-Q-Learning algorithm to control 3 level T-type voltage source converter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 845-852. <a href="https://doi.org/10.18280/jesa.530610">https://doi.org/10.18280/jesa.530610</a>
444	Ezhilvannan, P., Krishnan, S.	An efficient asymmetric direct current (DC) source configured switched capacitor multi-level inverter	switched capacitor multi-level inverter, boost conversion, triangular multi-carrier sine wave pulse width modulation	53, 6, 853-859	<a href="https://doi.org/10.18280/jesa.530611">https://doi.org/10.18280/jesa.530611</a>	Ezhilvannan, P., Krishnan, S. (2020). An efficient asymmetric direct current (DC) source configured switched capacitor multi-level inverter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 853-859. <a href="https://doi.org/10.18280/jesa.530611">https://doi.org/10.18280/jesa.530611</a>
445	Fan, H.Y., Liu, D.B., Li, L.G., Liu, G.X.	A scheme for position and capacity determination of distributed generation considering load distribution and system voltage stability	voltage stability, load distribution, Distributed Generation (DG), influence impedance mode, position and capacity determination	53, 6, 861-867	<a href="https://doi.org/10.18280/jesa.530612">https://doi.org/10.18280/jesa.530612</a>	Fan, H.Y., Liu, D.B., Li, L.G., Liu, G.X. (2020). A scheme for position and capacity determination of distributed generation considering load distribution and system voltage stability. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 861-867. <a href="https://doi.org/10.18280/jesa.530612">https://doi.org/10.18280/jesa.530612</a>
446	Ojha, A.	Design of control system using online tuning of PI controllers for three-phase active front end neutral point clamped three-level converter	PI controllers, 3-level converter, signal constraint, Total Harmonic Distortion (THD), MATLAB/SIMULINK	53, 6, 869-882	<a href="https://doi.org/10.18280/jesa.530613">https://doi.org/10.18280/jesa.530613</a>	Ojha, A. (2020). Design of control system using online tuning of PI controllers for three-phase active front end neutral point clamped three-level converter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 869-882. <a href="https://doi.org/10.18280/jesa.530613">https://doi.org/10.18280/jesa.530613</a>
447	Bouradi, S., Negadi, K., Araria, R., Marignetti, F.	Z-source inverter for energy management and vector control for electric vehicle based PMSM	battery, electric vehicle control, energy management, fuel cell, permanent magnet synchronous motor, backstepping control, vector control	53, 6, 883-892	<a href="https://doi.org/10.18280/jesa.530614">https://doi.org/10.18280/jesa.530614</a>	Bouradi, S., Negadi, K., Araria, R., Marignetti, F. (2020). Z-source inverter for energy management and vector control for electric vehicle based PMSM. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 883-892. <a href="https://doi.org/10.18280/jesa.530614">https://doi.org/10.18280/jesa.530614</a>
448	Huang, X., Huang, P.X., Huang, T.X.	Multi-objective optimization of digital management for renewable energies in smart cities	smart city, renewable energy, digital management, multi-objective optimization	53, 6, 893-902	<a href="https://doi.org/10.18280/jesa.530615">https://doi.org/10.18280/jesa.530615</a>	Huang, X., Huang, P.X., Huang, T.X. (2020). Multi-objective optimization of digital management for renewable energies in smart cities. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 893-902. <a href="https://doi.org/10.18280/jesa.530615">https://doi.org/10.18280/jesa.530615</a>

449	Belouahchi, F., Merabet, E.	Design of a new direct torque control using synergetic theory for double star induction motor	(DSIM) double star induction motor, (SMC) sliding mode control, (FLC) fuzzy logic control, (SC) synergetic control, (THD) total harmonic distortion, Lyapunov's theory	53, 6, 903-914	<a href="https://doi.org/10.18280/jesa.530616">https://doi.org/10.18280/jesa.530616</a>	Belouahchi, F., Merabet, E. (2020). Design of a new direct torque control using synergetic theory for double star induction motor. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 903-914. <a href="https://doi.org/10.18280/jesa.530616">https://doi.org/10.18280/jesa.530616</a>
450	Ren, J.F., Ye, C.M., Li, Y.	A two-stage optimization algorithm for multi-objective job-shop scheduling problem considering job transport	Job-shop scheduling problem (JSP), multiple objectives, job transport; two-stage optimization, improved fast elitist nondominated sorting genetic algorithm II (NSGA-II)	53, 6, 915-924	<a href="https://doi.org/10.18280/jesa.530617">https://doi.org/10.18280/jesa.530617</a>	Ren, J.F., Ye, C.M., Li, Y. (2020). A two-stage optimization algorithm for multi-objective job-shop scheduling problem considering job transport. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 915-924. <a href="https://doi.org/10.18280/jesa.530617">https://doi.org/10.18280/jesa.530617</a>
451	Muthukuri, N.K., Narasipuram, R.P., Mopidevi, S.	Performance analysis of nested multilevel inverter topology for 72V electric vehicle applications	Electric Vehicle (EV), Plug-in Electric Vehicle (PEV), Total Harmonic Distortion (THD), Pulse Width Modulation (PWM), Multilevel Inverter (MLI)	53, 6, 925-930	<a href="https://doi.org/10.18280/jesa.530618">https://doi.org/10.18280/jesa.530618</a>	Muthukuri, N.K., Narasipuram, R.P., Mopidevi, S. (2020). Performance analysis of nested multilevel inverter topology for 72V electric vehicle applications. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 925-930. <a href="https://doi.org/10.18280/jesa.530618">https://doi.org/10.18280/jesa.530618</a>
452	Qiao, T.B.	Gait control of hexapod robot based on field-programmable gate array and central pattern generator	central pattern generator (CPG), hexapod robots, gait control, field-programmable gate array (FPGA)	53, 6, 931-937	<a href="https://doi.org/10.18280/jesa.530619">https://doi.org/10.18280/jesa.530619</a>	Qiao, T.B. (2020). Gait control of hexapod robot based on field-programmable gate array and central pattern generator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 931-937. <a href="https://doi.org/10.18280/jesa.530619">https://doi.org/10.18280/jesa.530619</a>
453	Devineni, G.K., Ganesh, A.	Problem formulations, solving strategies, implementation methods & applications of selective harmonic elimination for multilevel converters	multilevel converters, PWM formulations, SHEPWM, optimization algorithms, solving techniques	53, 6, 939-952	<a href="https://doi.org/10.18280/jesa.530620">https://doi.org/10.18280/jesa.530620</a>	Devineni, G.K., Ganesh, A. (2020). Problem formulations, solving strategies, implementation methods & applications of selective harmonic elimination for multilevel converters. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 939-952. <a href="https://doi.org/10.18280/jesa.530620">https://doi.org/10.18280/jesa.530620</a>
454	He, Y.J.	Influencing factors and evaluation model of quality risks in intelligent manufacturing mobile supply chain	intelligent manufacturing (IM), mobile supply chain (MSC), quality risk evaluation, backpropagation neural network (BPNN)	53, 6, 953-961	<a href="https://doi.org/10.18280/jesa.530621">https://doi.org/10.18280/jesa.530621</a>	He, Y.J. (2020). Influencing factors and evaluation model of quality risks in intelligent manufacturing mobile supply chain. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 6, pp. 953-961. <a href="https://doi.org/10.18280/jesa.530621">https://doi.org/10.18280/jesa.530621</a>
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457	Wang, Y., Tian, Z.Z.	Efficient original-destination bandwidth: A novel model for arterial traffic signal coordination	arterial network, traffic signal coordination (TSC), movement sequence, minimum/maximum green intervals, progression bands	53, 5, 609-616	<a href="https://doi.org/10.18280/jesa.530503">https://doi.org/10.18280/jesa.530503</a>	Wang, Y., Tian, Z.Z. (2020). Efficient original-destination bandwidth: A novel model for arterial traffic signal coordination. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 609-616. <a href="https://doi.org/10.18280/jesa.530503">https://doi.org/10.18280/jesa.530503</a>
458	Moati, Y., Kouzi, K.	An efficient of direct torque control of indirect three level matrix converter fed dual stator induction motor based on synergetic controller	Dual Stator Induction Motor (DSIM), Indirect Three-Level Matrix Converter (ITLMC), Space Vector Modulation (SVM), Constant Switching Frequency Controller (CSFC), Direct Torque Control (DTC), Synergetic Control (SC)	53, 5, 617-627	<a href="https://doi.org/10.18280/jesa.530504">https://doi.org/10.18280/jesa.530504</a>	Moati, Y., Kouzi, K. (2020). An efficient of direct torque control of indirect three level matrix converter fed dual stator induction motor based on synergetic controller. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 617-627. <a href="https://doi.org/10.18280/jesa.530504">https://doi.org/10.18280/jesa.530504</a>
459	Joshi, D., Satpathy, S.K.	Production scheduling of open pit mine using sequential branch-and-cut and longest path algorithm: An application from an African copper mine	open pit mine production scheduling, mixed integer programming, net present value, ordinary kriging	53, 5, 629-636	<a href="https://doi.org/10.18280/jesa.530505">https://doi.org/10.18280/jesa.530505</a>	Joshi, D., Satpathy, S.K. (2020). Production scheduling of open pit mine using sequential branch-and-cut and longest path algorithm: An application from an African copper mine. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 629-636. <a href="https://doi.org/10.18280/jesa.530505">https://doi.org/10.18280/jesa.530505</a>
460	Jiang, F.C., Feng, C.W., Zhu, C., Sun, Y.	Performance analysis of active queue management algorithm based on reinforcement learning	congestion control, active queue management (AQM), random early detection (RED), reinforcement learning AQM (RLAQM)	53, 5, 637-644	<a href="https://doi.org/10.18280/jesa.530506">https://doi.org/10.18280/jesa.530506</a>	Jiang, F.C., Feng, C.W., Zhu, C., Sun, Y. (2020). Performance analysis of active queue management algorithm based on reinforcement learning. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 637-644. <a href="https://doi.org/10.18280/jesa.530506">https://doi.org/10.18280/jesa.530506</a>
461	Yahdou, A., Djilali, A.B., Boudjema, Z., Mehedi, F.	Improved vector control of a counter-rotating wind turbine system using adaptive backstepping sliding mode	adaptive gains, backstepping, sliding mode, doubly fed induction generator, counter rotating wind turbine, vector control, proportional-integral regulators	53, 5, 645-651	<a href="https://doi.org/10.18280/jesa.530507">https://doi.org/10.18280/jesa.530507</a>	Yahdou, A., Djilali, A.B., Boudjema, Z., Mehedi, F. (2020). Improved vector control of a counter-rotating wind turbine system using adaptive backstepping sliding mode. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 645-651. <a href="https://doi.org/10.18280/jesa.530507">https://doi.org/10.18280/jesa.530507</a>
462	Yang, X.P., Liu, X.Y., Kou, G.Y., Xu, C.X., Zhang, W.H., Hu, R., Wang, C., Zhao, Z.Y.	Wind turbine lubrication based on parallel control of multiple factors	wind turbine, dynamic lubrication, control strategy, multiple factors, parallel control	53, 5, 653-660	<a href="https://doi.org/10.18280/jesa.530508">https://doi.org/10.18280/jesa.530508</a>	Yang, X.P., Liu, X.Y., Kou, G.Y., Xu, C.X., Zhang, W.H., Hu, R., Wang, C., Zhao, Z.Y. (2020). Wind turbine lubrication based on parallel control of multiple factors. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 653-660. <a href="https://doi.org/10.18280/jesa.530508">https://doi.org/10.18280/jesa.530508</a>
463	Yadav, A.K., Pathak, P.K., Gaur, P.	Robust control and stability analysis of computerized numeric controlled machine tool under parametric uncertainty	CNC machine tool, IMC, Kharitonov's theorem, $H^\infty$ controls theory, robustness analysis	53, 5, 661-670	<a href="https://doi.org/10.18280/jesa.530509">https://doi.org/10.18280/jesa.530509</a>	Yadav, A.K., Pathak, P.K., Gaur, P. (2020). Robust control and stability analysis of computerized numeric controlled machine tool under parametric uncertainty. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 661-670. <a href="https://doi.org/10.18280/jesa.530509">https://doi.org/10.18280/jesa.530509</a>
464	Lemita, A., Boulahbel, S., Kahla, S., Sedraoui, M.	Auto-control technique using gradient method based on radial basis function neural networks to control of an activated sludge process of wastewater treatment	activated sludge process, wastewater treatment, gradient descent algorithm, RBF neural network, PI control	53, 5, 671-679	<a href="https://doi.org/10.18280/jesa.530510">https://doi.org/10.18280/jesa.530510</a>	Lemita, A., Boulahbel, S., Kahla, S., Sedraoui, M. (2020). Auto-control technique using gradient method based on radial basis function neural networks to control of an activated sludge process of wastewater treatment. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 671-679. <a href="https://doi.org/10.18280/jesa.530510">https://doi.org/10.18280/jesa.530510</a>

465	Liu, J.L., Li, K.	Design of an intelligent symptom differentiation and electrical stimulation rehabilitation system	intelligent symptom differentiation (ISD), electrical stimulation rehabilitation (ESR), artificial intelligence (AI), system design, insomnia	53, 5, 681-693	<a href="https://doi.org/10.18280/jesa.530511">https://doi.org/10.18280/jesa.530511</a>	Liu, J.L., Li, K. (2020). Design of an intelligent symptom differentiation and electrical stimulation rehabilitation system. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 681-693. <a href="https://doi.org/10.18280/jesa.530511">https://doi.org/10.18280/jesa.530511</a>
466	Chennippan, M., Bhaskaran, P.E., Subramaniam, T., Meenakshipriya, B., Krishnamurthy, K., Kumar, K.A.	Design and experimental investigations on NOx emission control using FOCDM (fractional-order-based coefficient diagram method)-PIADμ controller	FOCDM-PIADμ controller, PSO algorithm, CDM-PID controller, NOx emission control	53, 5, 695-703	<a href="https://doi.org/10.18280/jesa.530512">https://doi.org/10.18280/jesa.530512</a>	Chennippan, M., Bhaskaran, P.E., Subramaniam, T., Meenakshipriya, B., Krishnamurthy, K., Kumar, K.A. (2020). Design and experimental investigations on NOx emission control using FOCDM (fractional-order-based coefficient diagram method)-PIADμ controller. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 695-703. <a href="https://doi.org/10.18280/jesa.530512">https://doi.org/10.18280/jesa.530512</a>
467	Khelil, J., Khelil, K., Ramdani, M., Boutasseta, N.	Discrete wavelet design for bearing fault diagnosis using particle swarm optimization	discrete wavelet transform (DWT), feature extraction, bearing fault diagnosis, particle swarm optimization (PSO), polyphase representation, filter bank	53, 5, 705-713	<a href="https://doi.org/10.18280/jesa.530513">https://doi.org/10.18280/jesa.530513</a>	Khelil, J., Khelil, K., Ramdani, M., Boutasseta, N. (2020). Discrete wavelet design for bearing fault diagnosis using particle swarm optimization. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 705-713. <a href="https://doi.org/10.18280/jesa.530513">https://doi.org/10.18280/jesa.530513</a>
468	Gao, L., Dou, H.D.	Inventory management of railway logistics park based on artificial neural network	artificial neural network (ANN), railway logistics park (RLP), inventory prediction, inventory management	53, 5, 715-723	<a href="https://doi.org/10.18280/jesa.530514">https://doi.org/10.18280/jesa.530514</a>	Gao, L., Dou, H.D. (2020). Inventory management of railway logistics park based on artificial neural network. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 715-723. <a href="https://doi.org/10.18280/jesa.530514">https://doi.org/10.18280/jesa.530514</a>
469	Kotapuri, M.R., Samala, R.K.	Fuzzy logic controlled based ant-lion optimization hybridization for economic power dispatch	economic dispatch, ant-lion optimization, fuzzy logic controller, fuel cost	53, 5, 725-731	<a href="https://doi.org/10.18280/jesa.530515">https://doi.org/10.18280/jesa.530515</a>	Kotapuri, M.R., Samala, R.K. (2020). Fuzzy logic controlled based ant-lion optimization hybridization for economic power dispatch. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 725-731. <a href="https://doi.org/10.18280/jesa.530515">https://doi.org/10.18280/jesa.530515</a>
470	Wang, H.Y.	Three-dimensional image recognition of athletes' wrong motions based on edge detection	human motion, image recognition, contourlet domain, edge detection, 3D image	53, 5, 733-738	<a href="https://doi.org/10.18280/jesa.530516">https://doi.org/10.18280/jesa.530516</a>	Wang, H.Y. (2020). Three-dimensional image recognition of athletes' wrong motions based on edge detection. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 733-738. <a href="https://doi.org/10.18280/jesa.530516">https://doi.org/10.18280/jesa.530516</a>
471	Faiza, A.A., Morsli, S., Tayeb, A.	Self tuning filter based fuzzy logic controller for active power filter	active power filter, fuzzy logic controller, hysteresis control, self tuned filter	53, 5, 739-745	<a href="https://doi.org/10.18280/jesa.530517">https://doi.org/10.18280/jesa.530517</a>	Faiza, A.A., Morsli, S., Tayeb, A. (2020). Self tuning filter based fuzzy logic controller for active power filter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 739-745. <a href="https://doi.org/10.18280/jesa.530517">https://doi.org/10.18280/jesa.530517</a>
472	Li, L., Zhao, R.H., Li, C.L.	Path planning for chainable non-holonomic system based on iterative learning control	non-holonomic system, iterative learning, path planning, initial configuration error, model error	53, 5, 747-753	<a href="https://doi.org/10.18280/jesa.530518">https://doi.org/10.18280/jesa.530518</a>	Li, L., Zhao, R.H., Li, C.L. (2020). Path planning for chainable non-holonomic system based on iterative learning control. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 747-753. <a href="https://doi.org/10.18280/jesa.530518">https://doi.org/10.18280/jesa.530518</a>
473	Bounasla, N., Barkat, S.	Optimum design of fractional order PI <sup>λ</sup> speed controller for predictive direct torque control of a sensorless five-phase Permanent Magnet Synchronous Machine (PMSM)	five-phase PMSM, DTC, PDTC, fractional order PI controller, grey wolf optimization algorithm, extended Kalman filter	53, 4, 437-449	<a href="https://doi.org/10.18280/jesa.530401">https://doi.org/10.18280/jesa.530401</a>	Bounasla, N., Barkat, S. (2020). Optimum design of fractional order PI <sup>λ</sup> speed controller for predictive direct torque control of a sensorless five-phase Permanent Magnet Synchronous Machine (PMSM). Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 437-449. <a href="https://doi.org/10.18280/jesa.530401">https://doi.org/10.18280/jesa.530401</a>
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475	Zhang, T., Hao, Q., Zheng, Z., Lu, C.	An electric spring control strategy based on finite control set-model predictive control	electric spring (ES), finite control set-model predictive control (FCS-MPC), voltage fluctuation, power quality	53, 4, 461-468	<a href="https://doi.org/10.18280/jesa.530403">https://doi.org/10.18280/jesa.530403</a>	Zhang, T., Hao, Q., Zheng, Z., Lu, C. (2020). An electric spring control strategy based on finite control set-model predictive control. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 461-468. <a href="https://doi.org/10.18280/jesa.530403">https://doi.org/10.18280/jesa.530403</a>
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478	Liu, C.H.	Multi-agent modeling of the collaborative operation of the producer service supply chain under the intelligent manufacturing clusters in the Yangtze river delta	intelligent manufacturing, producer service supply chain, collaborative operation, multi-agent modeling	53, 4, 487-492	<a href="https://doi.org/10.18280/jesa.530406">https://doi.org/10.18280/jesa.530406</a>	Liu, C.H. (2020). Multi-agent modeling of the collaborative operation of the producer service supply chain under the intelligent manufacturing clusters in the Yangtze river delta. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 487-492. <a href="https://doi.org/10.18280/jesa.530406">https://doi.org/10.18280/jesa.530406</a>
479	Thabet, A., Frej, G.B.H., Gasmî, N., Metoui, B.	Real time stabilization of Lipschitz nonlinear systems with nonlinear output	Lipchitz nonlinear systems, cost control, stabilization, nonlinear-observer, real-time-implementation	53, 4, 493-498	<a href="https://doi.org/10.18280/jesa.530407">https://doi.org/10.18280/jesa.530407</a>	Thabet, A., Frej, G.B.H., Gasmî, N., Metoui, B. (2020). Real time stabilization of Lipschitz nonlinear systems with nonlinear output. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 493-498. <a href="https://doi.org/10.18280/jesa.530407">https://doi.org/10.18280/jesa.530407</a>
480	Wang, D.Y., Geng, Z.X.	Adaptive Lp-norm regularized sparse representation for human activity recognition in coal mines	feature extraction, sparse representation, human activity recognition, adaptive-norm regularization, structured regularization	53, 4, 499-504	<a href="https://doi.org/10.18280/jesa.530408">https://doi.org/10.18280/jesa.530408</a>	Wang, D.Y., Geng, Z.X. (2020). Adaptive Lp-norm regularized sparse representation for human activity recognition in coal mines. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 499-504. <a href="https://doi.org/10.18280/jesa.530408">https://doi.org/10.18280/jesa.530408</a>

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483	Himour, K., Yahiaoui, A., Iffouzar, K.	Comparison of different control strategies of multilevel inverters used to fed a dual star induction machine	dual star induction machine, multilevel inverters, pulse width modulation strategy, simplified space vector control strategy, random pulse width modulation strategy	53, 4, 525-532	<a href="https://doi.org/10.18280/jesa.530411">https://doi.org/10.18280/jesa.530411</a>	Himour, K., Yahiaoui, A., Iffouzar, K. (2020). Comparison of different control strategies of multilevel inverters used to fed a dual star induction machine. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 4, pp. 525-532. <a href="https://doi.org/10.18280/jesa.530411">https://doi.org/10.18280/jesa.530411</a>
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485	Machavarapu, S., Rao, M.V.G., Rao, P.V.R.	Design of load frequency controller for multi-area system using AI techniques	backpropagation algorithm, fuzzy logic controller, PI-controller, tie line, load frequency controller, automatic speed governor	53, 4, 541-548	<a href="https://doi.org/10.18280/jesa.530413">https://doi.org/10.18280/jesa.530413</a>	Machavarapu, S., Rao, M.V.G., Rao, P.V.R. (2020). Design of load frequency controller for multi-area system using AI techniques. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 4, pp. 541-548. <a href="https://doi.org/10.18280/jesa.530413">https://doi.org/10.18280/jesa.530413</a>
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487	Kaddouri, L., Adamou-Mitiche, A.B.H., Mitiche, L.	Design of two-dimensional recursive digital filter using multi particle swarm optimization algorithm	2D filter, recursive filters, optimization, multi-PSO, stability	53, 4, 559-566	<a href="https://doi.org/10.18280/jesa.530415">https://doi.org/10.18280/jesa.530415</a>	Kaddouri, L., Adamou-Mitiche, A.B.H., Mitiche, L. (2020). Design of two-dimensional recursive digital filter using multi particle swarm optimization algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 4, pp. 559-566. <a href="https://doi.org/10.18280/jesa.530415">https://doi.org/10.18280/jesa.530415</a>
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489	Kotla, R.W., Yarlagadda, S.R.	Grid tied solar photovoltaic power plants with constant power injection maximum power point tracking algorithm	OFDM, MCPC, sidelobe suppression, subcarriers, radar communication, subcarrier weighting, BFGS	53, 4, 575-580	<a href="https://doi.org/10.18280/jesa.530417">https://doi.org/10.18280/jesa.530417</a>	Kotla, R.W., Yarlagadda, S.R. (2020). Grid tied solar photovoltaic power plants with constant power injection maximum power point tracking algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 4, pp. 567-573. <a href="https://doi.org/10.18280/jesa.530416">https://doi.org/10.18280/jesa.530416</a>
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500	Soma, S.K., Netapally, R.S.R., Mallapu, V.K.	Low-stress and efficient design of integrated boost series parallel fly-back converters	Integrated Boost Series Parallel Fly-Back Converter (IBSPFC), QSC (Quasi Switched Capacitor), voltage mode control	53, 3, 393-401	<a href="https://doi.org/10.18280/jesa.530310">https://doi.org/10.18280/jesa.530310</a>	Soma, S.K., Netapally, R.S.R., Mallapu, V.K. (2020). Low-stress and efficient design of integrated boost series parallel fly-back converters. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 3, pp. 393-401. <a href="https://doi.org/10.18280/jesa.530310">https://doi.org/10.18280/jesa.530310</a>
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502	Suryatal, B.K., Sarawade, S.S., Deshmukh, S.P.	A stereolithography system for 3D low cost components	photo-polymer, stereolithography, rapid prototyping, ultra-violet light	53, 3, 411-420	<a href="https://doi.org/10.18280/jesa.530312">https://doi.org/10.18280/jesa.530312</a>	Suryatal, B.K., Sarawade, S.S., Deshmukh, S.P. (2020). A stereolithography system for 3D low cost components. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 3, pp. 411-420. <a href="https://doi.org/10.18280/jesa.530312">https://doi.org/10.18280/jesa.530312</a>
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506	Syam, S., Kurniati, S., Ramang, R.	Design and characteristics of axial magnetic gear using rectangular magnet	DC motor, permanent magnet, torque	53, 2, 167-175	<a href="https://doi.org/10.18280/jesa.530202">https://doi.org/10.18280/jesa.530202</a>	Syam, S., Kurniati, S., Ramang, R. (2020). Design and characteristics of axial magnetic gear using rectangular magnet. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 2, pp. 167-175. <a href="https://doi.org/10.18280/jesa.530202">https://doi.org/10.18280/jesa.530202</a>
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510	Chen, R.C., Ou, Y.T., Fang, W.H., Shi, Y.G., Liu L.	Simulation analysis of a self-balancing hydraulic platform for agricultural machinery in mountainous regions	agricultural machinery, mountainous regions, self-balancing, kinematics, dynamics	53, 2, 203-211	<a href="https://doi.org/10.18280/jesa.530206">https://doi.org/10.18280/jesa.530206</a>	Chen, R.C., Ou, Y.T., Fang, W.H., Shi, Y.G., Liu L. (2020). Simulation analysis of a self-balancing hydraulic platform for agricultural machinery in mountainous regions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 2, pp. 203-211. <a href="https://doi.org/10.18280/jesa.530206">https://doi.org/10.18280/jesa.530206</a>
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531	Benbouhenni, H., Boudjema, Z., Belaidi, A.	DPC based on ANFIS super-twisting sliding mode algorithm of a doubly-fed induction generator for wind energy system	DPC, DFIG, powers ripples, STSMC, WTS, ANFIS	53, 1, 69-80	<a href="https://doi.org/10.18280/jesa.530109">https://doi.org/10.18280/jesa.530109</a>	Benbouhenni, H., Boudjema, Z., Belaidi, A. (2019). DPC based on ANFIS super-twisting sliding mode algorithm of a doubly-fed induction generator for wind energy system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 69-80. <a href="https://doi.org/10.18280/jesa.530109">https://doi.org/10.18280/jesa.530109</a>
532	Saritha, S., Mamatha, E., Reddy, C.S., Anand, K.	A model for compound poisson process queuing system with batch arrivals and services	mean queue length, batch arrivals and batch services, QBD – M, multi-server system, compound poisson process	53, 1, 81-86	<a href="https://doi.org/10.18280/jesa.530110">https://doi.org/10.18280/jesa.530110</a>	Saritha, S., Mamatha, E., Reddy, C.S., Anand, K. (2019). A model for compound poisson process queuing system with batch arrivals and services. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 81-86. <a href="https://doi.org/10.18280/jesa.530110">https://doi.org/10.18280/jesa.530110</a>
533	Huang, J.J.	Vibration testing of a certain turbojet engine using the power spectrum analysis	turbojet engine, engine test, vibration testing, power spectrum analysis, fault diagnosis	53, 1, 87-93	<a href="https://doi.org/10.18280/jesa.530111">https://doi.org/10.18280/jesa.530111</a>	Huang, J.J. (2020). Vibration testing of a certain turbojet engine using the power spectrum analysis. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 87-93. <a href="https://doi.org/10.18280/jesa.530111">https://doi.org/10.18280/jesa.530111</a>
534	Chenna, A., Aouzellag, D., Ghedamsi, K.	Study and control of a pumped storage hydropower system dedicated to renewable energy resources	pumped-storage hydropower, renewable energy, permanent machine synchronous generator, power control	53, 1, 95-102	<a href="https://doi.org/10.18280/jesa.530112">https://doi.org/10.18280/jesa.530112</a>	Chenna, A., Aouzellag, D., Ghedamsi, K. (2020). Study and control of a pumped storage hydropower system dedicated to renewable energy resources. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 95-102. <a href="https://doi.org/10.18280/jesa.530112">https://doi.org/10.18280/jesa.530112</a>
535	Chigozirim, A., Oluwatofunmi, A., Nwaocha, V.O., Juliana, N.	A speech activated control system for infrared appliances	speech recognition, infrared signal, control systems, effectors, sensor, controller	53, 1, 103-110	<a href="https://doi.org/10.18280/jesa.530113">https://doi.org/10.18280/jesa.530113</a>	Chigozirim, A., Oluwatofunmi, A., Nwaocha, V.O., Juliana, N. (2020). A speech activated control system for infrared appliances. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 103-110. <a href="https://doi.org/10.18280/jesa.530113">https://doi.org/10.18280/jesa.530113</a>
536	Huang, L.W., Li, Z.W., Li, S.R., Liu, L., Shi, Y.G.	Design and application of a free and lightweight aquaculture water quality detection robot	freshwater aquaculture, water quality detection, underwater robot, three-propeller propulsion, control system, remote monitoring	53, 1, 111-122	<a href="https://doi.org/10.18280/jesa.530114">https://doi.org/10.18280/jesa.530114</a>	Huang, L.W., Li, Z.W., Li, S.R., Liu, L., Shi, Y.G. (2020). Design and application of a free and lightweight aquaculture water quality detection robot. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 111-122. <a href="https://doi.org/10.18280/jesa.530114">https://doi.org/10.18280/jesa.530114</a>
537	Pittu, V.S.R., Gorantla, S.R.	Diseased area recognition and pesticide spraying in farming lands by multicopters and image processing system	unmanned aerial vehicle (UAV)/ multicopter, path planning, image acquisition, disease detection	53, 1, 123-130	<a href="https://doi.org/10.18280/jesa.530115">https://doi.org/10.18280/jesa.530115</a>	Pittu, V.S.R., Gorantla, S.R. (2020). Diseased area recognition and pesticide spraying in farming lands by multicopters and image processing system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 123-130. <a href="https://doi.org/10.18280/jesa.530115">https://doi.org/10.18280/jesa.530115</a>
538	Zhang, F.Q.	Fuzzy decision adjustment of train operation plan for high-speed rail network based on multi-objective optimization	high-speed rail (HSR), multi-objective optimization, fuzzy decision, chaotic firefly algorithm (CFA)	53, 1, 131-136	<a href="https://doi.org/10.18280/jesa.530116">https://doi.org/10.18280/jesa.530116</a>	Zhang, F.Q. (2020). Fuzzy decision adjustment of train operation plan for high-speed rail network based on multi-objective optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 131-136. <a href="https://doi.org/10.18280/jesa.530116">https://doi.org/10.18280/jesa.530116</a>
539	Said, B.M., Eddine, K.D., Salim, C.	Artificial neuron network based faults detection and localization in the high voltage transmission lines with Mho distance relay	fault detection and localization, diagnosis, high voltage transmission, Mho distance relay, artificial neural network	53, 1, 137-147	<a href="https://doi.org/10.18280/jesa.530117">https://doi.org/10.18280/jesa.530117</a>	Said, B.M., Eddine, K.D., Salim, C. (2020). Artificial neuron network based faults detection and localization in the high voltage transmission lines with Mho distance relay. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 137-147. <a href="https://doi.org/10.18280/jesa.530117">https://doi.org/10.18280/jesa.530117</a>
540	Yang, B.	Multi-goal driven optimization of the beam in straight-side two-point press	mechanical press, beam, parametric design, multi-goal driven optimization (multi-GDO)	53, 1, 149-155	<a href="https://doi.org/10.18280/jesa.530118">https://doi.org/10.18280/jesa.530118</a>	Yang, B. (2020). Multi-goal driven optimization of the beam in straight-side two-point press. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 1, pp. 149-155. <a href="https://doi.org/10.18280/jesa.530118">https://doi.org/10.18280/jesa.530118</a>
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542	Aliyev, E.A.	Modeling of the inking apparatus of the sheet printing machine	inking apparatus, offset printing, distribution model, dynamic characteristic	52, 6, 551-557	<a href="https://doi.org/10.18280/jesa.520602">https://doi.org/10.18280/jesa.520602</a>	Aliyev, E.A. (2019). Modeling of the inking apparatus of the sheet printing machine. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 6, pp. 551-557. <a href="https://doi.org/10.18280/jesa.520602">https://doi.org/10.18280/jesa.520602</a>
543	Lu, H., Wang, T.C.	An extension decision tree algorithm for lightweight design of autobody structure	autobody lightweight design, extension model, divergence reasoning, extension transform, extension decision tree (EDT) model	52, 6, 559-567	<a href="https://doi.org/10.18280/jesa.520603">https://doi.org/10.18280/jesa.520603</a>	Lu, H., Wang, T.C. (2019). An extension decision tree algorithm for lightweight design of autobody structure. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 6, pp. 559-567. <a href="https://doi.org/10.18280/jesa.520603">https://doi.org/10.18280/jesa.520603</a>
544	Sequeira, A.A., Mohammed, S., Kumar, A.A., Sameer, M., Kareem, Y.A., Sachidananda, K.H.	Design and fabrication of battery operated forklift	battery operated, automatic, steering, four wheel	52, 6, 569-574	<a href="https://doi.org/10.18280/jesa.520604">https://doi.org/10.18280/jesa.520604</a>	Sequeira, A.A., Mohammed, S., Kumar, A.A., Sameer, M., Kareem, Y.A., Sachidananda, K.H. (2019). Design and fabrication of battery operated forklift. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 6, pp. 569-574. <a href="https://doi.org/10.18280/jesa.520604">https://doi.org/10.18280/jesa.520604</a>

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546	Dasari, M.S., Mani, V.	Simulation and analysis of PI and NN tuned PI controllers for transformer based three-phase multi-level inverter with MC-PWM techniques	multi carrier PWM, multi-level inverter, PD, POD, APOD, THD	52, 6, 587-598	<a href="https://doi.org/10.18280/jesa.520606">https://doi.org/10.18280/jesa.520606</a>	Dasari, M.S., Mani, V. (2019). Simulation and analysis of PI and NN tuned PI controllers for transformer based three-phase multi-level inverter with MC-PWM techniques. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 587-598. <a href="https://doi.org/10.18280/jesa.520606">https://doi.org/10.18280/jesa.520606</a>
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549	Badugu, J., Obulesu, Y.P., Babu, C.S.	Recharging methods of electric vehicles in residential distribution systems	Electric Vehicles (EVs), coordinated charging, load curve, unplanned charging, Smart Load Management (SLM)	52, 6, 617-623	<a href="https://doi.org/10.18280/jesa.520609">https://doi.org/10.18280/jesa.520609</a>	Badugu, J., Obulesu, Y.P., Babu, C.S. (2019). Recharging methods of electric vehicles in residential distribution systems. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 617-623. <a href="https://doi.org/10.18280/jesa.520609">https://doi.org/10.18280/jesa.520609</a>
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551	Saritha, S., Mamatha, E., Reddy, C.S.	Performance measures of online warehouse service system with replenishment policy	inventory system, replenishment orders, markov process, queuing system, cost optimization	52, 6, 631-638	<a href="https://doi.org/10.18280/jesa.520611">https://doi.org/10.18280/jesa.520611</a>	Saritha, S., Mamatha, E., Reddy, C.S. (2019). Performance measures of online warehouse service system with replenishment policy. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 631-638. <a href="https://doi.org/10.18280/jesa.520611">https://doi.org/10.18280/jesa.520611</a>
552	Wang, M., Zhang, X.M., Fan, M.Y., Hao, M.	Influencing factors of channel collaboration in multi-channel supply chain: A contextual ambidexterity-based analysis from the perspective of traditional retailer	multi-channel supply chain (SC), channel collaboration, contextual ambidexterity, traditional sales channel, direct sales channel	52, 6, 639-647	<a href="https://doi.org/10.18280/jesa.520612">https://doi.org/10.18280/jesa.520612</a>	Wang, M., Zhang, X.M., Fan, M.Y., Hao, M. (2019). Influencing factors of channel collaboration in multi-channel supply chain: A contextual ambidexterity-based analysis from the perspective of traditional retailer. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 639-647. <a href="https://doi.org/10.18280/jesa.520612">https://doi.org/10.18280/jesa.520612</a>
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554	Manukonda, D., Gorantla, S.R.	Simulation of model predictive controller based oscillatory water pumping system for residential applications	vortex bladeless wind turbine, model predictive controller, maximum power point tracking, single phase induction motor, battery management system	52, 6, 655-661	<a href="https://doi.org/10.18280/jesa.520614">https://doi.org/10.18280/jesa.520614</a>	Manukonda, D., Gorantla, S.R. (2019). Simulation of model predictive controller based oscillatory water pumping system for residential applications. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 655-661. <a href="https://doi.org/10.18280/jesa.520614">https://doi.org/10.18280/jesa.520614</a>
555	Joshy, A., Dsouza, R., Muthirulan, V., Sachidananda, K.H.	Experimental analysis on the turning of aluminum alloy 7075 based on taguchi method and artificial neural network	turning, feed rate, cutting speed, depth of cut, surface roughness, Artificial Neural Network (ANN), taguchi method, machining	52, 5, 429-437	<a href="https://doi.org/10.18280/jesa.520501">https://doi.org/10.18280/jesa.520501</a>	Joshy, A., Dsouza, R., Muthirulan, V., Sachidananda, K.H. (2019). Experimental analysis on the turning of aluminum alloy 7075 based on taguchi method and artificial neural network. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 429-437. <a href="https://doi.org/10.18280/jesa.520501">https://doi.org/10.18280/jesa.520501</a>
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558	Feng, M., Cheng, Y.R.	Optimization of drop-and-pull transport network based on shared freight station and hub-and-spoke network	Drop-And-Pull (D-P) Transport, Hub-And-Spoke (H-S) network, shared freight station, optimization	52, 5, 457-464	<a href="https://doi.org/10.18280/jesa.520504">https://doi.org/10.18280/jesa.520504</a>	Feng, M., Cheng, Y.R. (2019). Optimization of drop-and-pull transport network based on shared freight station and hub-and-spoke network. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 457-464. <a href="https://doi.org/10.18280/jesa.520504">https://doi.org/10.18280/jesa.520504</a>
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560	Lu, Y.P., Pei, X., Zhang, C.Z., Luo, H.Y., Liu, B., Ma, Z.D.	Design of multimodal transport path optimization model and dual pheromone hybrid algorithm	Multimodal Transport, Path Optimization, Scale Effect, Genetic Algorithm (GA), Ant Colony Optimization (ACO)	52, 5, 477-484	<a href="https://doi.org/10.18280/jesa.520506">https://doi.org/10.18280/jesa.520506</a>	Lu, Y.P., Pei, X., Zhang, C.Z., Luo, H.Y., Liu, B., Ma, Z.D. (2019). Design of multimodal transport path optimization model and dual pheromone hybrid algorithm. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 477-484. <a href="https://doi.org/10.18280/jesa.520506">https://doi.org/10.18280/jesa.520506</a>

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563	Nelaturi, N., Devi, G.L.	A product recommendation model based on recurrent neural network	Recurrent Neural Network (RNN), purchase patterns, deep learning, bidirectional model, attention mechanism	52, 5, 501-507	<a href="https://doi.org/10.18280/jesa.520509">https://doi.org/10.18280/jesa.520509</a>	Nelaturi, N., Devi, G.L. (2019). A product recommendation model based on recurrent neural network. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 501-507. <a href="https://doi.org/10.18280/jesa.520509">https://doi.org/10.18280/jesa.520509</a>
564	Deng, F., Liu, X.Y., Zhang, N., Zhang, F.X.	Dimension synthesis of a 3T2R labelling robot with hybrid mechanism	hybrid mechanism, dimension synthesis, jacobian matrix, pareto frontier approach, multi-objective optimization	52, 5, 509-514	<a href="https://doi.org/10.18280/jesa.520510">https://doi.org/10.18280/jesa.520510</a>	Deng, F., Liu, X.Y., Zhang, N., Zhang, F.X. (2019). Dimension synthesis of a 3T2R labelling robot with hybrid mechanism. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 509-514. <a href="https://doi.org/10.18280/jesa.520510">https://doi.org/10.18280/jesa.520510</a>
565	Garziad, M., Saka, A.	Influence of rider on the stability and control of two wheeled vehicles	two-wheeled vehicle, rider, lean torque, steering torque, Proportional-Integral-Derivative (PID) Controller	52, 5, 515-520	<a href="https://doi.org/10.18280/jesa.520511">https://doi.org/10.18280/jesa.520511</a>	Garziad, M., Saka, A. (2019). Influence of rider on the stability and control of two wheeled vehicles. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 515-520. <a href="https://doi.org/10.18280/jesa.520511">https://doi.org/10.18280/jesa.520511</a>
566	Khalidi, L., Iffouzar, K., Ghedamsi, K., Aouzellag, D.	Performance analysis of five-phase induction machine under unbalanced parameters	performance analysis, five-phase induction machine, stator and rotor resistance variation, joule losses, torque ripples, mechanical speed	52, 5, 521-526	<a href="https://doi.org/10.18280/jesa.520512">https://doi.org/10.18280/jesa.520512</a>	Khalidi, L., Iffouzar, K., Ghedamsi, K., Aouzellag, D. (2019). Performance analysis of five-phase induction machine under unbalanced parameters. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 521-526. <a href="https://doi.org/10.18280/jesa.520512">https://doi.org/10.18280/jesa.520512</a>
567	Li, L., Huang, Y., Guo, X.X.	Kinematics modelling and experimental analysis of a six-joint manipulator	denavit and hartenberg (D-H) parameters, manipulator, kinematics modelling, simulation	52, 5, 527-533	<a href="https://doi.org/10.18280/jesa.520513">https://doi.org/10.18280/jesa.520513</a>	Li, L., Huang, Y., Guo, X.X. (2019). Kinematics modelling and experimental analysis of a six-joint manipulator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 527-533. <a href="https://doi.org/10.18280/jesa.520513">https://doi.org/10.18280/jesa.520513</a>
568	Rao, D., Latha, C.P., Kumar, N.B., Venkatesh, P.M.	Oppositional teaching and learning based optimization of economical load dispatch problem with valve point loading effect	economic load dispatch (ELD), cost function, oppositional teaching and learning based optimization (OTLBO), valve point loading effect	52, 5, 535-540	<a href="https://doi.org/10.18280/jesa.520514">https://doi.org/10.18280/jesa.520514</a>	Rao, D., Latha, C.P., Kumar, N.B., Venkatesh, P.M. (2019). Oppositional teaching and learning based optimization of economical load dispatch problem with valve point loading effect. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 535-540. <a href="https://doi.org/10.18280/jesa.520514">https://doi.org/10.18280/jesa.520514</a>
569	Vovna, O.V., Laktionov, I.S., Dobrovol'ska, L.O., Kabanets, M.M., Lebediev, V.A.	Evaluation of metrological characteristics of a computerized conductivity meter of irrigation solution based on the uncertainty theory	electrical conductivity, greenhouses, arduino, piecewise linear approximation, hardware components, software	52, 4, 333-340	<a href="https://doi.org/10.18280/jesa.520401">https://doi.org/10.18280/jesa.520401</a>	Vovna, O.V., Laktionov, I.S., Dobrovol'ska, L.O., Kabanets, M.M., Lebediev, V.A. (2019). Evaluation of metrological characteristics of a computerized conductivity meter of irrigation solution based on the uncertainty theory. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 333-340. <a href="https://doi.org/10.18280/jesa.520401">https://doi.org/10.18280/jesa.520401</a>
570	Bouamama, M., Elmeiche, A., Elhennani, A., Kebir, T.	Dynamic stability analysis of functionally graded timoshenko beams with internal viscous damping distribution	dynamic stability, functionally graded material (FGM), timoshenko beam, internal viscous damping, finite element method, eigenfrequencies	52, 4, 341-346	<a href="https://doi.org/10.18280/jesa.520402">https://doi.org/10.18280/jesa.520402</a>	Bouamama, M., Elmeiche, A., Elhennani, A., Kebir, T. (2019). Dynamic stability analysis of functionally graded timoshenko beams with internal viscous damping distribution. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 341-346. <a href="https://doi.org/10.18280/jesa.520402">https://doi.org/10.18280/jesa.520402</a>
571	Lan, C.F.	A coordination contract for green agricultural product supply chain with stochastic output	green supply chain (SC), two-part tariff (TPT) contract, stochastic output, coordination	52, 4, 347-354	<a href="https://doi.org/10.18280/jesa.520403">https://doi.org/10.18280/jesa.520403</a>	Lan, C.F. (2019). A coordination contract for green agricultural product supply chain with stochastic output. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 347-354. <a href="https://doi.org/10.18280/jesa.520403">https://doi.org/10.18280/jesa.520403</a>
572	Verma, V., Chauhan, P., Gupta, M.K.	Disturbance observer-assisted trajectory tracking control for surgical robot manipulator	nonlinear control, disturbance observer, kinematics, dynamic modeling, tracking	52, 4, 355-362	<a href="https://doi.org/10.18280/jesa.520404">https://doi.org/10.18280/jesa.520404</a>	Verma, V., Chauhan, P., Gupta, M.K. (2019). Disturbance observer-assisted trajectory tracking control for surgical robot manipulator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 355-362. <a href="https://doi.org/10.18280/jesa.520404">https://doi.org/10.18280/jesa.520404</a>
573	Mu, W.Z.	A big data-based prediction model for purchase decisions of consumers on cross-border e-commerce platforms	big data, purchase decision, prediction, cross-border e-commerce platform, multilayer perceptron (MLP)	52, 4, 363-368	<a href="https://doi.org/10.18280/jesa.520405">https://doi.org/10.18280/jesa.520405</a>	Mu, W.Z. (2019). A big data-based prediction model for purchase decisions of consumers on cross-border e-commerce platforms. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 363-368. <a href="https://doi.org/10.18280/jesa.520405">https://doi.org/10.18280/jesa.520405</a>
574	Anand, K., Mamatha, E., Reddy, C.S., Prabha, M.	Design of neural network based expert system for automated lime kiln system	artificial neural network, optimization, lime kiln, shell temperature, furnace oil consumption, intelligent controller	52, 4, 369-376	<a href="https://doi.org/10.18280/jesa.520406">https://doi.org/10.18280/jesa.520406</a>	Anand, K., Mamatha, E., Reddy, C.S., Prabha, M. (2019). Design of neural network based expert system for automated lime kiln system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 369-376. <a href="https://doi.org/10.18280/jesa.520406">https://doi.org/10.18280/jesa.520406</a>
575	Dong, L.L., Wu, J., Wang, W.	A safe evacuation mode for ultradeep underground space in urban rail transit stations	safe evacuation mode, ultradeep underground public spaces, horizontal shelter, vertical evacuation system	52, 4, 377-385	<a href="https://doi.org/10.18280/jesa.520407">https://doi.org/10.18280/jesa.520407</a>	Dong, L.L., Wu, J., Wang, W. (2019). A safe evacuation mode for ultradeep underground space in urban rail transit stations. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 377-385. <a href="https://doi.org/10.18280/jesa.520407">https://doi.org/10.18280/jesa.520407</a>
576	Aswal, A., Jha, A., Tiwari, A., Modi, Y.K.	CNC turning parameter optimization for surface roughness of aluminium-2014 alloy using Taguchi methodology	analysis of variance (ANOVA), computer numerical control (CNC) turning, optimization, taguchi method, surface roughness, signal-to-noise ratio (SNR)	52, 4, 387-390	<a href="https://doi.org/10.18280/jesa.520408">https://doi.org/10.18280/jesa.520408</a>	Aswal, A., Jha, A., Tiwari, A., Modi, Y.K. (2019). CNC turning parameter optimization for surface roughness of aluminium-2014 alloy using Taguchi methodology. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 387-390. <a href="https://doi.org/10.18280/jesa.520408">https://doi.org/10.18280/jesa.520408</a>

577	Li, D., Liu, C.H., Li, K.	A remanufacturing logistics network model based on improved multi-objective ant colony optimization	remanufacturing logistics network, carbon emissions, multi-objective ant colony optimization (MACO), genetic algorithm (GA)	52, 4, 391-395	<a href="https://doi.org/10.18280/jesa.520409">https://doi.org/10.18280/jesa.520409</a>	Li, D., Liu, C.H., Li, K. (2019). A remanufacturing logistics network model based on improved multi-objective ant colony optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 391-395. <a href="https://doi.org/10.18280/jesa.520409">https://doi.org/10.18280/jesa.520409</a>
578	Ali, A.A., Hegaze, M.M., Elrodesly, A.S.	Maximizing the onboard capability of the spacecraft attitude control system based on optimal use of reaction wheels	attitude control system, optimal configuration, reaction wheels, spacecraft (SC) agility, torque envelope	52, 4, 397-407	<a href="https://doi.org/10.18280/jesa.520410">https://doi.org/10.18280/jesa.520410</a>	Ali, A.A., Hegaze, M.M., Elrodesly, A.S. (2019). Maximizing the onboard capability of the spacecraft attitude control system based on optimal use of reaction wheels. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 397-407. <a href="https://doi.org/10.18280/jesa.520410">https://doi.org/10.18280/jesa.520410</a>
579	Qu, C.G., Cao, H.L., Sun, S., Xu, M.J.	Modelling of fuel flow in climb phase through multiple linear regression based on the data collected by quick access recorder	fuel flow, quick access recorder (QAR), multiple linear regression, prediction	52, 4, 409-413	<a href="https://doi.org/10.18280/jesa.520411">https://doi.org/10.18280/jesa.520411</a>	Qu, C.G., Cao, H.L., Sun, S., Xu, M.J. (2019). Modelling of fuel flow in climb phase through multiple linear regression based on the data collected by quick access recorder. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 409-413. <a href="https://doi.org/10.18280/jesa.520411">https://doi.org/10.18280/jesa.520411</a>
580	Asfar, J., Atieh, A., Al-Mbaideen, R.	Techno-economic analysis of a microgrid hybrid renewable energy system in Jordan	hybrid renewable energy systems, homer software, microgrid, optimization	52, 4, 415-423	<a href="https://doi.org/10.18280/jesa.520412">https://doi.org/10.18280/jesa.520412</a>	Asfar, J., Atieh, A., Al-Mbaideen, R. (2019). Techno-economic analysis of a microgrid hybrid renewable energy system in Jordan. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 415-423. <a href="https://doi.org/10.18280/jesa.520412">https://doi.org/10.18280/jesa.520412</a>
581	Wahyuadnyana, K.D., Gunawan, A.A.N., Paramarta, I.B.A.	Remote control of room lights and coolers automation system SMS based	lm35 sensors, passive infrared receiver (PIR) sensors, automation system, remote control, light intensity	52, 4, 425-428	<a href="https://doi.org/10.18280/jesa.520413">https://doi.org/10.18280/jesa.520413</a>	Wahyuadnyana, K.D., Gunawan, A.A.N., Paramarta, I.B.A. (2019). Remote control of room lights and coolers automation system SMS based. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 4, pp. 425-428. <a href="https://doi.org/10.18280/jesa.520413">https://doi.org/10.18280/jesa.520413</a>
582	Avanzini, P.	Energy and economy: A thermodynamic approach	turning, feed rate, cutting speed, depth of cut, surface roughness, artificial neural network (ANN), taguchi method, machining	52, 3, 429-437	<a href="https://doi.org/10.18280/jesa.520301">https://doi.org/10.18280/jesa.520301</a>	Avanzini, P. (2019). Energy and economy: A thermodynamic approach. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 429-437. <a href="https://doi.org/10.18280/jesa.520301">https://doi.org/10.18280/jesa.520301</a>
583	Sun, Z.L., Lv, G., Luo, Z.Y., Xie, C.Y., Wang, W.	A novel automatic detection model for single line-to-ground fault	modular design, design structure matrix (DSM), clustering, non-dominated sorting, cuckoo search, multi-objective optimization	52, 3, 439-448	<a href="https://doi.org/10.18280/jesa.520302">https://doi.org/10.18280/jesa.520302</a>	Sun, Z.L., Lv, G., Luo, Z.Y., Xie, C.Y., Wang, W. (2019). A novel automatic detection model for single line-to-ground fault. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 439-448. <a href="https://doi.org/10.18280/jesa.520302">https://doi.org/10.18280/jesa.520302</a>
584	Sharma, N.R., Agrawal, H., Mishra, A.K.	Maintenance schedules of mining HEMM using an optimization framework model	computed torque, golf swing robot, hyper dynamic manipulation, sliding mode observer, stability	52, 3, 449-456	<a href="https://doi.org/10.18280/jesa.520303">https://doi.org/10.18280/jesa.520303</a>	Sharma, N.R., Agrawal, H., Mishra, A.K. (2019). Maintenance schedules of mining HEMM using an optimization framework model. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 449-456. <a href="https://doi.org/10.18280/jesa.520303">https://doi.org/10.18280/jesa.520303</a>
585	Chen, W., Hao, Y.F., Jin, N.Q.J.	Product collaborative innovation of project-based supply chain under the influence of knowledge input	computed torque, golf swing robot, hyper dynamic manipulation, sliding mode observer, stability	52, 3, 457-464	<a href="https://doi.org/10.18280/jesa.520304">https://doi.org/10.18280/jesa.520304</a>	Chen, W., Hao, Y.F., Jin, N.Q.J. (2019). Product collaborative innovation of project-based supply chain under the influence of knowledge input. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 457-464. <a href="https://doi.org/10.18280/jesa.520304">https://doi.org/10.18280/jesa.520304</a>
586	Yamparala, R., Perumal, B.	Secure data transmission with effective routing method using group key management techniques-A survey	Transdisciplinary Quality System Development Lifecycle (TQSDL) Model, Model-Based Systems Engineering (MBSE), Dependency Structure Matrix (DSM), Quality Function Deployment (QFD), Systems Engineering (SE)	52, 3, 465-476	<a href="https://doi.org/10.18280/jesa.520305">https://doi.org/10.18280/jesa.520305</a>	Yamparala, R., Perumal, B. (2019). Secure data transmission with effective routing method using group key management techniques-A survey. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 465-476. <a href="https://doi.org/10.18280/jesa.520305">https://doi.org/10.18280/jesa.520305</a>
587	Pan, J., Fu, Z., Chen, H.W.	Split delivery vehicle routing problem with minimum delivery amounts	multimodal transport, path optimization, scale effect, Genetic Algorithm (GA), Ant Colony Optimization (ACO)	52, 3, 477-484	<a href="https://doi.org/10.18280/jesa.520306">https://doi.org/10.18280/jesa.520306</a>	Pan, J., Fu, Z., Chen, H.W. (2019). Split delivery vehicle routing problem with minimum delivery amounts. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 477-484. <a href="https://doi.org/10.18280/jesa.520306">https://doi.org/10.18280/jesa.520306</a>
588	Fadel, M.Z., Rabie, M.G., Youssef, A.M.	Modeling, simulation and control of a fly-by-wire flight control system using classical PID and modified PID controllers	polishing, surface roughness, surface finish, machining	52, 3, 485-493	<a href="https://doi.org/10.18280/jesa.520307">https://doi.org/10.18280/jesa.520307</a>	Fadel, M.Z., Rabie, M.G., Youssef, A.M. (2019). Modeling, simulation and control of a fly-by-wire flight control system using classical PID and modified PID controllers. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 485-493. <a href="https://doi.org/10.18280/jesa.520307">https://doi.org/10.18280/jesa.520307</a>
589	Wang, S.J.	Design and simulation of a fuzzy controller for automatic train driving based on multi-swarm optimization	Passenger-Dedicated Lines (PDLs), Freight Block Trains (FBTs), operation planning, sensitivity analysis	52, 3, 495-500	<a href="https://doi.org/10.18280/jesa.520308">https://doi.org/10.18280/jesa.520308</a>	Wang, S.J. (2019). Design and simulation of a fuzzy controller for automatic train driving based on multi-swarm optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 495-500. <a href="https://doi.org/10.18280/jesa.520308">https://doi.org/10.18280/jesa.520308</a>
590	Koshy, G., Samad, B.A., Suresh, A., Shameem, M., Mana, A.P.	Tribological behaviour of phosphonium based ionic liquid blended with ZDDP	recurrent neural network (rnn), purchase patterns, deep learning, bidirectional model, attention mechanism	52, 3, 501-507	<a href="https://doi.org/10.18280/jesa.520309">https://doi.org/10.18280/jesa.520309</a>	Koshy, G., Samad, B.A., Suresh, A., Shameem, M., Mana, A.P. (2019). Tribological behaviour of phosphonium based ionic liquid blended with ZDDP. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 501-507. <a href="https://doi.org/10.18280/jesa.520309">https://doi.org/10.18280/jesa.520309</a>
591	Zhang, W.L., Liu, M.J., Wang, X.	Design and simulation of a road maintenance vehicle with a multi-working position manipulator and an automatic feeding mechanism	hybrid mechanism, dimension synthesis, Jacobian matrix, pareto frontier approach, multi-objective optimization	52, 3, 509-514	<a href="https://doi.org/10.18280/jesa.520310">https://doi.org/10.18280/jesa.520310</a>	Zhang, W.L., Liu, M.J., Wang, X. (2019). Design and simulation of a road maintenance vehicle with a multi-working position manipulator and an automatic feeding mechanism. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 509-514. <a href="https://doi.org/10.18280/jesa.520310">https://doi.org/10.18280/jesa.520310</a>
592	Gupta, A., Mondal, A.K., Gupta, M.K.	Kinematic, dynamic analysis and control of 3 DOF upper-limb robotic exoskeleton	two-wheeled vehicle, rider, lean torque, steering torque, proportional-integral-derivative (PID) controller	52, 3, 515-520	<a href="https://doi.org/10.18280/jesa.520311">https://doi.org/10.18280/jesa.520311</a>	Gupta, A., Mondal, A.K., Gupta, M.K. (2019). Kinematic, dynamic analysis and control of 3 DOF upper-limb robotic exoskeleton. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 515-520. <a href="https://doi.org/10.18280/jesa.520311">https://doi.org/10.18280/jesa.520311</a>

593	Abadi, M.H., Vaziri, A.M., Jajarmi, A.	On a new and efficient numerical technique to solve a class of discrete-time nonlinear optimal control problems	performance analysis, five-phase induction machine, stator and rotor resistance variation, joule losses, torque ripples, mechanical speed	52, 3, 521-526	<a href="https://doi.org/10.18280/jesa.520312">https://doi.org/10.18280/jesa.520312</a>	Abadi, M.H., Vaziri, A.M., Jajarmi, A. (2019). On a new and efficient numerical technique to solve a class of discrete-time nonlinear optimal control problems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 521-526. <a href="https://doi.org/10.18280/jesa.520312">https://doi.org/10.18280/jesa.520312</a>
594	Assam, B., Messalti, S., Harrag, A.	New improved hybrid MPPT based on backstepping-sliding mode for PV system	Denavit and Hartenberg (D-H) parameters, manipulator, kinematics modelling, simulation	52, 3, 527-533	<a href="https://doi.org/10.18280/jesa.520313">https://doi.org/10.18280/jesa.520313</a>	Assam, B., Messalti, S., Harrag, A. (2019). New improved hybrid MPPT based on backstepping-sliding mode for PV system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 527-533. <a href="https://doi.org/10.18280/jesa.520313">https://doi.org/10.18280/jesa.520313</a>
595	Abdellaoui, H., Ghedamsi, K., Mecharek, A.	Performance and lifetime increase of the PEM fuel cell in hybrid electric vehicle application by using an NPC seven-level inverter	Economic Load Dispatch (ELD), Cost Function, Oppositional Teaching and Learning Based Optimization (OTLBO), valve point loading effect	52, 3, 535-540	<a href="https://doi.org/10.18280/jesa.520314">https://doi.org/10.18280/jesa.520314</a>	Abdellaoui, H., Ghedamsi, K., Mecharek, A. (2019). Performance and lifetime increase of the PEM fuel cell in hybrid electric vehicle application by using an NPC seven-level inverter. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 3, pp. 535-540. <a href="https://doi.org/10.18280/jesa.520314">https://doi.org/10.18280/jesa.520314</a>
596	Garziad, M., Saka, A.	Development and modeling of a ptw vehicle: co-simulation approach	motorcycle, modeling, mf tire, suspension, biomechanics, rider, stability, control	52, 2, 115-121	<a href="https://doi.org/10.18280/jesa.520201">https://doi.org/10.18280/jesa.520201</a>	Garziad, M., Saka, A. (2019). Development and modeling of a ptw vehicle: co-simulation approach. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 115-121. <a href="https://doi.org/10.18280/jesa.520201">https://doi.org/10.18280/jesa.520201</a>
597	Sang, J.G.	A cost-effective pump scheduling method for mine drainage system based on ant colony optimization	pump scheduling, mine drainage system (MDS), ant colony optimization (ACO), cost efficiency	52, 2, 123-128	<a href="https://doi.org/10.18280/jesa.520202">https://doi.org/10.18280/jesa.520202</a>	Sang, J.G. (2019). A cost-effective pump scheduling method for mine drainage system based on ant colony optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 123-128. <a href="https://doi.org/10.18280/jesa.520202">https://doi.org/10.18280/jesa.520202</a>
598	Zhong, S.	Empirical analysis on function mechanism of factors affecting the efficiency of china's agricultural products logistics	agricultural products logistics, technical efficiency, influencing factors, function mechanism	52, 2, 129-135	<a href="https://doi.org/10.18280/jesa.520203">https://doi.org/10.18280/jesa.520203</a>	Zhong, S. (2019). Empirical analysis on function mechanism of factors affecting the efficiency of china's agricultural products logistics. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 129-135. <a href="https://doi.org/10.18280/jesa.520203">https://doi.org/10.18280/jesa.520203</a>
599	Mahesh, V., Shastry, S., Murthy, V., Kumar, V., Mahesh, V.	Approach to reduce throughput time in grinding of gundrills	Gundrill, grinding, throughput time, cycle time, arena	52, 2, 137-142	<a href="https://doi.org/10.18280/jesa.520204">https://doi.org/10.18280/jesa.520204</a>	Mahesh, V., Shastry, S., Murthy, V., Kumar, V., Mahesh, V. (2019). Approach to reduce throughput time in grinding of gundrills. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 137-142. <a href="https://doi.org/10.18280/jesa.520204">https://doi.org/10.18280/jesa.520204</a>
600	Goyal, G.R., Vadhera, S.	Solution of combined economic emission dispatch with demand side management using meta-heuristic algorithms	demand side management, economic emission dispatch, load reduction, meta-heuristic algorithm	52, 2, 143-148	<a href="https://doi.org/10.18280/jesa.520205">https://doi.org/10.18280/jesa.520205</a>	Goyal, G.R., Vadhera, S. (2019). Solution of combined economic emission dispatch with demand side management using meta-heuristic algorithms. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 143-148. <a href="https://doi.org/10.18280/jesa.520205">https://doi.org/10.18280/jesa.520205</a>
601	Mu, H.P.	Disruption management of flexible job shop scheduling considering behavior perception and machine fault based on improved NSGA-II algorithm	flexible job-shop scheduling, close relative crossover and mutation, NSGA-II; multi-objective optimization, behavior perception	52, 2, 149-156	<a href="https://doi.org/10.18280/jesa.520206">https://doi.org/10.18280/jesa.520206</a>	Mu, H.P. (2019). Disruption management of flexible job shop scheduling considering behavior perception and machine fault based on improved NSGA-II algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 149-156. <a href="https://doi.org/10.18280/jesa.520206">https://doi.org/10.18280/jesa.520206</a>
602	Jiang, D.F., Liu, C.H.	Modelling of supply chain risk contagion based on system dynamics	supply chain (SC), risk contagion, system dynamics, evolution	52, 2, 157-162	<a href="https://doi.org/10.18280/jesa.520207">https://doi.org/10.18280/jesa.520207</a>	Jiang, D.F., Liu, C.H. (2019). Modelling of supply chain risk contagion based on system dynamics. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 157-162. <a href="https://doi.org/10.18280/jesa.520207">https://doi.org/10.18280/jesa.520207</a>
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604	Zhang, N.	Design and implementation of walking beam manipulator in automatic production line based on PLC	walking beam manipulator, automatic production line, position servo system, proportional-integral-derivative (PID) control	52, 2, 173-178	<a href="https://doi.org/10.18280/jesa.520209">https://doi.org/10.18280/jesa.520209</a>	Zhang, N. (2019). Design and implementation of walking beam manipulator in automatic production line based on PLC. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 173-178. <a href="https://doi.org/10.18280/jesa.520209">https://doi.org/10.18280/jesa.520209</a>
605	Wang, C., Zeng, L.	Optimization of multi-objective job-shop scheduling under uncertain environment	job-shop scheduling problem (JSP), multi-objective tradeoff, optimization model, uncertain environment	52, 2, 179-183	<a href="https://doi.org/10.18280/jesa.520210">https://doi.org/10.18280/jesa.520210</a>	Wang, C., Zeng, L. (2019). Optimization of multi-objective job-shop scheduling under uncertain environment. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 179-183. <a href="https://doi.org/10.18280/jesa.520210">https://doi.org/10.18280/jesa.520210</a>
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607	Ram, J., Manoharan, A., Sun, S.Y.	Online-to-offline (O2O) business: Empirically examining the adoption vs. non-adoption	online-to-offline (O2O), adoption, technology-organization-environment (TOE), social commerce, diffusion of innovation (DOI)	52, 2, 189-198	<a href="https://doi.org/10.18280/jesa.520212">https://doi.org/10.18280/jesa.520212</a>	Ram, J., Manoharan, A., Sun, S.Y. (2019). Online-to-offline (O2O) business: Empirically examining the adoption vs. non-adoption. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 189-198. <a href="https://doi.org/10.18280/jesa.520212">https://doi.org/10.18280/jesa.520212</a>
608	Zhao, Y.X.	Optimal decision-making for green supply chain based on overconfidence under the carbon emission constraint	overconfidence, carbon emission, green supply chain, green preference	52, 2, 199-204	<a href="https://doi.org/10.18280/jesa.520213">https://doi.org/10.18280/jesa.520213</a>	Zhao, Y.X. (2019). Optimal decision-making for green supply chain based on overconfidence under the carbon emission constraint. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 199-204. <a href="https://doi.org/10.18280/jesa.520213">https://doi.org/10.18280/jesa.520213</a>

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610	Song, Y., Cao, Y.P.	VMI & TPL supply chain coordination based on evolutionary game	vendor managed inventory, supply chain coordination, evolutionary game, third party logistics	52, 2, 215-2222	<a href="https://doi.org/10.18280/jesa.520215">https://doi.org/10.18280/jesa.520215</a>	Song, Y., Cao, Y.P. (2019). VMI & TPL supply chain coordination based on evolutionary game. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 2, pp. 215-2222. <a href="https://doi.org/10.18280/jesa.520215">https://doi.org/10.18280/jesa.520215</a>
611	Ram, J., Xu, D.	Live streaming video e-commerce: Examining the operational strategies	live streaming video (LSV), social media, esports, online games, ecommerce strategies	52, 1, 1-9	<a href="https://doi.org/10.18280/jesa.520101">https://doi.org/10.18280/jesa.520101</a>	Ram, J., Xu, D. (2019). Live streaming video e-commerce: Examining the operational strategies. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 1, pp. 1-9. <a href="https://doi.org/10.18280/jesa.520101">https://doi.org/10.18280/jesa.520101</a>
612	Kiran, A.V.N.S., Santosh Kumar, B., Loknath, M., Saleemuddin, S.M., Nagendra, S.	Experimental studies on two stroke SI engine by using novel piston and gasoline blends	performance parameters, un burnt hydro carbons emissions, CO emissions, ethanol, and methanol	52, 1, 11-15	<a href="https://doi.org/10.18280/jesa.520102">https://doi.org/10.18280/jesa.520102</a>	Kiran, A.V.N.S., Santosh Kumar, B., Loknath, M., Saleemuddin, S.M., Nagendra, S. (2019). Experimental studies on two stroke SI engine by using novel piston and gasoline blends. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 1, pp. 11-15. <a href="https://doi.org/10.18280/jesa.520102">https://doi.org/10.18280/jesa.520102</a>
613	Dong, B.K., Zhu, X.N., Yan, R., Wang, Y.	Development of optimization model and algorithm for storage and retrieval in automated stereo warehouses	Automated Storage and Retrieval System (AS/RS), multiple carriers, goods location allocation, picking path, integrated optimization	52, 1, 17-22	<a href="https://doi.org/10.18280/jesa.520103">https://doi.org/10.18280/jesa.520103</a>	Dong, B.K., Zhu, X.N., Yan, R., Wang, Y. (2019). Development of optimization model and algorithm for storage and retrieval in automated stereo warehouses. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 1, pp. 17-22. <a href="https://doi.org/10.18280/jesa.520103">https://doi.org/10.18280/jesa.520103</a>
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619	Katuri, R., Gorantla, S.	Performance and comparative analysis of math function based controller combined with PID and PI for smooth transition of energy sources	HESS, hybrid electric vehicle, electric vehicle, battery, ultra-capacitor, Unidirectional converter, bi-directional converter, MFB controller, proportional integral (PI) controller, proportional integral derivative (PID) controller	52, 1, 65-72	<a href="https://doi.org/10.18280/jesa.520109">https://doi.org/10.18280/jesa.520109</a>	Katuri, R., Gorantla, S. (2019). Performance and comparative analysis of math function based controller combined with PID and PI for smooth transition of energy sources. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 1, pp. 65-72. <a href="https://doi.org/10.18280/jesa.520109">https://doi.org/10.18280/jesa.520109</a>
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621	Gorantla, S., Katuri, R.	A comparative study of ANN and pi controllers combined with MFB implemented to hybrid energy storage system for smooth switching between battery and ultracapacitor	battery, Ultracapacitor (UC), Bidirectional Converter (BDC), Unidirectional Converter, Math Function Based (MFB) Controller, Proportional-Integral (PI) Controller, Artificial Neural Network (ANN) Controller, Electric Vehicles (EVs), solar power	52, 1, 79-86	<a href="https://doi.org/10.18280/jesa.520111">https://doi.org/10.18280/jesa.520111</a>	Gorantla, S., Katuri, R. (2019). A comparative study of ANN and pi controllers combined with MFB implemented to hybrid energy storage system for smooth switching between battery and ultracapacitor. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 1, pp. 79-86. <a href="https://doi.org/10.18280/jesa.520111">https://doi.org/10.18280/jesa.520111</a>
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626	Suresh, K., Babu, A.R.V., Venkatesh, P.M.	Design and analysis of an intelligent controller for wind-solar hybrid energy conversion system	main controller, speedgoat, DSPIC, grid, wind and solar	51, 4-6, 225-237	<a href="https://doi.org/10.3166/JESA.51.225-237">https://doi.org/10.3166/JESA.51.225-237</a>	Suresh, K., Babu, A.R.V., Venkatesh, P.M. (2018). Design and analysis of an intelligent controller for wind-solar hybrid energy conversion system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 4-6, pp. 225-237. <a href="https://doi.org/10.3166/JESA.51.225-237">https://doi.org/10.3166/JESA.51.225-237</a>
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629	Tan, J., Wang, Z.G., Jiang, G.Q.	Modelling and simulation of the balance of supply chain ecosystem	supply chain ecosystem, balance, information volume, information quality, information dissemination speed, information decomposition speed	51, 4-6, 273-281	<a href="https://doi.org/10.3166/JESA.51.273-281">https://doi.org/10.3166/JESA.51.273-281</a>	Tan, J., Wang, Z.G., Jiang, G.Q. (2018). Modelling and simulation of the balance of supply chain ecosystem. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 4-6, pp. 273-281. <a href="https://doi.org/10.3166/JESA.51.273-281">https://doi.org/10.3166/JESA.51.273-281</a>
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631	Fu, H.H., Xu, J.J., Zhang, H., Zhang, M., Xu, X.X.	Fault diagnosis of wireless sensor network based on optimized probabilistic neural network	wireless sensor network (WSN), probabilistic neural network (PNN), fault diagnosis, rough set	51, 4-6, 295-308	<a href="https://doi.org/10.3166/JESA.51.295-308">https://doi.org/10.3166/JESA.51.295-308</a>	Fu, H.H., Xu, J.J., Zhang, H., Zhang, M., Xu, X.X. (2018). Fault diagnosis of wireless sensor network based on optimized probabilistic neural network. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 4-6, pp. 295-308. <a href="https://doi.org/10.3166/JESA.51.295-308">https://doi.org/10.3166/JESA.51.295-308</a>
632	Nuthalapati, B., Sinha, U.K.	Detection of downed or Broken power line Fault not touching the ground	high impedance faults (HIF'S), active smart wires (ASW), distributed series reactance (DSR), F-PLCCG (frequency power line carrier communication guardian	51, 4-6, 309-321	<a href="https://doi.org/10.3166/JESA.51.309-321">https://doi.org/10.3166/JESA.51.309-321</a>	Nuthalapati, B., Sinha, U.K. (2018). Detection of downed or Broken power line Fault not touching the ground. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 4-6, pp. 309-321. <a href="https://doi.org/10.3166/JESA.51.309-321">https://doi.org/10.3166/JESA.51.309-321</a>
633	Li, B., Guo, C., Ning, T.	An improved bacterial foraging optimization for multi-objective flexible job-shop scheduling problem	multi-objective flexible scheduling, bacteria foraging optimization algorithm, additional turning, multi-attribute grey target decision	51, 4-6, 323-332	<a href="https://doi.org/10.3166/JESA.51.323-332">https://doi.org/10.3166/JESA.51.323-332</a>	Li, B., Guo, C., Ning, T. (2018). An improved bacterial foraging optimization for multi-objective flexible job-shop scheduling problem. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 4-6, pp. 323-332. <a href="https://doi.org/10.3166/JESA.51.323-332">https://doi.org/10.3166/JESA.51.323-332</a>
634	Huang, L.L., Zhou, K.	Modeling and application of an embedded real-time system based on real-time colored Petri net	colored petri net, embedded real-time system, formal modeling, model simulation	51, 4-6, 333-345	<a href="https://doi.org/10.3166/JESA.51.333-345">https://doi.org/10.3166/JESA.51.333-345</a>	Huang, L.L., Zhou, K. (2018). Modeling and application of an embedded real-time system based on real-time colored Petri net. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 4-6, pp. 333-345. <a href="https://doi.org/10.3166/JESA.51.333-345">https://doi.org/10.3166/JESA.51.333-345</a>
635	Djellal, A., Lakel, R.	Adapted reference input to control PID-based active suspension system	active suspension system, pid controller, quarter car model, passive suspension system	51, 1-3, 7-23	<a href="https://doi.org/10.3166/JESA.51.7-23">https://doi.org/10.3166/JESA.51.7-23</a>	Djellal, A., Lakel, R. (2018). Adapted reference input to control PID-based active suspension system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 7-23. <a href="https://doi.org/10.3166/JESA.51.7-23">https://doi.org/10.3166/JESA.51.7-23</a>
636	Kumar, K.C.R., Dandibhotla, T.S., Bulusu, V.V.	Learned ontology guided opinions analysis of extracted aspects from online product reviews	online reviews, product aspects, opinions, adjective, lexical variations, implicit opinions, ontology learning, semantic orientation	51, 1-3, 25-49	<a href="https://doi.org/10.3166/JESA.51.25-49">https://doi.org/10.3166/JESA.51.25-49</a>	Kumar, K.C.R., Dandibhotla, T.S., Bulusu, V.V. (2018). Learned ontology guided opinions analysis of extracted aspects from online product reviews. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 25-49. <a href="https://doi.org/10.3166/JESA.51.25-49">https://doi.org/10.3166/JESA.51.25-49</a>
637	Li, H.C., Yan, Z.W.	A flexible retraction cable reel based on planetary gear drive	cable reel, flexible retraction, friction disk, planetary gear, torque	51, 1-3, 51-58	<a href="https://doi.org/10.3166/JESA.51.51-58">https://doi.org/10.3166/JESA.51.51-58</a>	Li, H.C., Yan, Z.W. (2018). A flexible retraction cable reel based on planetary gear drive. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 51-58. <a href="https://doi.org/10.3166/JESA.51.51-58">https://doi.org/10.3166/JESA.51.51-58</a>
638	Zhang, S., Cao, D.X., Li, S., Min, H., Fan, F.	Inverse kinematic tension analysis and optimal design of a cable-driven parallel-series hybrid joint towards wheelchair-mounted robotic manipulator	wheelchair-mounted robotic manipulator (WORM), cable-driven, hybrid mechanism, spring lateral buckling	51, 1-3, 59-74	<a href="https://doi.org/10.3166/JESA.51.59-74">https://doi.org/10.3166/JESA.51.59-74</a>	Zhang, S., Cao, D.X., Li, S., Min, H., Fan, F. (2018). Inverse kinematic tension analysis and optimal design of a cable-driven parallel-series hybrid joint towards wheelchair-mounted robotic manipulator. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 59-74. <a href="https://doi.org/10.3166/JESA.51.59-74">https://doi.org/10.3166/JESA.51.59-74</a>
639	Cui, L.M., Liao, Y.L., Zheng, D.Z.	A design method of preview controller for discrete-time systems with multiple input delays	discrete-time system, input delays, preview control, lifting method	51, 1-3, 75-87	<a href="https://doi.org/10.3166/JESA.51.75-87">https://doi.org/10.3166/JESA.51.75-87</a>	Cui, L.M., Liao, Y.L., Zheng, D.Z. (2018). A design method of preview controller for discrete-time systems with multiple input delays. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 75-87. <a href="https://doi.org/10.3166/JESA.51.75-87">https://doi.org/10.3166/JESA.51.75-87</a>
640	Dutta, P., Kumar, A.	Design an intelligent flow measurement technique by optimized fuzzy logic controller	flow sensor, modelling, fuzzy logic controller, membership function	51, 1-3, 89-107	<a href="https://doi.org/10.3166/JESA.51.89-107">https://doi.org/10.3166/JESA.51.89-107</a>	Dutta, P., Kumar, A. (2018). Design an intelligent flow measurement technique by optimized fuzzy logic controller. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 89-107. <a href="https://doi.org/10.3166/JESA.51.89-107">https://doi.org/10.3166/JESA.51.89-107</a>



641	Wang, S.H., Mao, C.S.	Evaluation of regional manufacturing quality competitiveness based on analytic network	manufacturing quality competitiveness (MQC), analytic network process (ANP), super decision (SD), quality bases, quality subjects, quality supports, quality benefits	51, 1-3, 109-124	<a href="https://doi.org/10.3166/JESA.51.109-124">https://doi.org/10.3166/JESA.51.109-124</a>	Wang, S.H., Mao, C.S. (2018). Evaluation of regional manufacturing quality competitiveness based on analytic network. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 109-124. <a href="https://doi.org/10.3166/JESA.51.109-124">https://doi.org/10.3166/JESA.51.109-124</a>
642	Lan, C.F.	Coordination of vendor managed inventory supply chain with price-sensitive demand under consumer balking behaviour	VMI, CBB, supply chain, retail price, coordination	51, 1-3, 125-140	<a href="https://doi.org/10.3166/JESA.51.125-140">https://doi.org/10.3166/JESA.51.125-140</a>	Lan, C.F. (2018). Coordination of vendor managed inventory supply chain with price-sensitive demand under consumer balking behavior. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 125-140. <a href="https://doi.org/10.3166/JESA.51.125-140">https://doi.org/10.3166/JESA.51.125-140</a>
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644	Huang, C.J., Zhou, X.H., Hou, D.S.	Online no-wait scheduling of leather workshop supply chain based on particle swarm optimization	particle swarm optimization (PSO), supply chain, leather workshop, no-wait scheduling	51, 1-3, 153-167	<a href="https://doi.org/10.3166/JESA.51.153-167">https://doi.org/10.3166/JESA.51.153-167</a>	Huang, C.J., Zhou, X.H., Hou, D.S. (2018). Online no-wait scheduling of leather workshop supply chain based on particle swarm optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 153-167. <a href="https://doi.org/10.3166/JESA.51.153-167">https://doi.org/10.3166/JESA.51.153-167</a>
645	Zhang, Y.Z., Li, Q.	Damage analysis of EMU frame considering randomness under different working conditions	emu, frame, dynamic stress test, working condition identification, fatigue strength evaluation, damage randomness	51, 1-3, 169-180	<a href="https://doi.org/10.3166/JESA.51.169-180">https://doi.org/10.3166/JESA.51.169-180</a>	Zhang, Y.Z., Li, Q. (2018). Damage analysis of EMU frame considering randomness under different working conditions. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 169-180. <a href="https://doi.org/10.3166/JESA.51.169-180">https://doi.org/10.3166/JESA.51.169-180</a>
646	Gao, J., Zhang, J.	Simulation and analysis of vehicle rear-end collision based on virtual proving ground technology	vehicles, safety performance, rear-end collision, virtual proving ground (VPG) technology, explicit dynamic finite-element theory	51, 1-3, 181-195	<a href="https://doi.org/10.3166/JESA.51.181-195">https://doi.org/10.3166/JESA.51.181-195</a>	Gao, J., Zhang, J. (2018). Simulation and analysis of vehicle rear-end collision based on virtual proving ground technology. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 51, No. 1-3, pp. 181-195. <a href="https://doi.org/10.3166/JESA.51.181-195">https://doi.org/10.3166/JESA.51.181-195</a>
647	Remlaoui, A., Nehari, D., Elmeriah, A., Laissaoui, M.	A TRNSYS model of a direct contact membrane distillation (DCMD) system coupled to a flat plate solar collector (FPC)	solar desalination, direct contact membrane distillation, flat plate solar collector, water treatment, TRNSYS	50, 4-6, 335-360	<a href="https://doi.org/10.3166/JESA.50.335-360">https://doi.org/10.3166/JESA.50.335-360</a>	Remlaoui, A., Nehari, D., Elmeriah, A., Laissaoui, M. (2017). A TRNSYS model of a direct contact membrane distillation (DCMD) system coupled to a flat plate solar collector (FPC). <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 335-360. <a href="https://doi.org/10.3166/JESA.50.335-360">https://doi.org/10.3166/JESA.50.335-360</a>
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649	Zhou, J., Wang, M.	A novel dynamic identification model for small unmanned helicopters	small unmanned helicopter, frequency domain identification, dynamic modeling, time domain verification	50, 4-6, 379-390	<a href="https://doi.org/10.3166/JESA.50.379-390">https://doi.org/10.3166/JESA.50.379-390</a>	Zhou, J., Wang, M. (2017). A novel dynamic identification model for small unmanned helicopters. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 379-390. <a href="https://doi.org/10.3166/JESA.50.379-390">https://doi.org/10.3166/JESA.50.379-390</a>
650	Soumya, R.M., Sheeja, K.L., Pathak, N.P.	Split ring resonator inspired microstrip filtenna for Ku-band application	antenna, filter, filtenna, defected ground structure, split ring resonator, band pass filter	50, 4-6, 391-403	<a href="https://doi.org/10.3166/JESA.50.391-403">https://doi.org/10.3166/JESA.50.391-403</a>	Soumya, R.M., Sheeja, K.L., Pathak, N.P. (2017). Split ring resonator inspired microstrip filtenna for Ku-band application. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 391-403. <a href="https://doi.org/10.3166/JESA.50.391-403">https://doi.org/10.3166/JESA.50.391-403</a>
651	Song, S.X., Sun, W.C., Xiao, F., Peng, S.L., An, J.Y., Wang, D.	A novel coordinated control algorithm for distributed driving electric vehicles	vehicle dynamics, distributed driving electric vehicle, Electric Stability Control (ESC), Drive Force Assisted Steering (DFAS)	50, 4-6, 405-421	<a href="https://doi.org/10.3166/JESA.50.405-421">https://doi.org/10.3166/JESA.50.405-421</a>	Song, S.X., Sun, W.C., Xiao, F., Peng, S.L., An, J.Y., Wang, D. (2017). A novel coordinated control algorithm for distributed driving electric vehicles. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 405-421. <a href="https://doi.org/10.3166/JESA.50.405-421">https://doi.org/10.3166/JESA.50.405-421</a>
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654	Dutta, P., Kumar, A.	Design an intelligent calibration technique using optimized GA-ANN for liquid flow control system	liquid flow control process, anemometer type flow sensor, modelling, genetic algorithm, neural network model	50, 4-6, 449-470	<a href="https://doi.org/10.3166/JESA.50.449-470">https://doi.org/10.3166/JESA.50.449-470</a>	Dutta, P., Kumar, A. (2017). Design an intelligent calibration technique using optimized GA-ANN for liquid flow control system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 449-470. <a href="https://doi.org/10.3166/JESA.50.449-470">https://doi.org/10.3166/JESA.50.449-470</a>
655	Du, H.W., Xiong, W., Wang, H.T., Wang, Z.W.	Physical modeling and deformation simulation of flexible cable under the plane constraint	plane constraint, flexible cable, elastic rod theory, semi-analytical method, deformation simulation	50, 4-6, 471-484	<a href="https://doi.org/10.3166/JESA.50.471-484">https://doi.org/10.3166/JESA.50.471-484</a>	Du, H.W., Xiong, W., Wang, H.T., Wang, Z.W. (2017). Physical modeling and deformation simulation of flexible cable under the plane constraint. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 471-484. <a href="https://doi.org/10.3166/JESA.50.471-484">https://doi.org/10.3166/JESA.50.471-484</a>
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658	Pandi, C., Dandibhotla, T.S., Bulusu, V.V.	Reputation based online product recommendations	product aspects, opinions, aspect rank, frequent aspects, aspect reputation, product similarity, product recommendations	50, 4-6, 521-543	<a href="https://doi.org/10.3166/JESA.50.521-543">https://doi.org/10.3166/JESA.50.521-543</a>	Pandi, C., Dandibhotla, T.S., Bulusu, V.V. (2017). Reputation based online product recommendations. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 4-6, pp. 521-543. <a href="https://doi.org/10.3166/JESA.50.521-543">https://doi.org/10.3166/JESA.50.521-543</a>
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663	Srivastava, M., Sinha, M.K.	Computational analysis of encapsulated phase change materials latent heat thermal energy storage system	conduction, HTF, interface position, melting, phase change materials, TEEs	50, 3, 227-239	<a href="https://doi.org/10.3166/JESA.50.227-239">https://doi.org/10.3166/JESA.50.227-239</a>	Srivastava, M., Sinha, M.K. (2017). Computational analysis of encapsulated phase change materials latent heat thermal energy storage system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 227-239. <a href="https://doi.org/10.3166/JESA.50.227-239">https://doi.org/10.3166/JESA.50.227-239</a>
664	Zhang, L., Zhang, Y.S., Jin, Q., Wang, D.M., Zhang, T.	A triple closed-loop control strategy for intelligent two-car chasing system based on particle swarm optimization	three closed-loop control, two-car chasing, particle swarm optimization (PSO), PID	50, 3, 241-256	<a href="https://doi.org/10.3166/JESA.50.241-256">https://doi.org/10.3166/JESA.50.241-256</a>	Zhang, L., Zhang, Y.S., Jin, Q., Wang, D.M., Zhang, T. (2017). A triple closed-loop control strategy for intelligent two-car chasing system based on particle swarm optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 241-256. <a href="https://doi.org/10.3166/JESA.50.241-256">https://doi.org/10.3166/JESA.50.241-256</a>
665	Katuri, R., Gorantla, S.	Design and comparative analysis of a control strategy approach implemented to hybrid energy storage system based electric vehicle	Electric Vehicles (EVs), Converters, Battery, Ultracapacitor (UC), Hybrid Energy Storage System (HESS)	50, 3, 257-284	<a href="https://doi.org/10.3166/JESA.50.257-284">https://doi.org/10.3166/JESA.50.257-284</a>	Katuri, R., Gorantla, S. (2017). Design and comparative analysis of a control strategy approach implemented to hybrid energy storage system based electric vehicle. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 257-284. <a href="https://doi.org/10.3166/JESA.50.257-284">https://doi.org/10.3166/JESA.50.257-284</a>
666	Wang, W.	Dynamic features and optimal lathe bed structure of horizontal machining center	natural frequency, dynamic performance, structural optimization	50, 3, 285-298	<a href="https://doi.org/10.3166/JESA.50.285-298">https://doi.org/10.3166/JESA.50.285-298</a>	Wang, W. (2017). Dynamic features and optimal lathe bed structure of horizontal machining center. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 285-298. <a href="https://doi.org/10.3166/JESA.50.285-298">https://doi.org/10.3166/JESA.50.285-298</a>
667	Koochaki, M., Lotfi, M.	Design of a neural network controller for the electrode control system in the electric arc furnace	Electric Arc Furnace (EAF), electrode control system, Neural Energy Control (NEC)	50, 3, 299-311	<a href="https://doi.org/10.3166/JESA.50.299-311">https://doi.org/10.3166/JESA.50.299-311</a>	Koochaki, M., Lotfi, M. (2017). Design of a neural network controller for the electrode control system in the electric arc furnace. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 299-311. <a href="https://doi.org/10.3166/JESA.50.299-311">https://doi.org/10.3166/JESA.50.299-311</a>
668	Peng, J.S., Miao, J., Wei, Q.J., Wan, Z.W., Huang, Y.Y., Tang, S.J.	An indoor mobile robot positioning system based on radio-frequency identification	MATLAB GUI, RFID, positioning, indoor mobile robots, control box	50, 3, 313-322	<a href="https://doi.org/10.3166/JESA.50.313-322">https://doi.org/10.3166/JESA.50.313-322</a>	Peng, J.S., Miao, J., Wei, Q.J., Wan, Z.W., Huang, Y.Y., Tang, S.J. (2017). An indoor mobile robot positioning system based on radio-frequency identification. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 313-322. <a href="https://doi.org/10.3166/JESA.50.313-322">https://doi.org/10.3166/JESA.50.313-322</a>
669	Wang, H.	Shortest route optimization of job-shop scheduling based on ant colony algorithm	Job-Shop Scheduling Problem (JSP), shortest route optimization, Ant Colony Algorithm (ACA), simulation, number of iterations	50, 3, 323-334	<a href="https://doi.org/10.3166/JESA.50.323-334">https://doi.org/10.3166/JESA.50.323-334</a>	Wang, H. (2017). Shortest route optimization of job-shop scheduling based on ant colony algorithm. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 3, pp. 323-334. <a href="https://doi.org/10.3166/JESA.50.323-334">https://doi.org/10.3166/JESA.50.323-334</a>
670	Louis, J., Jungers, M., Daafouz, J.	Consistency for switched Lur'e systems. Application to sampled data control with non uniform sampling	consistency of switched systems, Lur'e type nonlinear systems, non-uniform sampling, sampled data control	50, 1-2, 9-27	<a href="https://doi.org/10.3166/JESA.50.9-27">https://doi.org/10.3166/JESA.50.9-27</a>	Louis, J., Jungers, M., Daafouz, J. (2017). Consistency for switched Lur'e systems. Application to sampled data control with non uniform sampling. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 9-27. <a href="https://doi.org/10.3166/JESA.50.9-27">https://doi.org/10.3166/JESA.50.9-27</a>
671	Zabi, S., Queinnee, I., Tarbouriech, S., Garcia, G., Mazerolles, M.	New approach of anesthesia control based on dynamics decoupling	anesthesia, multi-scale system, reference tracking, robust control, saturated control	50, 1-2, 29-47	<a href="https://doi.org/10.3166/JESA.50.29-47">https://doi.org/10.3166/JESA.50.29-47</a>	Zabi, S., Queinnee, I., Tarbouriech, S., Garcia, G., Mazerolles, M. (2017). New approach of anesthesia control based on dynamics decoupling. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 29-47. <a href="https://doi.org/10.3166/JESA.50.29-47">https://doi.org/10.3166/JESA.50.29-47</a>
672	Taleb, M., Leclercq, E., Lefebvre, D.	Predictive control of dynamic hybride systems	continuous petri net, discrete petri net, elementary hybrid petri net, predictive control	50, 1-2, 49-74	<a href="https://doi.org/10.3166/JESA.50.49-74">https://doi.org/10.3166/JESA.50.49-74</a>	Taleb, M., Leclercq, E., Lefebvre, D. (2017). Predictive control of dynamic hybride systems. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 49-74. <a href="https://doi.org/10.3166/JESA.50.49-74">https://doi.org/10.3166/JESA.50.49-74</a>

673	Chambon, E., Burlion, L., Apkarian, P.	Similar Metzler matrix determination using non-smooth optimization	interval observers, multi-model synthesis, Nonsmooth optimization	50, 1-2, 75-94	<a href="https://doi.org/10.3166/JESA.50.75-94">https://doi.org/10.3166/JESA.50.75-94</a>	Chambon, E., Burlion, L., Apkarian, P. (2017). Similar Metzler matrix determination using non-smooth optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp.75-94. <a href="https://doi.org/10.3166/JESA.50.75-94">https://doi.org/10.3166/JESA.50.75-94</a>
674	Li, Q., Jauberthie, C., Denis-Vidal, L., Cherfi, Z., Maïga, M.	Optimal input design for parameter estimation for nonlinear dynamical systems with bounded-errors and application in aeronautic domain	bounded error, interval analysis, nonlinear system, optimal input design, parameter estimation, state estimation	50, 1-2, 95-115	<a href="https://doi.org/10.3166/JESA.50.95-115">https://doi.org/10.3166/JESA.50.95-115</a>	Li, Q., Jauberthie, C., Denis-Vidal, L., Cherfi, Z., Maïga, M. (2017). Optimal input design for parameter estimation for nonlinear dynamical systems with bounded-errors and application in aeronautic domain. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 95-115. <a href="https://doi.org/10.3166/JESA.50.95-115">https://doi.org/10.3166/JESA.50.95-115</a>
675	Ivanova, E., Malti, R., Moreau, X.	Frequency-domain subspace system identification with fractional differentiation models	fractional state-space representation, identification in frequency domain, deterministic and stochastic contexts, subspace method	50, 1-2, 117-135	<a href="https://doi.org/10.3166/JESA.50.117-135">https://doi.org/10.3166/JESA.50.117-135</a>	Ivanova, E., Malti, R., Moreau, X. (2017). Frequency-domain subspace system identification with fractional differentiation models. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 117-135. <a href="https://doi.org/10.3166/JESA.50.117-135">https://doi.org/10.3166/JESA.50.117-135</a>
676	Jedidi, S., Bourdais, R., Buisson, J., Lefebvre, M.A.	Structural identifiability and decentralized identification for systems coupled by their outputs	decentralized identification, identifiability, large scale systems	50, 1-2, 137-155	<a href="https://doi.org/10.3166/JESA.50.137-155">https://doi.org/10.3166/JESA.50.137-155</a>	Jedidi, S., Bourdais, R., Buisson, J., Lefebvre, M.A. (2017). Structural identifiability and decentralized identification for systems coupled by their outputs. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 137-155. <a href="https://doi.org/10.3166/JESA.50.137-155">https://doi.org/10.3166/JESA.50.137-155</a>
677	Lalami, I., Frein, Y., Gayon, J.P.	Demand variability and value of information sharing in the supply chain. A case study in the automotive industry	demand variability, information sharing, inventory management	50, 1-2, 157-186	<a href="https://doi.org/10.3166/JESA.50.157-186">https://doi.org/10.3166/JESA.50.157-186</a>	Lalami, I., Frein, Y., Gayon, J.P. (2017). Demand variability and value of information sharing in the supply chain. A case study in the automotive industry. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 50, No. 1-2, pp. 157-186. <a href="https://doi.org/10.3166/JESA.50.157-186">https://doi.org/10.3166/JESA.50.157-186</a>