

| No. | Co-authors | Article title | Keywords | Vol., No., pp. | DOI | Citation |
|-----|---|---|---|----------------|---|--|
| 1 | 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 | https://doi.org/10.18280/jesa.530601 | 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. https://doi.org/10.18280/jesa.530601 |
| 2 | 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 | https://doi.org/10.18280/jesa.530602 | 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. https://doi.org/10.18280/jesa.530602 |
| 3 | 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 | https://doi.org/10.18280/jesa.530603 | 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. https://doi.org/10.18280/jesa.530603 |
| 4 | 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 | https://doi.org/10.18280/jesa.530604 | 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. https://doi.org/10.18280/jesa.530604 |
| 5 | 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 | https://doi.org/10.18280/jesa.530605 | 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. https://doi.org/10.18280/jesa.530605 |
| 6 | 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 | https://doi.org/10.18280/jesa.530606 | 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. https://doi.org/10.18280/jesa.530606 |
| 7 | 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 | https://doi.org/10.18280/jesa.530607 | 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. https://doi.org/10.18280/jesa.530607 |
| 8 | 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 | https://doi.org/10.18280/jesa.530608 | 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. https://doi.org/10.18280/jesa.530608 |
| 9 | 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 | https://doi.org/10.18280/jesa.530609 | 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. https://doi.org/10.18280/jesa.530609 |
| 10 | Berkani, A., Bey, M., Araria, R., Allouai, 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 | https://doi.org/10.18280/jesa.530610 | Berkani, A., Bey, M., Araria, R., Allouai, 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. https://doi.org/10.18280/jesa.530610 |
| 11 | 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 | https://doi.org/10.18280/jesa.530611 | 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. https://doi.org/10.18280/jesa.530611 |
| 12 | 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 model, position and capacity determination | 53, 6, 861-867 | https://doi.org/10.18280/jesa.530612 | 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. https://doi.org/10.18280/jesa.530612 |
| 13 | 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 | https://doi.org/10.18280/jesa.530613 | 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. https://doi.org/10.18280/jesa.530613 |
| 14 | 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 | https://doi.org/10.18280/jesa.530614 | 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. https://doi.org/10.18280/jesa.530614 |
| 15 | 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 | https://doi.org/10.18280/jesa.530615 | 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. https://doi.org/10.18280/jesa.530615 |
| 16 | Belouachfi, 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 | https://doi.org/10.18280/jesa.530616 | Belouachfi, 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. https://doi.org/10.18280/jesa.530616 |
| 17 | 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 (INSGA-II) | 53, 6, 915-924 | https://doi.org/10.18280/jesa.530617 | 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. https://doi.org/10.18280/jesa.530617 |
| 18 | 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 | https://doi.org/10.18280/jesa.530618 | 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. https://doi.org/10.18280/jesa.530618 |
| 19 | 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 | https://doi.org/10.18280/jesa.530619 | 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. https://doi.org/10.18280/jesa.530619 |
| 20 | 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 | https://doi.org/10.18280/jesa.530620 | 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. https://doi.org/10.18280/jesa.530620 |

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| 21 | 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 | https://doi.org/10.18280/jesa.530621 | 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. https://doi.org/10.18280/jesa.530621 |
| 22 | Minh, V.T., Tamre, M., Musalimov, V., Kovalenko, P., Rubinshtein, I., Ovchinnikov, I., Krčmarik, D., Moezzi, R., Hlava, J. | Model predictive control for modeling human gait motions assisted by Vicon technology | human gait plant, human gait model, central nervous system, model predictive control, 5-link mechanism, Vicon motion capture | 53, 5, 589-600 | https://doi.org/10.18280/jesa.530501 | Minh, V.T., Tamre, M., Musalimov, V., Kovalenko, P., Rubinshtein, I., Ovchinnikov, I., Krčmarik, D., Moezzi, R., Hlava, J. (2020). Model predictive control for modeling human gait motions assisted by Vicon technology. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 589-600. https://doi.org/10.18280/jesa.530501 |
| 23 | Adjati, A., Rekioua, T., Rekioua, D., Tounzi, A. | Study of dual stator induction motor in photovoltaic-fuel cell hybrid pumping application | centrifugal pump, dual stator induction motor (DSIM), fuel cell (FC), hybrid pumping system (HPS), photovoltaic generator (GPV), renewable energy | 53, 5, 601-608 | https://doi.org/10.18280/jesa.530502 | Adjati, A., Rekioua, T., Rekioua, D., Tounzi, A. (2020). Study of dual stator induction motor in photovoltaic-fuel cell hybrid pumping application. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 601-608. https://doi.org/10.18280/jesa.530502 |
| 24 | 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 | https://doi.org/10.18280/jesa.530503 | 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. https://doi.org/10.18280/jesa.530503 |
| 25 | 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 | https://doi.org/10.18280/jesa.530504 | 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. https://doi.org/10.18280/jesa.530504 |
| 26 | 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 | https://doi.org/10.18280/jesa.530505 | 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. https://doi.org/10.18280/jesa.530505 |
| 27 | 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 | https://doi.org/10.18280/jesa.530506 | 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. https://doi.org/10.18280/jesa.530506 |
| 28 | 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 | https://doi.org/10.18280/jesa.530507 | 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. https://doi.org/10.18280/jesa.530507 |
| 29 | 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 | https://doi.org/10.18280/jesa.530508 | 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. https://doi.org/10.18280/jesa.530508 |
| 30 | 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 ∞ controls theory, robustness analysis | 53, 5, 661-670 | https://doi.org/10.18280/jesa.530509 | 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. https://doi.org/10.18280/jesa.530509 |
| 31 | Lemita, A., Boulabbel, 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 | https://doi.org/10.18280/jesa.530510 | Lemita, A., Boulabbel, 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. https://doi.org/10.18280/jesa.530510 |
| 32 | 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 | https://doi.org/10.18280/jesa.530511 | Liu, J.L., Li, K. (2020). Design of an intelligent symptom differentiation and electrical stimulation rehabilitation system. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 681-693. https://doi.org/10.18280/jesa.530511 |
| 33 | 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)-PID Δ controller | FOCDM-PID Δ controller, PSO algorithm, CDM-PID controller, NOx emission control | 53, 5, 695-703 | https://doi.org/10.18280/jesa.530512 | 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)-PID Δ controller. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 695-703. https://doi.org/10.18280/jesa.530512 |
| 34 | Khellil, J., Khellil, K., Ramdani, M., Boutaseta, 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 | https://doi.org/10.18280/jesa.530513 | Khellil, J., Khellil, K., Ramdani, M., Boutaseta, N. (2020). Discrete wavelet design for bearing fault diagnosis using particle swarm optimization. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 705-713. https://doi.org/10.18280/jesa.530513 |
| 35 | 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 | https://doi.org/10.18280/jesa.530514 | Gao, L., Dou, H.D. (2020). Inventory management of railway logistics park based on artificial neural network. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 715-723. https://doi.org/10.18280/jesa.530514 |
| 36 | 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 | https://doi.org/10.18280/jesa.530515 | Kotapuri, M.R., Samala, R.K. (2020). Fuzzy logic controlled based ant-lion optimization hybridization for economic power dispatch. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 725-731. https://doi.org/10.18280/jesa.530515 |
| 37 | 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 | https://doi.org/10.18280/jesa.530516 | Wang, H.Y. (2020). Three-dimensional image recognition of athletes' wrong motions based on edge detection. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 733-738. https://doi.org/10.18280/jesa.530516 |
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| 39 | 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 | https://doi.org/10.18280/jesa.530518 | Li, L., Zhao, R.H., Li, C.L. (2020). Path planning for chainable non-holonomic system based on iterative learning control. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 5, pp. 747-753. https://doi.org/10.18280/jesa.530518 |
| 40 | Bounasla, N., Barkat, S. | Optimum design of fractional order PI Δ 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 | https://doi.org/10.18280/jesa.530401 | Bounasla, N., Barkat, S. (2020). Optimum design of fractional order PI Δ speed controller for predictive direct torque control of a sensorless five-phase Permanent Magnet Synchronous Machine (PMSM). <i>Journal Européen des Systèmes Automatisés</i> , Vol. 53, No. 4, pp. 437-449. https://doi.org/10.18280/jesa.530401 |

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| 126 | Abdelrazik, M.A., Elsheikh, A.T., Zayan, M.A., Elhady, A.B.M. | A novel systems engineering methodology based on transdisciplinary quality system development lifecycle model. <i>Journal Européen des Systèmes Automatisés</i> | Transdisciplinary Quality System Development Lifecycle (TQSDL) Model, Model-Based Systems Engineering (MBSE), Dependency Structure Matrix (DSM), Quality Function Deployment (QFD), Systems Engineering (SE) | 52, 5, 465-476 | https://doi.org/10.18280/jesa.520505 | Abdelrazik, M.A., Elsheikh, A.T., Zayan, M.A., Elhady, A.B.M. (2019). A novel systems engineering methodology based on transdisciplinary quality system development lifecycle model. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 465-476. https://doi.org/10.18280/jesa.520505 |
| 127 | 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 | https://doi.org/10.18280/jesa.520506 | 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. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 477-484. https://doi.org/10.18280/jesa.520506 |
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| 131 | Deng, F., Liu, X.Y., Zhang, N., Zhang, F.X. | Dimension synthesis of a 3TR labelling robot with hybrid mechanism | hybrid mechanism, dimension synthesis, jacobian matrix, pareto frontier approach, multi-objective optimization | 52, 5, 509-514 | https://doi.org/10.18280/jesa.520510 | Deng, F., Liu, X.Y., Zhang, N., Zhang, F.X. (2019). Dimension synthesis of a 3TR labelling robot with hybrid mechanism. <i>Journal Européen des Systèmes Automatisés</i> , Vol. 52, No. 5, pp. 509-514. https://doi.org/10.18280/jesa.520510 |
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| 133 | Khaldi, L., Ifouzar, 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 | https://doi.org/10.18280/jesa.520512 | Khaldi, L., Ifouzar, 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. https://doi.org/10.18280/jesa.520512 |
| 134 | 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 | https://doi.org/10.18280/jesa.520513 | 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. https://doi.org/10.18280/jesa.520513 |
| 135 | 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 | https://doi.org/10.18280/jesa.520514 | 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. https://doi.org/10.18280/jesa.520514 |
| 136 | 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 | https://doi.org/10.18280/jesa.520401 | 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. https://doi.org/10.18280/jesa.520401 |
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| 138 | 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 | https://doi.org/10.18280/jesa.520403 | 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. https://doi.org/10.18280/jesa.520403 |
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| 141 | 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 | https://doi.org/10.18280/jesa.520406 | 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. https://doi.org/10.18280/jesa.520406 |
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| 152 | 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 | https://doi.org/10.18280/jesa.520304 | 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. https://doi.org/10.18280/jesa.520304 |
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| 159 | 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 | https://doi.org/10.18280/jesa.520311 | 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. https://doi.org/10.18280/jesa.520311 |
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