

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Sugiharto, W.H., Susanto, H., Prasetijo, A.B.	Selecting IoT-Enabled Water Quality Index Parameters for Smart Environmental Management	water quality, Water Quality Index, Internet of Things, physico-chemical sensors, real-time monitoring	23, 4, 253-263	https://doi.org/10.18280/i2m.230401	Sugiharto, W.H., Susanto, H., Prasetijo, A.B. (2024). Selecting IoT-enabled Water Quality Index parameters for smart environmental management. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 253-263. https://doi.org/10.18280/i2m.230401
2	Jamel, A.A.J., Dawood, Z.T.	Generation Rainfall Intensity Equations for Intensity Duration Frequency (IDF) Curves (Case Study: Salah Al-Din, Iraq)	rainfall, duration, frequency, IDF curves, statistical analysis	23, 4, 265-275	https://doi.org/10.18280/i2m.230402	Jamel, A.A.J., Dawood, Z.T. (2024). Generation rainfall intensity equations for intensity duration frequency (IDF) curves (Case study: Salah Al-Din, Iraq). <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 265-275. https://doi.org/10.18280/i2m.230402
3	Thang, N.T.	Ultrasonic Spike Signal Analysis for Subcooled Boiling Condensation Measurement	ultrasonic velocity profile method, UVP, spike signal, condensation, subcooled boiling, measurement uncertainty	23, 4, 277-285	https://doi.org/10.18280/i2m.230403	Thang, N.T. (2024). Ultrasonic spike signal analysis for subcooled boiling condensation measurement. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 277-285. https://doi.org/10.18280/i2m.230403
4	Al-Neami, A.Q.	Design and Application of an Electric Appliance for Measuring the Systolic and Diastolic Pressure	cardiac electrical activity, cardiac cycle, heart muscle systolic and diastolic phase, blood pressure	23, 4, 287-296	https://doi.org/10.18280/i2m.230404	Al-Neami, A.Q. (2024). Design and application of an electric appliance for measuring the systolic and diastolic pressure. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 287-296. https://doi.org/10.18280/i2m.230404
5	Arya, G., Bagwari, A., Agarwal, S., Aneja, J.K., Rodriguez, C.	A Comparative Analysis of Early Fusion Architectures for Multimodal Gas Detection Using Machine Learning Models	multi-sensor data fusion, gas classification, machine learning, early fusion, VGG19, Random Forest Classifier	23, 4, 297-306	https://doi.org/10.18280/i2m.230405	Arya, G., Bagwari, A., Agarwal, S., Aneja, J.K., Rodriguez, C. (2024). A comparative analysis of early fusion architectures for multimodal gas detection using machine learning models. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 297-306. https://doi.org/10.18280/i2m.230405
6	Mohammed, L.A., Hasan, A.M., Hamza, E.K.	Optimizing Energy Efficiency in Wireless Sensor Networks Using Dijkstra's Algorithm	Wireless Sensor Networks (WSNs), energy efficiency, Dijkstra's algorithm, routing protocols, optimization	23, 4, 307-316	https://doi.org/10.18280/i2m.230406	Mohammed, L.A., Hasan, A.M., Hamza, E.K. (2024). Optimizing energy efficiency in wireless sensor networks using Dijkstra's algorithm. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 307-316. https://doi.org/10.18280/i2m.230406
7	Tizzaoui, M., Draoui, B.	The Experimental Investigation of the Transient Regime of Solar Electric-Vapor Compression Refrigeration Systems under Desert Weather Conditions	vapor compression refrigeration systems, measurement data, performance COP, condensing phenomenon, ambient temperature, pressure level, cold storage, solar PV, Saharan environment, remote areas	23, 4, 317-327	https://doi.org/10.18280/i2m.230407	Tizzaoui, M., Draoui, B. (2024). The experimental investigation of the transient regime of solar electric-vapor compression refrigeration systems under desert weather conditions. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 317-327. https://doi.org/10.18280/i2m.230407
8	Al Bayaty, M.A.	Detection and Analysis the Change in LULC in Some Riparian Area of Euphrates River through Using Land Sat Data and GIS Technique	Land Use/Land Cover (LULC), Geographic Information System (GIS), Euphrates basin, change detection, Remote Sensing, Iraq	23, 4, 329-338	https://doi.org/10.18280/i2m.230408	Al Bayaty, M.A. (2024). Detection and analysis the change in LULC in some riparian area of euphrates river through using land sat data and GIS technique. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 4, pp. 329-338. https://doi.org/10.18280/i2m.230408
9	Sagandykova, D., Ussipbayev, G., Khassamdinova, E., Omarbekova, A., Jangarasheva, N.	Scientific Foundations of Application of New Effective Technologies in Land Surveying Studies (On the Example of Talgar District, Almaty Region)	geodesy, geoinformation technology, resource management, terrain, artificial intelligence	23, 3, 183-191	https://doi.org/10.18280/i2m.230301	Sagandykova, D., Ussipbayev, G., Khassamdinova, E., Omarbekova, A., Jangarasheva, N. (2024). Scientific foundations of application of new effective technologies in land surveying studies (On the example of Talgar district, Almaty region). <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 183-191. https://doi.org/10.18280/i2m.230301
10	Mokhtar, A.H., Rashad, R.M., Osman, T.A., Eltawil, A.A., Gelany, S.A.	Numerical Modeling and Analysis of the Pressure Pulse Generated by Drop Mass Calibration Device	bulk modulus, calibration, dynamic pressure, drop mass device, effective bulk modulus	23, 3, 193-198	https://doi.org/10.18280/i2m.230302	Mokhtar, A.H., Rashad, R.M., Osman, T.A., Eltawil, A.A., Gelany, S.A. (2024). Numerical modeling and analysis of the pressure pulse generated by drop mass calibration device. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 193-198. https://doi.org/10.18280/i2m.230302
11	Al-Mumen, H.	Towards a Practical Powerless ZnO Nanorods Touch Sensor Fabricated on a Silicon and a Flexible Polyamide Substrate	nanorods, touch sensor, flexible, ZnO, piezoelectric	23, 3, 199-204	https://doi.org/10.18280/i2m.230303	Al-Mumen, H. (2024). Towards a practical powerless ZnO nanorods touch sensor fabricated on a silicon and a flexible polyamide substrate. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 199-204. https://doi.org/10.18280/i2m.230303
12	Hendel, M., Kessairi, K., Brahami, M., Mansouri, A.	A MLP Neural Network-Based Unified Intelligent Model for Predicting Short-Gap Breakdown Voltages in Air	automatic regression, MLP neural network, short air gap, gradient backpropagation, breakdown voltage	23, 3, 205-215	https://doi.org/10.18280/i2m.230304	Hendel, M., Kessairi, K., Brahami, M., Mansouri, A. (2024). A MLP neural network-based unified intelligent model for predicting short-gap breakdown voltages in air. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 205-215. https://doi.org/10.18280/i2m.230304
13	Ajibade, G.A., Olorunsola, S.A., Ikumapayi, O.M., Omolofe, B., Laseinde, O.T.	Enhancing the Performance of CUSUM Schemes for Process Mean Monitoring: A Generalized Fast Initial Response Approach	generalized fast initial response for CUSUM charts, small shift detection, process mean monitoring, average run length (ARL), improved CUSUM charts	23, 3, 217-224	https://doi.org/10.18280/i2m.230305	Ajibade, G.A., Olorunsola, S.A., Ikumapayi, O.M., Omolofe, B., Laseinde, O.T. (2024). Enhancing the performance of CUSUM schemes for process mean monitoring: A generalized fast initial response approach. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 217-224. https://doi.org/10.18280/i2m.230305
14	Mohammad, H.M., Al Hasan, N.H.J., Jabbar, M.A.	Optimization of Sustainable Carbon Steel Turning Parameters	sustainable cutting, surface roughness, Lagrange optimization, cutting temperatures, feed rate	23, 3, 225-231	https://doi.org/10.18280/i2m.230306	Mohammad, H.M., Al Hasan, N.H.J., Jabbar, M.A. (2024). Optimization of sustainable carbon steel turning parameters. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 225-231. https://doi.org/10.18280/i2m.230306
15	Kumari, M., Gaikwad, M., Chavan, S.A.	Review on Open-Source IoT and Edge-Compatible Devices for Health Monitoring Applications	cyber-attack detection, IoT-based health monitoring, prevention measures, anomaly detection, secure communication methods	23, 3, 233-241	https://doi.org/10.18280/i2m.230307	Kumari, M., Gaikwad, M., Chavan, S.A. (2024). Review on open-source IoT and edge-compatible devices for health monitoring applications. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 233-241. https://doi.org/10.18280/i2m.230307
16	Khatib, N., Ouacha, E.H., Banouni, H., Hitar, M.E.H., Mostapha, L.E., Faiz, B., Décultot, D., Lotfi, H., Ousbih, M.	Effects of Temperature and Clay on Hydration Behavior of Mortar: A Study Through Ultrasound Technique	cement mortar, non-destructive testing, ultrasounds, curing temperature, natural clay	23, 3, 243-251	https://doi.org/10.18280/i2m.230308	Khatib, N., Ouacha, E.H., Banouni, H., Hitar, M.E.H., Mostapha, L.E., Faiz, B., Décultot, D., Lotfi, H., Ousbih, M. (2024). Effects of temperature and clay on hydration behavior of mortar: A study through ultrasound technique. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 3, pp. 243-251. https://doi.org/10.18280/i2m.230308

17	Thong-un, N., Panthong, P., Wongsaroj, W., Takahashi, H., Kikura, H.	Development of an Automatic Paddle Wheel Aerator and Remote Movement Water Quality Monitoring for Use in a Marine Shrimp Farm	Internet of Things (IoT), Paddle Wheel Aerator, shrimp, water quality measurement, wireless sensor	23, 2, 79-92	https://doi.org/10.18280/i2m.230201	Thong-un, N., Panthong, P., Wongsaroj, W., Takahashi, H., Kikura, H. (2024). Development of an automatic Paddle Wheel Aerator and remote movement water quality monitoring for use in a marine shrimp farm. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 79-92. https://doi.org/10.18280/i2m.230201
18	Jani, M.M.M., Hairuddin, M.A., Ja'afar, H., Rustam, I., Almisreb, A.A., Ashar, N.D.K.	Real-Time IoT-Blynk Application for Log Hive Weight Monitoring in Stingless Bees	hive, Internet of Thing, mobile monitoring, smart systems, stingless bees, weight sensors	23, 2, 93-102	https://doi.org/10.18280/i2m.230202	Jani, M.M.M., Hairuddin, M.A., Ja'afar, H., Rustam, I., Almisreb, A.A., Ashar, N.D.K. (2024). Real-time IoT-Blynk application for log hive weight monitoring in stingless bees. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 93-102. https://doi.org/10.18280/i2m.230202
19	Venkatesulu, S.T., Sharma, A., Patankar, V.H., Kaushik, A., Basak, A., Sinha, S.K.	High-Temperature Creep Measurement in Metallic Alloys Using Pulsed Eddy Current Sensors: Influence of Geometry and Magnetic Properties	Lift-off point of Intersection, pulsed eddy current testing, creep, metallic alloys, high-temperature operation, future generation nuclear reactors	23, 2, 103-111	https://doi.org/10.18280/i2m.230203	Venkatesulu, S.T., Sharma, A., Patankar, V.H., Kaushik, A., Basak, A., Sinha, S.K. (2024). High-temperature creep measurement in metallic alloys using pulsed eddy current sensors: Influence of geometry and magnetic properties. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 103-111. https://doi.org/10.18280/i2m.230203
20	Al-Neami, A.Q., Hussein, A.F., Raad, H.K., Al-Qazzaz, N.K.	Characterization and Analysis of Healthy and Carious Teeth Through Electrical Measurements	healthy teeth, carious teeth, bioimpedance, SEM test, EDX test, dental X-ray imaging	23, 2, 113-121	https://doi.org/10.18280/i2m.230204	Al-Neami, A.Q., Hussein, A.F., Raad, H.K., Al-Qazzaz, N.K. (2024). Characterization and analysis of healthy and carious teeth through electrical measurements. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 113-121. https://doi.org/10.18280/i2m.230204
21	Rahita, A.C., Zaki, A., Nugroho, G., Yadi, S.	Internet of Things (IoT) in Structural Health Monitoring: A Decade of Research Trends	bibliometric analysis, scientometric analysis, Internet of Things (IoT), Structural Health Monitoring (SHM), infrastructure	23, 2, 123-139	https://doi.org/10.18280/i2m.230205	Rahita, A.C., Zaki, A., Nugroho, G., Yadi, S. (2024). Internet of Things (IoT) in structural health monitoring: A decade of research trends. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 123-139. https://doi.org/10.18280/i2m.230205
22	Abdul-Sahib, A.A., Abdul-Sahib, T.J.	Mitigation Strategies to Reduce Detrimental Effects of Air Bubbles in Shaft Spillways: A Literature Review	air pocket, air entrainment, air bubbles, spillways, air management, air blow out, slug flow	23, 2, 141-159	https://doi.org/10.18280/i2m.230206	Abdul-Sahib, A.A., Abdul-Sahib, T.J. (2024). Mitigation strategies to reduce detrimental effects of air bubbles in shaft spillways: A literature review. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 141-159. https://doi.org/10.18280/i2m.230206
23	Ghani, N.M.A., Lim, W.J., Hoh, W.S., Hassan, S.A.A.	Rehabilitation and Home Health Monitoring Based-AI Scheduling Application for Coronary Artery Disease and Cardiovascular Patients	long COVID-19, coronary artery disease, cardiovascular fitness, heart rate, VO2 max, health monitoring	23, 2, 161-173	https://doi.org/10.18280/i2m.230207	Ghani, N.M.A., Lim, W.J., Hoh, W.S., Hassan, S.A.A. (2024). Rehabilitation and home health monitoring based-AI scheduling application for coronary artery disease and cardiovascular patients. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 161-173. https://doi.org/10.18280/i2m.230207
24	Alaoui, Nail, Amel, B.A., Aya, Z.	Tri-Band Frequency Reconfigurable Antenna for Wireless Applications	dual-frequency mode, dual band, WIFI, Reconfigurable, WIMAX, monopole, WLAN, dual frequency mode, switchable	23, 2, 175-182	https://doi.org/10.18280/i2m.230208	Alaoui, Nail, Amel, B.A., Aya, Z. (2024). Tri-band frequency reconfigurable antenna for wireless applications. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 2, pp. 175-182. https://doi.org/10.18280/i2m.230208
25	Okokpujie, I.P., Avwunu, O., Akande, S., Dada, O.J., Musa, A.I., Agbemuko, D.I.	Development and Evaluation of a MQ-5 Sensor-Based Condition Monitoring System for In-Situ Pipeline Leak Detection	MQ-5 sensor, pipeline, leak detection, oil, condition monitoring, sustainable transportation, gas industry	23, 1, 1-11	https://doi.org/10.18280/i2m.230101	Okokpujie, I.P., Avwunu, O., Akande, S., Dada, O.J., Musa, A.I., Agbemuko, D.I. (2024). Development and evaluation of a MQ-5 sensor-based condition monitoring system for in-situ pipeline leak detection. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 1-11. https://doi.org/10.18280/i2m.230101
26	Das, K., Das, S., Pattnaik, M.	Enhancing Energy Efficiency in Sensor Cloud Through Time Series Forecasting of Sensor Data	prediction, ARIMA, ARIMA-WBF, sensor cloud, WBF, WSN	23, 1, 13-29	https://doi.org/10.18280/i2m.230102	Das, K., Das, S., Pattnaik, M. (2024). Enhancing energy efficiency in sensor cloud through time series forecasting of sensor data. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 13-29. https://doi.org/10.18280/i2m.230102
27	Alomari, Z.M., Alfatlawi, T.J.	Comparative Assessment of Water Distribution in Constant Versus Variable Rate Irrigation Systems	sprinkler irrigation, constant-rate irrigation, variable-rate irrigation, pulse on/off, performance criteria, water application uniformity, irrigation accuracy, water productivity	23, 1, 31-41	https://doi.org/10.18280/i2m.230103	Alomari, Z.M., Alfatlawi, T.J. (2024). Comparative assessment of water distribution in constant versus variable rate irrigation systems. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 31-41. https://doi.org/10.18280/i2m.230103
28	Sumasto, F., Nugroho, Y.A., Solih, E.S., Arohman, A.W., Agustin, D., Permana, A.K.	Enhancing Quality Control in the Indonesian Automotive Parts Industry: A Defect Reduction Approach Through the Integration of FMEA and MSA	automotive part, calibration, Failure Mode and Effect Analysis (FMEA), measurement, Measurement System Analysis (MSA), quality control	23, 1, 43-53	https://doi.org/10.18280/i2m.230104	Sumasto, F., Nugroho, Y.A., Solih, E.S., Arohman, A.W., Agustin, D., Permana, A.K. (2024). Enhancing quality control in the Indonesian automotive parts industry: A defect reduction approach through the integration of FMEA and MSA. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 43-53. https://doi.org/10.18280/i2m.230104
29	Abdulrasul, W.A., Mohammed-Ali, W.S.	Experimental Study of Energy Dissipation in Sudden Contraction of Open Channels	dissipated energy, sudden contraction, non-linear model, open channel, statistical analysis, dimensional analysis, hydraulic structures	23, 1, 55-61	https://doi.org/10.18280/i2m.230105	Abdulrasul, W.A., Mohammed-Ali, W.S. (2024). Experimental study of energy dissipation in sudden contraction of open channels. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 55-61. https://doi.org/10.18280/i2m.230105
30	Larbi, A.A., Mediani, A., Serik, H.R., Loumani, A., Abdeledjalil, B., Ikrame, F.H.W., Meriama, F., Cherif, T.	Precision Measurement and Sustainable Preservation: Advancements in Solar Drying and Mathematical Modeling of Carrots	solar drying, carrots, measurement, physicochemical, kinetic drying curves, mathematical modeling	23, 1, 63-69	https://doi.org/10.18280/i2m.230106	Larbi, A.A., Mediani, A., Serik, H.R., Loumani, A., Abdeledjalil, B., Ikrame, F.H.W., Meriama, F., Cherif, T. (2024). Precision measurement and sustainable preservation: Advancements in solar drying and mathematical modeling of carrots. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 63-69. https://doi.org/10.18280/i2m.230106
31	Fadhil, A.A., Abdullah, F.Y., Yaseen, M.T.	Design and Implementation of Air Pollution Monitoring System in Mosul City	Air Quality Index, air pollution level, environmental protection, LoRa technology, OMNET++program	23, 1, 71-77	https://doi.org/10.18280/i2m.230107	Fadhil, A.A., Abdullah, F.Y., Yaseen, M.T. (2024). Design and implementation of air pollution monitoring system in Mosul city. <i>Instrumentation Mesure Métrologie</i> , Vol. 23, No. 1, pp. 71-77. https://doi.org/10.18280/i2m.230107
32	Premkumar, M., Prasanna, R., Sachan, V.	Assessing Wireless Communication Systems Performance Metrics Using Artificial Neural Networks: A Modelling and Simulation Approach	modelling, simulation, wireless systems, mean square error, capacity, back propagation, artificial neural networks, matrix laboratory (MATLAB)	22, 6, 223-229	https://doi.org/10.18280/i2m.220601	Premkumar, M., Prasanna, R., Sachan, V. (2023). Assessing wireless communication systems performance metrics using artificial neural networks: A modelling and simulation approach. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 6, pp. 223-229. https://doi.org/10.18280/i2m.220601

33	Hassan, A.A., Tutuncu, K., Abdullahi, H.O., Ali, A.F.	IoT-Based Smart Health Monitoring System: Investigating the Role of Temperature, Blood Pressure and Sleep Data in Chronic Disease Management	Internet of Things, healthcare, IoT sensors, smart health	22, 6, 231-240	https://doi.org/10.18280/i2m.220602	Hassan, A.A., Tutuncu, K., Abdullahi, H.O., Ali, A.F. (2023). IoT-based smart health monitoring system: Investigating the role of temperature, blood pressure and sleep data in chronic disease management. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 6, pp. 231-240. https://doi.org/10.18280/i2m.220602
34	Senouci, A., Maouedj, R., Benatiallah, A., Benatiallah, D., Bouchouicha, K.	Enhanced Daily Global Solar Radiation Prediction Through Hybrid Artificial Neural Network and Adaptive Neuro-Fuzzy Inference System with Meta-Heuristic Algorithm Integration	ANFIS-PSO, ANFIS-GA, ANN-PSO, ANN-GA, solar radiation prediction	22, 6, 241-251	https://doi.org/10.18280/i2m.220603	Senouci, A., Maouedj, R., Benatiallah, A., Benatiallah, D., Bouchouicha, K. (2023). Enhanced daily global solar radiation prediction through hybrid artificial neural network and adaptive neuro-fuzzy inference system with meta-heuristic algorithm integration. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 6, pp. 241-251. https://doi.org/10.18280/i2m.220603
35	Qasim, R.M., Dawood, A.S.	Hydraulic Behavior of Weir-Gate Structure with Rectangular Side Obstacle under Free and Submerged Flow Conditions	open channel, side, obstacle, weir-gate, hydraulic structure	22, 6, 253-264	https://doi.org/10.18280/i2m.220604	Qasim, R.M., Dawood, A.S. (2023). Hydraulic behavior of weir-gate structure with rectangular side obstacle under free and submerged flow conditions. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 6, pp. 253-264. https://doi.org/10.18280/i2m.220604
36	Lingamaiah, D., Reddy, D.K., Kumar, P.N.	Improved Reinforcement Learning for Reliable Routing in Medical Wireless Sensor Networks	cluster formation, cluster head selection, low-risk reliable routing, medical application, patient monitoring, reinforcement learning, residual energy, wireless sensor network	22, 6, 265-275	https://doi.org/10.18280/i2m.220605	Lingamaiah, D., Reddy, D.K., Kumar, P.N. (2023). Improved reinforcement learning for reliable routing in medical wireless sensor networks. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 6, pp. 265-275. https://doi.org/10.18280/i2m.220605
37	Kerai, S., Hamoudi, Y.	A Device for Measuring the Electrical Conductivity of Liquids Using Phase Sensitive Detection Technique	electrical conductivity, probe cell, capacitive influence, phase sensitive detection, conductance, lock-in amplifier, calibration, standard solution, precision resistor	22, 5, 185-192	https://doi.org/10.18280/i2m.220501	Kerai, S., Hamoudi, Y. (2023). A device for measuring the electrical conductivity of liquids using phase sensitive detection technique. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 5, pp. 185-192. https://doi.org/10.18280/i2m.220501
38	Shukur, E.A., Al-Neami, A.Q., Mohsin, F.Y.	Advanced Sensor-Based Cap Cooling System for Mitigating Chemotherapy-Induced Hair Loss	breast tumor, Peltier cooling, scalp cooling device, chemotherapy-induced alopecia, cap-based approach, hair loss prevention	22, 5, 193-200	https://doi.org/10.18280/i2m.220502	Shukur, E.A., Al-Neami, A.Q., Mohsin, F.Y. (2023). Advanced sensor-based cap cooling system for mitigating chemotherapy-induced hair loss. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 5, pp. 193-200. https://doi.org/10.18280/i2m.220502
39	Adaramola, B.A., Kayode, J.F., Afolalu, S.A., Rominiyi, O.L., Okokpujie, I.P., Ikumapayi, O.M.	Investigating Fluid Flow Regimes: A Novel Design and Implementation of Bernoulli's Apparatus	flow velocity, discharge, laminar flow, transitional flow, turbulent flow, Reynolds number, Venturimeter	22, 5, 201-207	https://doi.org/10.18280/i2m.220503	Adaramola, B.A., Kayode, J.F., Afolalu, S.A., Rominiyi, O.L., Okokpujie, I.P., Ikumapayi, O.M. (2023). Investigating fluid flow regimes: A novel design and implementation of Bernoulli's apparatus. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 5, pp. 201-207. https://doi.org/10.18280/i2m.220503
40	Al-Mumen, H.	Design and Evaluation of a Spider Web-Like Single-Axis Micro-Electro-Mechanical Systems Accelerometer with High Sensitivity and Fast Response	Micro-Electro-Mechanical Systems (MEMS), sensor, accelerometer, spider web-like, simulation, signal conditioning	22, 5, 209-214	https://doi.org/10.18280/i2m.220504	Al-Mumen, H. (2023). Design and evaluation of a spider web-like single-axis Micro-Electro-Mechanical Systems accelerometer with high sensitivity and fast response. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 5, pp. 209-214. https://doi.org/10.18280/i2m.220504
41	Khaled, K.M., Hegazy, R.S.	Metrological Characterization of Spring Impact Hammer Calibration	impact force, spring hammer, calibration, uncertainty, dynamic force	22, 5, 215-221	https://doi.org/10.18280/i2m.220505	Khaled, K.M., Hegazy, R.S. (2023). Metrological characterization of spring impact hammer calibration. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 5, pp. 215-221. https://doi.org/10.18280/i2m.220505
42	Selvanarayanan, R., Rajandran, S., Alotaibi, Y.	Using Hierarchical Agglomerative Clustering in E-Nose for Coffee Aroma Profiling: Identification, Quantification, and Disease Detection	electronic-nose, coffee quality, hierarchical agglomerative clustering, coffee disease detection, volatile compounds, gas-chromatography, mass spectrometry, machine learning techniques	22, 4, 127-140	https://doi.org/10.18280/i2m.220401	Selvanarayanan, R., Rajandran, S., Alotaibi, Y. (2023). Using hierarchical agglomerative clustering in e-nose for coffee aroma profiling: Identification, quantification, and disease detection. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 4, pp. 127-140. https://doi.org/10.18280/i2m.220401
43	Zhang, L.G., Wang, B., Zhu, L., Zhu, Q.W.	Soft Sensor Modelling Method Using Improved LWPLS for Fermentation Monitoring of Pichia Pastoris	Pichia pastoris, soft sensor, ensemble learning, moving window, multi-similarity measurement	22, 4, 141-152	https://doi.org/10.18280/i2m.220402	Zhang, L.G., Wang, B., Zhu, L., Zhu, Q.W. (2023). Soft sensor modelling method using improved LWPLS for fermentation monitoring of Pichia pastoris. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 4, pp. 141-152. https://doi.org/10.18280/i2m.220402
44	Thang, N.T.	Measurement of Bubbly Two-Phase Flow in a Vertical Pipe Using Ultrasonic Velocity Profiler and Digital Optical Imaging	liquid velocity, bubble velocity, void fraction, bubble size, bubbly flow measurement, ultrasonic velocity profiling, ultrasonic doppler velocimetry, image processing	22, 4, 153-160	https://doi.org/10.18280/i2m.220403	Thang, N.T. (2023). Measurement of bubbly two-phase flow in a vertical pipe using ultrasonic velocity profiler and digital optical imaging. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 4, pp. 153-160. https://doi.org/10.18280/i2m.220403
45	Arumugam, V., Natarajan, V.	Time Series Modeling and Forecasting Using Autoregressive Integrated Moving Average and Seasonal Autoregressive Integrated Moving Average Models	time series, pattern mining, Autoregressive Integrated Moving Average (ARIMA), Seasonal Autoregressive Integrated Moving Average (SARIMA), forecasting, model selection, performance evaluation	22, 4, 161-168	https://doi.org/10.18280/i2m.220404	Arumugam, V., Natarajan, V. (2023). Time series modeling and forecasting using Autoregressive Integrated Moving Average and Seasonal Autoregressive Integrated Moving Average models. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 4, pp. 161-168. https://doi.org/10.18280/i2m.220404
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50	Mohsen, M.H., Al-Mohammed, F.M.	Assessment of Irrigation Water Quality Using the Canadian Water Quality Index (CWQI) in the Hilla Main Canal, Iraq	water quality index, irrigation water, Hilla Main Canal, water hardness, Iraq	22, 3, 105-111	https://doi.org/10.18280/i2m.220303	Mohsen, M.H., Al-Mohammed, F.M. (2023). Assessment of irrigation water quality using the Canadian Water Quality Index (CWQI) in the Hilla Main Canal, Iraq. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 3, pp. 105-111. https://doi.org/10.18280/i2m.220303
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54	Sithole, S.E., Thakur, P., Singh, G.	Congestion Control Mechanism on Transport Layer Protocol: The Application of Terahertz Frequency	terahertz communication, transport layer protocol, nonotechnology, wireless communication, transmission layer protocol, sensor, sensor node	22, 2, 53-64	https://doi.org/10.18280/i2m.220202	Sithole, S.E., Thakur, P., Singh, G. (2023). Congestion control mechanism on transport layer protocol: The application of terahertz frequency. <i>Instrumentation Mesure Métrologie</i> , Vol. 22, No. 2, pp. 53-64. https://doi.org/10.18280/i2m.220202
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62	Benamira, N., Dekhane, A., Kerfali, S., Bouras, A., Refas, O.	Experimental Investigation of the Combined Fault: Mechanical and Electrical Unbalances in Induction Motors Based on Stator Currents Monitoring	induction motors, mass unbalance, voltage unbalance, combined faults detection, MCSA, park currents analysis	21, 6, 207-215	https://doi.org/10.18280/i2m.210601	Benamira, N., Dekhane, A., Kerfali, S., Bouras, A., Refas, O. (2022). Experimental investigation of the combined fault: Mechanical and electrical unbalances in induction motors based on stator currents monitoring. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 6, pp. 207-215. https://doi.org/10.18280/i2m.210601
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68	Al-Fatwe, F.M.K., Jabbar, B.A., Hamza, N.A.A., Ramadhan, A.T.	Experimental Analysis for the Performance of a Geothermal Heat Exchanger Made of Environmentally Friendly Materials	ground heat exchanger, coefficient of performance, environmentally friendly materials, cross – linked polyethylene	21, 5, 171-178	https://doi.org/10.18280/i2m.210502	Al-Fatwe, F.M.K., Jabbar, B.A., Hamza, N.A.A., Ramadhan, A.T. (2022). Experimental analysis for the performance of a geothermal heat exchanger made of environmentally friendly materials. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 5, pp. 171-178. https://doi.org/10.18280/i2m.210502
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70	Yudhana, A., Akbar, S.A., Mufandi, I., Larombia, B.	Monitoring and Automation of Temperature Control Based on Mobile Application Technology (MAT) for Precision Oyster Mushroom Cultivation	ESP8266-01, mobile application technology (MAT), Oyster mushroom, SHT31, Peltier TEC-1 12706, temperature control	21, 5, 189-197	https://doi.org/10.18280/i2m.210504	Yudhana, A., Akbar, S.A., Mufandi, I., Larombia, B. (2022). Monitoring and automation of temperature control based on mobile application technology (MAT) for precision oyster mushroom cultivation. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 5, pp. 189-197. https://doi.org/10.18280/i2m.210504
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75	Govindaraj, M., Kaliappan, S., Swaminathan, G.	Outlier Detection of Functional Data Using Reproducing Kernel Hilbert Space	Hilbert space, data depth function, multivariate outlier, functional data and Euclidean distance	21, 4, 145-150	https://doi.org/10.18280/i2m.210404	Govindaraj, M., Kaliappan, S., Swaminathan, G. (2022). Outlier detection of functional data using reproducing kernel Hilbert space. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 4, pp. 145-150. https://doi.org/10.18280/i2m.210404
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80	Olewi, J.K., Hadi, R.S.	Study of Polymeric Composite Reinforced with Natural Particles: Measurement and Evaluation	epoxy, unsaturated polyester, walnut shell particle, flexural, tensile	21, 3, 113-117	https://doi.org/10.18280/i2m.210304	Olewi, J.K., Hadi, R.S. (2022). Study of polymeric composite reinforced with natural particles: Measurement and evaluation. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 3, pp. 113-117. https://doi.org/10.18280/i2m.210304

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82	Abdi, G., Amraoui, M.A., Medjadji, N., Lorenzini, G., Menni, Y.	3D Evaluation of a Thermal and Hydraulic Winged Solar Collector	online mixing system, mixer, numerical simulation, spectrophotometry, variation coefficient	21, 2, 35-41	https://doi.org/10.18280/i2m.210201	Abdi, G., Amraoui, M.A., Medjadji, N., Lorenzini, G., Menni, Y. (2022). 3D evaluation of a thermal and hydraulic winged solar collector. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 2, pp. 35-41. https://doi.org/10.18280/i2m.210201
83	Ahmida, M.A., Elmaryami, A.S.A., Boukhrias, F.G.A., El Menshaz, A.M.A.	Investigation of Using Physical Optical Reflectivity Probes in Evaluating and Monitoring Powder Mixtures of Sugar and Slag	sugar and slag powders, powder mixtures, optical probes, hemispherical tip probe, side viewing wedge tip probe, reflectivity, light intensity	21, 2, 43-48	https://doi.org/10.18280/i2m.210202	Ahmida, M.A., Elmaryami, A.S.A., Boukhrias, F.G.A., El Menshaz, A.M.A. (2022). Investigation of using physical optical reflectivity probes in evaluating and monitoring powder mixtures of sugar and slag. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 2, pp. 43-48. https://doi.org/10.18280/i2m.210202
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85	Janteliyev, D., Julamanov, T., Rsymbetov, B., Kaldybekov, A., Allaberganova, Y.	Increasing the Level of Management Efficiency: Using Unmanned Aerial Vehicles for Monitoring Pasture Lands	aerial photography, agriculture, monitoring, pasture lands, SWOT analysis, unmanned aerial vehicle (UAV)	21, 2, 59-65	https://doi.org/10.18280/i2m.210204	Janteliyev, D., Julamanov, T., Rsymbetov, B., Kaldybekov, A., Allaberganova, Y. (2022). Increasing the level of management efficiency: Using unmanned aerial vehicles for monitoring pasture lands. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 2, pp. 59-65. https://doi.org/10.18280/i2m.210204
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87	Hakaew, P., Panmuang, P., Prabpal, P., Photong, C.	An Application of Multi-Frequency Alternating Current Source for VES on Soil Resistivity Measurement and Investigation	soil resistivity, sample soil, vertical electrical sounding, four-point electrodes arrangement, multi-frequency alternating current source	21, 2, 79-85	https://doi.org/10.18280/i2m.210206	Hakaew, P., Panmuang, P., Prabpal, P., Photong, C. (2022). An application of multi-frequency alternating current source for VES on soil resistivity measurement and investigation. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 2, pp. 79-85. https://doi.org/10.18280/i2m.210206
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89	Priya, S.S., Premkumar, M., Arun, M., Sachan, V.	Artificial Neural Networks Oriented Testbed for Multiantenna Wireless Application	artificial neural networks, multiantenna, mean square error, capacity, probability of error	21, 1, 7-12	https://doi.org/10.18280/i2m.210102	Priya, S.S., Premkumar, M., Arun, M., Sachan, V. (2022). Artificial Neural Networks Oriented Testbed for multiantenna wireless application. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 1, pp. 7-12. https://doi.org/10.18280/i2m.210102
90	Abdulhussein, I.A., Qasim, R.M., Hameed, M.A.	Determination of the General Formula to Estimate the Discharge Quantity of Composite Structure for Free Flow	composite structure, discharge quantity, free flow, gate, weir	21, 1, 13-20	https://doi.org/10.18280/i2m.210103	Abdulhussein, I.A., Qasim, R.M., Hameed, M.A. (2022). Determination of the general formula to estimate the discharge quantity of composite structure for free flow. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 1, pp. 13-20. https://doi.org/10.18280/i2m.210103
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92	Saheb, A.M., Farhan, B.S.	Design and Measurement of a Modern Charging System Based on IoT	IoT, smart-charging system, cell phone, multi-source	21, 1, 27-34	https://doi.org/10.18280/i2m.210105	Saheb, A.M., Farhan, B.S. (2022). Design and measurement of a modern charging system based on IoT. <i>Instrumentation Mesure Métrologie</i> , Vol. 21, No. 1, pp. 27-34. https://doi.org/10.18280/i2m.210105
93	Laktionov, I.S., Vovna, O.V., Kabanets M.M., Sheina, H.O., Getman, I.A.	Information Model of the Computer-Integrated Technology for Wireless Monitoring of the State of Microclimate of Industrial Agricultural Greenhouses	uncertainty, transfer, aggregation, model, information, observation, measurement, greenhouse	20, 6, 289-300	https://doi.org/10.18280/i2m.200601	Laktionov, I.S., Vovna, O.V., Kabanets M.M., Sheina, H.O., Getman, I.A. (2021). Information model of the computer-integrated technology for wireless monitoring of the state of microclimate of industrial agricultural greenhouses. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 6, pp. 289-300. https://doi.org/10.18280/i2m.200601
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96	Selmoune, B., Hamimid, M.	Anhysteretic Magnetization Effect on the Centered and Non-Centered Minor Hysteresis Loops in Jiles-Atherton Model	anhysteretic magnetization, non-centered minor loops, centered minor loops, Jiles-Atherton hysteresis model, Identification	20, 6, 315-319	https://doi.org/10.18280/i2m.200604	Selmoune, B., Hamimid, M. (2021). Anhysteretic magnetization effect on the centered and non-centered minor hysteresis loops in Jiles-Atherton model. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 6, pp. 315-319. https://doi.org/10.18280/i2m.200604

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98	Jones, T.N., Christian, G.N.E.R., Felix, P.	Wireless Sensors Network for Monitoring Linear Infrastructures Using MQTT Protocol on Raspberry Pi With nRF2401 and Node-Red	MQTT, nRF2401, raspberry Pi, wireless sensors network, Twitter	20, 5, 247-254	https://doi.org/10.18280/i2m.200501	Jones, T.N., Christian, G.N.E.R., Felix, P. (2021). Wireless sensors network for monitoring linear infrastructures using MQTT protocol on raspberry Pi with nRF2401 and node-red. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 5, pp. 247-254. https://doi.org/10.18280/i2m.200501
99	Chaarmart, K., Narongwongwattana, S., Rittiron, R., Sa-Ngiamvibool, W.	Evaluation of Chemical Quality on Juices and Wine Produced from Mameo Fruit (Antidesma Puncticulatum Miq.) Within Near-Infrared Spectroscopy	chemical quality, Mao juices, Mao wine, near-infrared spectroscopy	20, 5, 255-260	https://doi.org/10.18280/i2m.200502	Chaarmart, K., Narongwongwattana, S., Rittiron, R., Sa-Ngiamvibool, W. (2021). Evaluation of chemical quality on juices and wine produced from Mameo fruit (Antidesma puncticulatum Miq.) within near-infrared spectroscopy. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 5, pp. 255-260. https://doi.org/10.18280/i2m.200502
100	Mahapatra, S., Mohanty, M.N.	An Optimized Feed Hexagonal Antenna with Defective Ground Plane for UWB Body Area Network Application	evolutionary algorithm, hexagonal microstrip antenna, inset-fed, low SAR, multi-band antenna, wearable antenna	20, 5, 261-267	https://doi.org/10.18280/i2m.200503	Mahapatra, S., Mohanty, M.N. (2021). An optimized feed hexagonal antenna with defective ground plane for UWB body area network application. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 5, pp. 261-267. https://doi.org/10.18280/i2m.200503
101	Meriama, F., Said, B., Akil, L., Ahmed, M., Houcine, M., Abdelkrim, D., Cherif, T., Amine, L.A., Belkacem, D.	Experimental Determination and Modeling of the Moisture-Sorption Isotherms and Isotheric Heat of Tobacco Leaves	sorption isotherm, solar drying, gravimetric method, isotheric heats, nicotiana tabacum L., GAB and PELEG models	20, 5, 269-277	https://doi.org/10.18280/i2m.200504	Meriama, F., Said, B., Akil, L., Ahmed, M., Houcine, M., Abdelkrim, D., Cherif, T., Amine, L.A., Belkacem, D. (2021). Experimental determination and modeling of the moisture-sorption isotherms and isotheric heat of tobacco leaves. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 5, pp. 269-277. https://doi.org/10.18280/i2m.200504
102	Pallavi, C.H., Sreenivasulu, G.	A High Speed Underwater Wireless Communication Through a Novel Hybrid Opto-Acoustic Modem Using MIMO-OFDM	bit-error rate (BER), inter symbol interference (ISI), multiple-input multiple-output (MIMO), orthogonal frequency-division multiplexing (OFDM), and opto-acoustic modem	20, 5, 279-287	https://doi.org/10.18280/i2m.200505	Pallavi, C.H., Sreenivasulu, G. (2021). A high speed underwater wireless communication through a novel hybrid opto-acoustic modem using MIMO-OFDM. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 5, pp. 279-287. https://doi.org/10.18280/i2m.200505
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106	Manjunath, A.G., Vrtagić, S., Dogan, F., Dordevic, M., Zarkovic, M., Kevric, J., Dobric, G.	Machine Learning MOSA Monitoring System	metal-oxide surge arrester (MOSA), Fourier transform, machine learning, regression, simulated system	20, 4, 203-208	https://doi.org/10.18280/i2m.200404	Manjunath, A.G., Vrtagić, S., Dogan, F., Dordevic, M., Zarkovic, M., Kevric, J., Dobric, G. (2021). Machine learning MOSA monitoring system. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 4, pp. 203-208. https://doi.org/10.18280/i2m.200404
107	Bojja, P., Prasanna, N.M., Kumari, P.R., Bhuvanendhiran, T., Kumar, P.J.	Development of Conventional Controller Based on Image Processing for Monitoring and Controlling Burning Zone Temperature in a Cement Plant in Rotary Kiln Process Through IOT	burning zone, flame image, temperature, PID controller, pixel or shading	20, 4, 209-214	https://doi.org/10.18280/i2m.200405	Bojja, P., Prasanna, N.M., Kumari, P.R., Bhuvanendhiran, T., Kumar, P.J. (2021). Development of conventional controller based on image processing for monitoring and controlling burning zone temperature in a cement plant in rotary kiln process through IOT. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 4, pp. 209-214. https://doi.org/10.18280/i2m.200405
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109	Gervais, J., Breil, P., Poly, F., Namour, P.	Sniffer: A Device for Sampling Gases from River Sediments SNIFFER : Un Dispositif de Prélèvement des Gaz Emis par les Sédiments Fluviaux	sediment, river, gas, greenhouse effect, measurement	20, 4, 223-233	https://doi.org/10.18280/i2m.200407	Gervais, J., Breil, P., Poly, F., Namour, P. (2021). Sniffer: A device for sampling gases from river sediments. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 4, pp. 223-233. https://doi.org/10.18280/i2m.200407
110	Roveretto, M., Namour, P., Raffin, G.	Development of Sampling and Analysis Methods to Identify and Quantify Gas Emissions in the Sewerage Network Développement de Méthodes d'Echantillonnage et d'Analyse Pour Identifier et Quantifier les Emissions de Gaz en Réseau d'Assainissement	gas emissions, volatile organic compounds (VOC), sewerage network, sampling, canister, Tedlar® air bag, thermal desorption-Gas chromatography -Mass spectrometry (TD-GC-MS)	20, 4, 235-246	https://doi.org/10.18280/i2m.200408	Roveretto, M., Namour, P., Raffin, G. (2021). Development of sampling and analysis methods to identify and quantify gas emissions in the sewerage network. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 4, pp. 235-246. https://doi.org/10.18280/i2m.200408
111	Majid, A.	The Evaluation of Wind Energy Based on the Inherent Nature of Wind Speed Assessment at Fujairah (UAE)	energy probability, Fourier decomposition, power spectrum, wavelet coefficients, Weibull distribution constants	20, 3, 121-130	https://doi.org/10.18280/i2m.200301	Majid, A. (2021). The evaluation of wind energy based on the inherent nature of wind speed assessment at Fujairah (UAE). <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 3, pp. 121-130. https://doi.org/10.18280/i2m.200301
112	Sayad, B., Alkama, D., Rebhi, R., Kidar, A., Lorenzini, G., Ahmad, H., Menni, Y.	Enhanced Outdoor Thermal Comfort Through Natural Design Technique: In-Situ Measurement and Microclimate Simulation	thermal outdoor comfort, Vegetation, water bodies, natural design strategy, hot summer, numerical simulation, in-situ measurement	20, 3, 131-136	https://doi.org/10.18280/i2m.200302	Sayad, B., Alkama, D., Rebhi, R., Kidar, A., Lorenzini, G., Ahmad, H., Menni, Y. (2021). Enhanced outdoor thermal comfort through natural design technique: In-situ measurement and microclimate simulation. <i>Instrumentation Measure Métrologie</i> , Vol. 20, No. 3, pp. 131-136. https://doi.org/10.18280/i2m.200302

113	Kabache, M., Guerti, M.	Multi Parametric Method for the Objective Acoustic Evaluation of the Voice Produced by Laryngectomy Patients	pathological voice, objective instrumental approaches, Algerian clinical environment, acoustic characteristics of the voice, total laryngectomy	20, 3, 137-142	https://doi.org/10.18280/i2m.200303	Kabache, M., Guerti, M. (2021). Multi parametric method for the objective acoustic evaluation of the voice produced by laryngectomy patients. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 3, pp. 137-142. https://doi.org/10.18280/i2m.200303
114	Mandal, H., Mondal, U., Bera, S.C.	Study of a Modified Obstruction Free Pressure Sensor Based Flow Transducer Using Hall Sensors	noncontact flow transducer, Bernoulli's equation, static pressure, hall sensor, bourdon tube, disk type permanent magnet	20, 3, 143-151	https://doi.org/10.18280/i2m.200304	Mandal, H., Mondal, U., Bera, S.C. (2021). Study of a modified obstruction free pressure sensor based flow transducer using hall sensors. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 3, pp. 143-151. https://doi.org/10.18280/i2m.200304
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116	Mesmoudi, A., Mesmoudi, S., Houari Z., Mostefa, K.	A Novel Static Cluster-Based Hierarchical Protocol for Wireless Sensor Networks	cluster head node, energy-efficient, hierarchical clustering, LEACH, SCHP wireless sensor network	20, 3, 161-166	https://doi.org/10.18280/i2m.200306	Mesmoudi, A., Mesmoudi, S., Houari Z., Mostefa, K. (2021). A novel static cluster-based hierarchical protocol for wireless sensor networks. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 3, pp. 161-166. https://doi.org/10.18280/i2m.200306
117	Gunawan, A.A.N., Sulaiman, A., Kusumanegara, A.A.N.F., Ramadan, M., Ramadan, M.	FTIR Measurement of Human Energy Fields (Evidence of the Existence of Human Inner Power)	FTIR, human energy fields, human inner power	20, 3, 167-171	https://doi.org/10.18280/i2m.200307	Gunawan, A.A.N., Sulaiman, A., Kusumanegara, A.A.N.F., Ramadan, M., Ramadan, M. (2021). FTIR measurement of human energy fields (evidence of the existence of human inner power). <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 3, pp. 167-171. https://doi.org/10.18280/i2m.200307
118	Mohammed, O., Mathloom, A.R., Shanef, A.A.	Experimental Investigation to Determine the Concentration of Radon in Cosmetics Using a Nuclear Track Detector (CR-39)	radon concentration, cosmetic, radiation, exposure, annual equivalent dose	20, 3, 173-177	https://doi.org/10.18280/i2m.200308	Mohammed, O., Mathloom, A.R., Shanef, A.A. (2021). Experimental investigation to determine the concentration of radon in cosmetics using a nuclear track detector (CR-39). <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 3, pp. 173-177. https://doi.org/10.18280/i2m.200308
119	Aouf, A., Bouchala, T., Abdou, A., Abdelhadi, B.	Eddy Current Probe Configuration for Full Rail Top Surface Inspection	eddy current, nondestructive testing, rail, multidifferential probes	20, 2, 65-72	https://doi.org/10.18280/i2m.200201	Aouf, A., Bouchala, T., Abdou, A., Abdelhadi, B. (2021). Eddy current probe configuration for full rail top surface inspection. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 65-72. https://doi.org/10.18280/i2m.200201
120	Kim, S.	Generation of Stereo Images from the Heterogeneous Cameras	heterogeneous camera, stereo images, mobile devices, calibration	20, 2, 73-78	https://doi.org/10.18280/i2m.200202	Kim, S. (2021). Generation of stereo images from the heterogeneous cameras. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 73-78. https://doi.org/10.18280/i2m.200202
121	Thippeswamy, V.S., Shivakumaraswamy, P.M., Chickaramanna, S.G., Iyengar, V.M., Das, A.P., Sharma, A.	Prototype Development of Continuous Remote Monitoring of ICU Patients at Home	vital signs, ICU, internet of things, real-time monitoring, SpO2, heart rate, ECG	20, 2, 79-84	https://doi.org/10.18280/i2m.200203	Thippeswamy, V.S., Shivakumaraswamy, P.M., Chickaramanna, S.G., Iyengar, V.M., Das, A.P., Sharma, A. (2021). Prototype development of continuous remote monitoring of ICU patients at home. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 79-84. https://doi.org/10.18280/i2m.200203
122	Sutisna, S.P., Setiawan, R.P.A., Subrata, I.D.M., Mandang, T.	Tracking Control of an Autonomous Head Feeding Combine	autonomous guidance system, combine harvester, navigation sensors	20, 2, 85-90	https://doi.org/10.18280/i2m.200204	Sutisna, S.P., Setiawan, R.P.A., Subrata, I.D.M., Mandang, T. (2021). Tracking control of an autonomous head feeding combine. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 85-90. https://doi.org/10.18280/i2m.200204
123	Wen, D.P., Liang, X.Y., Su, M.G., Wu, M., Chen, R.L., Zhang, T.C.	Error Correction of Weak Current Measurement System Based on Wavelet Denoising and Generalized Regression Neural Network	BPNN, GRNN, measurement error, weak current, wavelet denoising	20, 2, 91-99	https://doi.org/10.18280/i2m.200205	Wen, D.P., Liang, X.Y., Su, M.G., Wu, M., Chen, R.L., Zhang, T.C. (2021). Error correction of weak current measurement system based on wavelet denoising and generalized regression neural network. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 91-99. https://doi.org/10.18280/i2m.200205
124	Benali, A., Abderrahmane, B., Djemoui, L., Redjem, H.	CFD Analysis and NOx Prediction in H2 and CH4 Turbulent Non-premixed Flame Compared with Swirling Flame	combustion, flame, hydrogen, NOx, turbulence, simulation and swirl	20, 2, 101-106	https://doi.org/10.18280/i2m.200206	Benali, A., Abderrahmane, B., Djemoui, L., Redjem, H. (2021). CFD analysis and NOx prediction in H2 and CH4 turbulent non-premixed flame compared with swirling flame. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 101-106. https://doi.org/10.18280/i2m.200206
125	Satrusallya, S., Mohanty, M.N.	Design of Antenna Array for Ku-Band Wireless Application	array antenna, patch, Ku band, bandwidth, parasitic patch	20, 2, 107-112	https://doi.org/10.18280/i2m.200207	Satrusallya, S., Mohanty, M.N. (2021). Design of antenna array for Ku-band wireless application. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 107-112. https://doi.org/10.18280/i2m.200207
126	Ferkous, K., Chellali, F., Kouzou, A., Bekkar, B.	Wavelet-Gaussian Process Regression Model for Regression Daily Solar Radiation in Ghardaia, Algeria	wavelet, Gaussian process, regression, daily solar radiation, Ghardaia site	20, 2, 113-119	https://doi.org/10.18280/i2m.200208	Ferkous, K., Chellali, F., Kouzou, A., Bekkar, B. (2021). Wavelet-Gaussian process regression model for regression daily solar radiation in Ghardaia, Algeria. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 2, pp. 113-119. https://doi.org/10.18280/i2m.200208
127	Khezzar, D., Khedrouche, D., Denidni, T.A.	60 GHz Broadband LTCC Antenna for 5G Mobile Communication Systems	LTCC, millimeter waves, microstrip antenna, 5G	20, 1, 1-5	https://doi.org/10.18280/i2m.200101	Khezzar, D., Khedrouche, D., Denidni, T.A. (2021). 60 GHz broadband LTCC antenna for 5G mobile communication systems. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 1-5. https://doi.org/10.18280/i2m.200101
128	Thilakarathna, T.S., Edirisinghe, M.	Novel Handheld Device to Measure the Nasal Expiratory Flow Rate of the Two Nasal Cavities Individually and Simultaneously	medical device, nasal airflow detection, exhaled airflow rate, breathing style, embedded system	20, 1, 7-14	https://doi.org/10.18280/i2m.200102	Thilakarathna, T.S., Edirisinghe, M. (2021). Novel handheld device to measure the nasal expiratory flow rate of the two nasal cavities individually and simultaneously. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 7-14. https://doi.org/10.18280/i2m.200102

129	Alqudah, A.M., Alqudah, A.	Morphological Based Method for Automated Extraction and Classification of ECG ST-T Wave	ECG, automated detection, ST-T wave, SVM, K-mean, classification	20, 1, 15-22	https://doi.org/10.18280/i2m.200103	Alqudah, A.M., Alqudah, A. (2021). Morphological based method for automated extraction and classification of ECG ST-T wave. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 15-22. https://doi.org/10.18280/i2m.200103
130	Hammouche, A., Hamimid, M., Kansab, A., Belmadani, B.	Integration of Energetic Model for Ferromagnetic Hysteresis in Finite Volume Method for Electromagnetic Field Calculation	eddy current, energetic model, excess losses, ferromagnetic materials, hysteresis magnetic, magnetization, numerical electromagnetic computation	20, 1, 23-27	https://doi.org/10.18280/i2m.200104	Hammouche, A., Hamimid, M., Kansab, A., Belmadani, B. (2021). Integration of energetic model for ferromagnetic hysteresis in finite volume method for electromagnetic field calculation. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 23-27. https://doi.org/10.18280/i2m.200104
131	Sahour, A., Boumehrez, F., Benouaret, M., Mokhneche, A.	Greenhouse Climate Controller by Using of Internet of Things Technology and Fuzzy Logic	ARDUINO uno, fuzzy logic, internet of things, WIFI, wireless sensor network, Zigbee	20, 1, 29-38	https://doi.org/10.18280/i2m.200105	Sahour, A., Boumehrez, F., Benouaret, M., Mokhneche, A. (2021). Greenhouse climate controller by using of internet of things technology and fuzzy logic. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 29-38. https://doi.org/10.18280/i2m.200105
132	Kanupuru, P., Nadig Vijayendra Reddy, U.R.	Multi Node Based Smart Monitoring System with Motor Dry Run Avoidance for Sustainable Agriculture	agricultural internet of things, intelligent monitoring, wireless monitoring sensor nodes	20, 1, 39-47	https://doi.org/10.18280/i2m.200106	Kanupuru, P., Nadig Vijayendra Reddy, U.R. (2021). Multi node based smart monitoring system with motor dry run avoidance for sustainable agriculture. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 39-47. https://doi.org/10.18280/i2m.200106
133	Albouchi, F., Abdelmajid, J.	Photothermal Investigations of Conductive and Optical Properties of Liquids in the Near Infrared	liquids, optical parameters, parameter estimation, photothermal method	20, 1, 49-56	https://doi.org/10.18280/i2m.200107	Albouchi, F., Abdelmajid, J. (2021). Photothermal investigations of conductive and optical properties of liquids in the near infrared. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 49-56. https://doi.org/10.18280/i2m.200107
134	Bouakkaz, F., Ali, W., Derdour, M.	Forest Fire Detection Using Wireless Multimedia Sensor Networks and Image Compression	forest fire detection, images compression, wireless multimedia sensor network, Down-sampling, grid chain protocol	20, 1, 57-63	https://doi.org/10.18280/i2m.200108	Bouakkaz, F., Ali, W., Derdour, M. (2021). Forest fire detection using wireless multimedia sensor networks and image compression. <i>Instrumentation Mesure Métrologie</i> , Vol. 20, No. 1, pp. 57-63. https://doi.org/10.18280/i2m.200108
135	Shi, Y.X., Jiang, P., Wang, F.J., Zhou, S.X.	Optimization design of online mixing apparatus and mixing performance experiment for crop protection equipment	online mixing system, mixer, numerical simulation, spectrophotometry, variation coefficient	19, 6, 405-412	https://doi.org/10.18280/i2m.190601	Shi, Y.X., Jiang, P., Wang, F.J., Zhou, S.X. (2020). Optimization design of online mixing apparatus and mixing performance experiment for crop protection equipment. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 405-412. https://doi.org/10.18280/i2m.190601
136	Szymiczek, J.	Air density measuring device - innovative design, calibration and exemplary results	air density measurement, saturated salt solutions, humidity calibration, moist air density	19, 6, 413-419	https://doi.org/10.18280/i2m.190602	Szymiczek, J. (2020). Air density measuring device - innovative design, calibration and exemplary results. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 413-419. https://doi.org/10.18280/i2m.190602
137	Moganam, P.K., Seelan, D.A.S.	Perceptron neural network based machine learning approaches for leather defect detection and classification	machine vision, leather defects, gray level co-occurrence matrix, texture analysis, perceptron neural network	19, 6, 421-429	https://doi.org/10.18280/i2m.190603	Moganam, P.K., Seelan, D.A.S. (2020). Perceptron neural network based machine learning approaches for leather defect detection and classification. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 421-429. https://doi.org/10.18280/i2m.190603
138	Ni, N.	Safety monitoring and evaluation of construction projects based on multi-sensor fusion	multi-sensor fusion, construction projects, safety monitoring	19, 6, 431-441	https://doi.org/10.18280/i2m.190604	Ni, N. (2020). Safety monitoring and evaluation of construction projects based on multi-sensor fusion. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 431-441. https://doi.org/10.18280/i2m.190604
139	Goeritno, A., Nugraha, I., Rasiman, S., Johan, A.	Injection current into the power transformer as an internal fault phenomena for measuring the differential relay performance	differential relay performance, injection current into the power transformer, internal fault phenomena	19, 6, 443-451	https://doi.org/10.18280/i2m.190605	Goeritno, A., Nugraha, I., Rasiman, S., Johan, A. (2020). Injection current into the power transformer as an internal fault phenomena for measuring the differential relay performance. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 443-451. https://doi.org/10.18280/i2m.190605
140	Abid, M.A., Mousa, A.	Satellite differential code bias estimated using EGYNET: A local Egyptian permanent network	satellite differential code bias, globe positioning system, Global Navigation Satellite System	19, 6, 453-459	https://doi.org/10.18280/i2m.190606	Abid, M.A., Mousa, A. (2020). Satellite differential code bias estimated using EGYNET: A local Egyptian permanent network. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 453-459. https://doi.org/10.18280/i2m.190606
141	Bo, Q.Y., Cheng, W.Q., Sun, T.	Groundwater flow calculation model and neural network prediction based on groundwater modeling system	groundwater modeling system (GMS), groundwater flow prediction, BP neural network	19, 6, 461-470	https://doi.org/10.18280/i2m.190607	Bo, Q.Y., Cheng, W.Q., Sun, T. (2020). Groundwater flow calculation model and neural network prediction based on groundwater modeling system. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 461-470. https://doi.org/10.18280/i2m.190607
142	Bezari, S., Bekkouche, S.M.E.A., Benchatti, A., Adda, A., Boutelhig, A.	Effects of the rock-bed heat storage system on the solar greenhouse microclimate	greenhouse, measurement, microclimate, rock-bed, solar heating system	19, 6, 471-479	https://doi.org/10.18280/i2m.190608	Bezari, S., Bekkouche, S.M.E.A., Benchatti, A., Adda, A., Boutelhig, A. (2020). Effects of the rock-bed heat storage system on the solar greenhouse microclimate. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 6, pp. 471-479. https://doi.org/10.18280/i2m.190608
143	Eltuhamy, R.A., Rady, M., Ibrahim, K.H., Mahmoud, H.A.	Novel features extraction for fault detection using thermography characteristics and IV measurements of CIGS thin-film module	PV, CIGS, fault classification, thermography, IV, fault detection, features extraction, mathematical parameters	19, 5, 311-325	https://doi.org/10.18280/i2m.190501	Eltuhamy, R.A., Rady, M., Ibrahim, K.H., Mahmoud, H.A. (2020). Novel features extraction for fault detection using thermography characteristics and IV measurements of CIGS thin-film module. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 311-325. https://doi.org/10.18280/i2m.190501
144	Syed, M., Dubey, M.K.	Software-fault mitigation for derivation of quality of services (QoS) in wireless sensor networks (WSN)	wireless sensor networks, permanent fault, fault diagnosis, transient fault, quality of services (QoS)	19, 5, 327-336	https://doi.org/10.18280/i2m.190502	Syed, M., Dubey, M.K. (2020). Software-fault mitigation for derivation of quality of services (QoS) in wireless sensor networks (WSN). <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 327-336. https://doi.org/10.18280/i2m.190502

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146	Belkacemi, B., Saad, S., Ghemari, Z., Zaamouche, F., Khazzane, A.	Detection of induction motor improper bearing lubrication by discrete wavelet transforms (DWT) decomposition	induction motor, fault diagnosis, lubrication defects, discrete wavelet transforms (DWT), MATLAB wavelets toolbox	19, 5, 347-354	https://doi.org/10.18280/i2m.190504	Belkacemi, B., Saad, S., Ghemari, Z., Zaamouche, F., Khazzane, A. (2020). Detection of induction motor improper bearing lubrication by discrete wavelet transforms (DWT) decomposition. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 347-354. https://doi.org/10.18280/i2m.190504
147	Li, T.	Design of an automatic detector for gas desorption of coal samples	gas desorption, multi-sensor detection, ambient pressure, big data storage	19, 5, 355-361	https://doi.org/10.18280/i2m.190505	Li, T. (2020). Design of an automatic detector for gas desorption of coal samples. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 355-361. https://doi.org/10.18280/i2m.190505
148	Srivastava, A.K., Dubey, A., Kumar, M., Dwivedi, S.P., Singh, R.K., Kumar, S.	Measurement of form errors and comparative cost analysis for the component developed by metal printing (DMLS) and stir casting	3D metal printing, Direct Metal Laser Sintering (DMLS), stir casting, dimensional accuracy, surface roughness	19, 5, 363-369	https://doi.org/10.18280/i2m.190506	Srivastava, A.K., Dubey, A., Kumar, M., Dwivedi, S.P., Singh, R.K., Kumar, S. (2020). Measurement of form errors and comparative cost analysis for the component developed by metal printing (DMLS) and stir casting. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 363-369. https://doi.org/10.18280/i2m.190506
149	Ghodbane, M., Benmenine, D., Khechekhouche, A., Boumeddane, B.	Brief on solar concentrators: Differences and applications	renewable energy, solar energy, point solar concentrators, linear solar concentrators	19, 5, 371-378	https://doi.org/10.18280/i2m.190507	Ghodbane, M., Benmenine, D., Khechekhouche, A., Boumeddane, B. (2020). Brief on solar concentrators: Differences and applications. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 371-378. https://doi.org/10.18280/i2m.190507
150	Gao, Y.H., Lou, W.D., Lu, H.L.	A reconfigurable graphene nanoantenna on quartz substrate	terahertz (THz), graphene, nanoantenna, reconfigurable, miniaturized	19, 5, 379-383	https://doi.org/10.18280/i2m.190508	Gao, Y.H., Lou, W.D., Lu, H.L. (2020). A reconfigurable graphene nanoantenna on quartz substrate. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 379-383. https://doi.org/10.18280/i2m.190508
151	Kharb, S.S., Belokar, R.M., Kant, S., Sharma, M.	Measurement of handgrip strength of North Indian male farmers and its implications in design of farm equipment	isometric handgrip strength, musculoskeletal disorders, anthropometry, manual tools	19, 5, 385-389	https://doi.org/10.18280/i2m.190509	Kharb, S.S., Belokar, R.M., Kant, S., Sharma, M. (2020). Measurement of handgrip strength of North Indian male farmers and its implications in design of farm equipment. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 385-389. https://doi.org/10.18280/i2m.190509
152	Uppalapati, S.	Energy-efficient heterogeneous optimization routing protocol for wireless sensor network	wireless sensor networks, distance, scheduling, routing protocol, E-BEENISH, EE-TDMA-PSOUFC	19, 5, 391-397	https://doi.org/10.18280/i2m.190510	Uppalapati, S. (2020). Energy-efficient heterogeneous optimization routing protocol for wireless sensor network. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 391-397. https://doi.org/10.18280/i2m.190510
153	Yang, J.	Measurement and feature analysis of plantar pressure center in athletes under different exercise modes	plantar pressure center (PPC), gait analysis, trajectory, training, exercise mode	19, 5, 399-403	https://doi.org/10.18280/i2m.190511	Yang, J. (2020). Measurement and feature analysis of plantar pressure center in athletes under different exercise modes. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 5, pp. 399-403. https://doi.org/10.18280/i2m.190511
154	Laktionov, I.S., Vovna, O.V., Kabanets, M.M., Getman, I.A., Zolotarova, O.V.	Computer-integrated device for acidity measurement monitoring in greenhouse conditions with compensation of destabilizing factors	meter, uncertainty, Arduino, cloud computing, growing, median filtration	19, 4, 243-253	https://doi.org/10.18280/i2m.190401	Laktionov, I.S., Vovna, O.V., Kabanets, M.M., Getman, I.A., Zolotarova, O.V. (2020). Computer-integrated device for acidity measurement monitoring in greenhouse conditions with compensation of destabilizing factors. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 243-253. https://doi.org/10.18280/i2m.190401
155	Lakhlef, N., Oudira, O., Dumond, C.	Optimal pattern synthesis of linear antenna arrays using modified grey wolf optimization algorithm	array factor, MGWO, optimization, printed linear antenna array, synthesis	19, 4, 255-261	https://doi.org/10.18280/i2m.190402	Lakhlef, N., Oudira, O., Dumond, C. (2020). Optimal pattern synthesis of linear antenna arrays using modified grey wolf optimization algorithm. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 255-261. https://doi.org/10.18280/i2m.190402
156	Arunachalam, M., Mondal, C., Karmakar, S.	Field measurement of the motorcycle's key dimensions using simple method and in-house fabricated instrument	design, human factors, innovation, motorcycle simulator, measurement, dimensional database	19, 4, 263-272	https://doi.org/10.18280/i2m.190403	Arunachalam, M., Mondal, C., Karmakar, S. (2020). Field measurement of the motorcycle's key dimensions using simple method and in-house fabricated instrument. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 263-272. https://doi.org/10.18280/i2m.190403
157	Yuan, R.L.	Positioning of wireless sensor network under emergency communication environment	wireless sensor, emergency communication, multi-hop positioning, Kalman filter, distributed computing	19, 4, 273-279	https://doi.org/10.18280/i2m.190404	Yuan, R.L. (2020). Positioning of wireless sensor network under emergency communication environment. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 273-279. https://doi.org/10.18280/i2m.190404
158	Zahra, T., Mourad, L.M., Ahmed, A.H.	Robust fuzzy sliding mode observer for faults detection in solar power plant application	fault diagnosis, fuzzy sliding mode observer, LMI, solar power plant, Takagi-Sugeno	19, 4, 281-287	https://doi.org/10.18280/i2m.190405	Zahra, T., Mourad, L.M., Ahmed, A.H. (2020). Robust fuzzy sliding mode observer for faults detection in solar power plant application. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 281-287. https://doi.org/10.18280/i2m.190405
159	Alam, M.S., Muthiah, A., Salve, U.R.	Thermal comfort study in Indian railway pantry cars kitchen	thermal comfort, comfort temperature, comfort range, air temperature, clothing insulation, India, rail	19, 4, 289-295	https://doi.org/10.18280/i2m.190406	Alam, M.S., Muthiah, A., Salve, U.R. (2020). Thermal comfort study in Indian railway pantry cars kitchen. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 289-295. https://doi.org/10.18280/i2m.190406
160	Ghosh, P.K., Chatterjee, S., Tahabilder, A.	Graph-theory based optimal PMU allocation considering ZIB effects	Phasor Measurement Unit (PMU), Optimal PMU placement, Zero Injection Bus (ZIB), System observability	19, 4, 297-300	https://doi.org/10.18280/i2m.190407	Ghosh, P.K., Chatterjee, S., Tahabilder, A. (2020). Graph-theory based optimal PMU allocation considering ZIB effects. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 297-300. https://doi.org/10.18280/i2m.190407

161	Wang, J.C., Jiang, T., Shen, J.Q., Dai, J.H., Pan, Z.Q., Deng, X.L.	Thermal error compensation of spindle system of computer numerically controlled machine tools through experiments and modeling	computer numerically controlled (CNC) machine tool, spindle, thermal error compensation (TEC), particle swarm optimization (PSO), backpropagation neural network (BPNN), prediction accuracy	19, 4, 301-309	https://doi.org/10.18280/i2m.190408	Wang, J.C., Jiang, T., Shen, J.Q., Dai, J.H., Pan, Z.Q., Deng, X.L. (2020). Thermal error compensation of spindle system of computer numerically controlled machine tools through experiments and modeling. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 4, pp. 301-309. https://doi.org/10.18280/i2m.190408
162	Mariam, H., Poulighet, P., Takhedmit, H., Richalot, E., Français, O.	Dielectric property characterization of liquid media using an open-ended probe within a microfluidic chip	open-ended probe, microfluidic, dielectric spectroscopy, Debye model, parameter extraction	19, 3, 169-177	https://doi.org/10.18280/i2m.190301	Mariam, H., Poulighet, P., Takhedmit, H., Richalot, E., Français, O. (2020). Dielectric property characterization of liquid media using an open-ended probe within a microfluidic chip. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 3, pp. 169-177. https://doi.org/10.18280/i2m.190301
163	Le Menn, M., Morvan, S.	Perfecting of a calibration bed for current profilers	current meter, current profiler, Doppler effect, test, calibration, velocity measurement, oceanography, hydrology	19, 3, 179-184	https://doi.org/10.18280/i2m.190302	Le Menn, M., Morvan, S. (2020). Perfecting of a calibration bed for current profilers. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 3, pp. 179-184. https://doi.org/10.18280/i2m.190302
164	Ligot, D., Marguet, C., Favre, B., Messaoudi, B., Gervasoni, D., Litaudon, P.	Noninvasive instrumentation for respiratory activity recording in freely moving rats placed a large experimental space	instrumentation, rat, respiration monitoring, non-invasive sensor, EPIC sensor	19, 3, 185-195	https://doi.org/10.18280/i2m.190303	Ligot, D., Marguet, C., Favre, B., Messaoudi, B., Gervasoni, D., Litaudon, P. (2020). Noninvasive instrumentation for respiratory activity recording in freely moving rats placed a large experimental space. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 3, pp. 185-195. https://doi.org/10.18280/i2m.190303
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167	Wang, X.S., Khan, I., Zhang, M., Llaser, N.	Optimized design of a driver circuit for an ultrasound transducer for medical applications	HIFU, auto-tuning, ultrasound transducer, cancer treatment, ablation therapy	19, 3, 211-219	https://doi.org/10.18280/i2m.190306	Wang, X.S., Khan, I., Zhang, M., Llaser, N. (2020). Optimized design of a driver circuit for an ultrasound transducer for medical applications. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 3, pp. 211-219. https://doi.org/10.18280/i2m.190306
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173	Shi, Y.G., Wang, H.J., Yang, T., Liu, L., Cui, Y.J.	Integrated navigation by a greenhouse robot based on an odometer/lidar	greenhouse robot, simultaneous localization and mapping (SLAM), odometer, lidar, working path cruising	19, 2, 91-101	https://doi.org/10.18280/i2m.190203	Shi, Y.G., Wang, H.J., Yang, T., Liu, L., Cui, Y.J. (2020). Integrated navigation by a greenhouse robot based on an odometer/lidar. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 2, pp. 91-101. https://doi.org/10.18280/i2m.190203
174	Adegoke, O.M., Oluwafemi, I.B., Akinsanmi, O.	A time domain noise measurement and analysis for broadband indoor power line communications	background noise, electromagnetic interference, impulsive noise, power line network	19, 2, 103-110	https://doi.org/10.18280/i2m.190204	Adegoke, O.M., Oluwafemi, I.B., Akinsanmi, O. (2020). A time domain noise measurement and analysis for broadband indoor power line communications. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 2, pp. 103-110. https://doi.org/10.18280/i2m.190204
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178	Venkataraman, A.P., Veerapathran, V., Girirajkumar, S.M.	Error recursion reduction computational technique based control system design for a multivariable process	model identification, measurement, control, error minimization computational algorithm, ERRC, PSO	19, 2, 133-140	https://doi.org/10.18280/i2m.190208	Venkataraman, A.P., Veerapathran, V., Girirajkumar, S.M. (2020). Error recursion reduction computational technique based control system design for a multivariable process. <i>Instrumentation Mesure Métrologie</i> , Vol. 19, No. 2, pp. 133-140. https://doi.org/10.18280/i2m.190208
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195	Wang, Y.N., Yang, Y.M., Zhang, P.Y., Zhang, X.	A human attitude solving algorithm based on fuzzy proportional-integral-derivative controller and complementary filter	attitude solution, quaternion, complementary filter, Fuzzy Proportional-Integral-Derivative (PID) controller	18, 6, 547-552	https://doi.org/10.18280/i2m.180605	Wang, Y.N., Yang, Y.M., Zhang, P.Y., Zhang, X. (2019). A human attitude solving algorithm based on fuzzy proportional-integral-derivative controller and complementary filter. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 6, pp. 547-552. https://doi.org/10.18280/i2m.180605
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198	Latroch, M., Ahmed, D., Abdelhafid, O.	A proposed use of Kalman gains behavior of navigation measurements for the sensor fault detection in quadcopter	Inertial Measurement Unit (INS), Kalman Filter, Fault Detection and Isolation (FDI), Unmanned Aerial Vehicles (UAV), GPS	18, 6, 567-575	https://doi.org/10.18280/i2m.180608	Latroch, M., Ahmed, D., Abdelhafid, O. (2019). A proposed use of Kalman gains behavior of navigation measurements for the sensor fault detection in quadcopter. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 6, pp. 567-575. https://doi.org/10.18280/i2m.180608
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201	Kou, Z.C., Fang, Y.J.	A semi-supervised sparse representation neural network for error estimation of electricity meters with insufficient tagged samples	Artificial Neural Network (ANN), machine learning, error estimation, electricity meters	18, 6, 591-594	https://doi.org/10.18280/i2m.180611	Kou, Z.C., Fang, Y.J. (2019). A semi-supervised sparse representation neural network for error estimation of electricity meters with insufficient tagged samples. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 6, pp. 591-594. https://doi.org/10.18280/i2m.180611
202	Abderrahmane, K., Mohammed, T., Houari, A., Abdeldjalil, D.	Design and realization of an air solar heater and thermal measurement	drying of agro-food products, solar air collector, solar air heating, renewable energy in buildings, PV, thermal	18, 6, 595-602	https://doi.org/10.18280/i2m.180612	Abderrahmane, K., Mohammed, T., Houari, A., Abdeldjalil, D. (2019). Design and realization of an air solar heater and thermal measurement. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 6, pp. 595-602. https://doi.org/10.18280/i2m.180612
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204	Cucumo, M.A., Ferraro, V., Galloro, A., Gullo, D., Kaliakatos, D., Nicoletti, F.	Parametric CFD analysis for the evaluation of evaporative cooler performances	air cooler, water spray system, CFD simulation, evaporative cooler, droplet size, nozzle arrangement	18, 5, 427-434	https://doi.org/10.18280/i2m.180501	Cucumo, M.A., Ferraro, V., Galloro, A., Gullo, D., Kaliakatos, D., Nicoletti, F. (2019). Parametric CFD analysis for the evaluation of evaporative cooler performances. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 427-434. https://doi.org/10.18280/i2m.180501
205	Song, B., Li, S.L., Tan, M., Zhong, W.	An adaptive approach for ultra-wideband positioning in complex environment	Ultra-Wideband (UWB) Positioning, Non-Line-Of-Sight (NLOS) Ranging Error, Fuzzy Gaussian Process Regression (F-GPR), Moment-Based Imbalanced Binary Classification (MIBC)	18, 5, 435-443	https://doi.org/10.18280/i2m.180502	Song, B., Li, S.L., Tan, M., Zhong, W. (2019). An adaptive approach for ultra-wideband positioning in complex environment. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 435-443. https://doi.org/10.18280/i2m.180502
206	Khantach, A.E., Hamlich, M., Belbounaguia, N.	Real-time false data detection in smart grid based on fuzzy time series	false data detection, state estimation, fuzzy time series, smart grid	18, 5, 445-450	https://doi.org/10.18280/i2m.180503	Khantach, A.E., Hamlich, M., Belbounaguia, N. (2019). Real-time false data detection in smart grid based on fuzzy time series. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 445-450. https://doi.org/10.18280/i2m.180503
207	Abdou, A., Bouchala, T., Abdelhadi, B., Guettafi, A., Benoudjit, A.	Nondestructive eddy current measurement of coating thickness of aeronautical construction materials	eddy current sensor, coating thickness, inverse problem, coupled electric field method, metal sheet	18, 5, 451-457	https://doi.org/10.18280/i2m.180504	Abdou, A., Bouchala, T., Abdelhadi, B., Guettafi, A., Benoudjit, A. (2019). Nondestructive eddy current measurement of coating thickness of aeronautical construction materials. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 451-457. https://doi.org/10.18280/i2m.180504
208	Li, L., Zhao, C., Li, C.L., Qin, S.J.	End position detection of industrial robots based on laser tracker	industrial robots, identification accuracy, position detection, coordinate conversion, laser target	18, 5, 459-464	https://doi.org/10.18280/i2m.180505	Li, L., Zhao, C., Li, C.L., Qin, S.J. (2019). End position detection of industrial robots based on laser tracker. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 459-464. https://doi.org/10.18280/i2m.180505

209	Alam, M.S., Muthiah, A., Salve, U.R.	Thermal comfort of the kitchen in pantry cars on indian railways	thermal sensation, neutral temperature, Comfort Range, Predicted Mean Vote (PMV), Predicted Percentage Dissatisfied (PPD)	18, 5, 465-477	https://doi.org/10.18280/i2m.180506	Alam, M.S., Muthiah, A., Salve, U.R. (2019). Thermal comfort of the kitchen in pantry cars on indian railways. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 465-477. https://doi.org/10.18280/i2m.180506
210	Zhang, C.G., Zha, D.H., Zhou, S., Zhou, H.X., Jiang, H.D.	3D visualization of landslide based on close-range photogrammetry	landslide, 3D reconstruction, close-range photogrammetry, cloud data, Triangulated Irregular Network (TIN)	18, 5, 479-484	https://doi.org/10.18280/i2m.180507	Zhang, C.G., Zha, D.H., Zhou, S., Zhou, H.X., Jiang, H.D. (2019). 3D visualization of landslide based on close-range photogrammetry. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 479-484. https://doi.org/10.18280/i2m.180507
211	Abdou, A., Safer, O.A., Bouchala, T., Bendaikha, A., Abdelhadi, B., Guettafi, A., Benoudjit, A.	An eddy current nondestructive method for crack detection in multilayer riveted structures	eddy current, multilayer, nondestructive testing, finite element method, riveted structures, hidden cracks	18, 5, 485-490	https://doi.org/10.18280/i2m.180508	Abdou, A., Safer, O.A., Bouchala, T., Bendaikha, A., Abdelhadi, B., Guettafi, A., Benoudjit, A. (2019). An eddy current nondestructive method for crack detection in multilayer riveted structures. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 485-490. https://doi.org/10.18280/i2m.180508
212	Mihoub, R., Amroune, A., Bekkouche, S.M.E.A., Djeflal, R., Benkhelifa, A.	A novel temperature estimation model for limestone soil	limestone soil, temperature, solar radiation, estimation	18, 5, 491-496	https://doi.org/10.18280/i2m.180509	Mihoub, R., Amroune, A., Bekkouche, S.M.E.A., Djeflal, R., Benkhelifa, A. (2019). A novel temperature estimation model for limestone soil. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 491-496. https://doi.org/10.18280/i2m.180509
213	Yuan, H.B.	Development and application of a modular automobile wheel measuring instrument	portable, automobile wheel, runout measurement, harmonic analysis, LPC2294	18, 5, 497-502	https://doi.org/10.18280/i2m.180510	Yuan, H.B. (2019). Development and application of a modular automobile wheel measuring instrument. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 497-502. https://doi.org/10.18280/i2m.180510
214	Habib, R.S., Abdelhamid, B., Mohamed, B., Larbi, A.A.	Numerical simulation of reactive flow of two turbulence models based on probability density function	reactive flow, flamelet regime, turbulence, combustion, numerical simulation	18, 5, 503-508	https://doi.org/10.18280/i2m.180511	Habib, R.S., Abdelhamid, B., Mohamed, B., Larbi, A.A. (2019). Numerical simulation of reactive flow of two turbulence models based on probability density function. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 5, pp. 503-508. https://doi.org/10.18280/i2m.180511
215	Mutani, G., Todeschi, V., Matsuo, K.	Urban heat island mitigation: a GIS-based model for Hiroshima	Urban Heat Island (UHI), microclimate, linear regression models, urban environment, satellite images, GIS, urban morphology, NDVI, albedo	18, 4, 323-335	https://doi.org/10.18280/i2m.180401	Mutani, G., Todeschi, V., Matsuo, K. (2019). Urban heat island mitigation: A GIS-based model for Hiroshima. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 323-335. https://doi.org/10.18280/i2m.180401
216	Belmecheri, H., Seghier, T., Belkheiri, M., Zegnini, B.	Insulating and thermal aging dielectric properties dependency of transformer oil using spectroscopy techniques	power transformer, mineral oil, dielectrics, aging, degradation, frequency domain	18, 4, 337-342	https://doi.org/10.18280/i2m.180402	Belmecheri, H., Seghier, T., Belkheiri, M., Zegnini, B. (2019). Insulating and thermal aging dielectric properties dependency of transformer oil using spectroscopy techniques. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 337-342. https://doi.org/10.18280/i2m.180402
217	Chen, S.R., Qu, X.Y., Qiu, L.W., Zhang, Y.C., Du, T.	A statistical method for lithic content based on core measurement, image analysis and microscopic statistics in sand-conglomerate reservoir	sand-conglomerate reservoir, gravel-level lithics, sand-level lithics, dongying depression, full-bore formation microimager (FMI); imaging logging	18, 4, 343-352	https://doi.org/10.18280/i2m.180403	Chen, S.R., Qu, X.Y., Qiu, L.W., Zhang, Y.C., Du, T. (2019). A statistical method for lithic content based on core measurement, image analysis and microscopic statistics in sand-conglomerate reservoir. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 343-352. https://doi.org/10.18280/i2m.180403
218	Maurya, N.K., Rastogi, V., Singh, P.	Comparative study and measurement of form errors for the component printed by FDM and polyjet process	rapid prototyping, dimensional accuracy, flatness analysis, IT grades, surface roughness, cylindricity analysis, analysis of roundness	18, 4, 353-359	https://doi.org/10.18280/i2m.180404	Maurya, N.K., Rastogi, V., Singh, P. (2019). Comparative study and measurement of form errors for the component printed by FDM and polyjet process. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 353-359. https://doi.org/10.18280/i2m.180404
219	Ye, Z.X., Zhang, Y., Zou, J.F., Zheng, Y.	Tunnel measurement of riblet drag reduction	tunnel measurement, riblet surface, turbulent boundary layer, Hot-Wire Anemometer (HWA), Drag Reduction	18, 4, 361-367	https://doi.org/10.18280/i2m.180405	Ye, Z.X., Zhang, Y., Zou, J.F., Zheng, Y. (2019). Tunnel measurement of riblet drag reduction. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 361-367. https://doi.org/10.18280/i2m.180405
220	Touahria, A., Bougriou, C.	Numerical investigation of a new ventilation-radiator	Cross Flow, CFD, COP, economical system, elliptic tubes, heating system, Transfer Coefficient by Convection (acon), ventilation-radiator	18, 4, 369-380	https://doi.org/10.18280/i2m.180406	Touahria, A., Bougriou, C. (2019). Numerical investigation of a new ventilation-radiator. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 369-380. https://doi.org/10.18280/i2m.180406
221	Hua, W.X., Zhang, W.M., Li, J., Li, X.X., Li, X., Shen, T.G.	Measurement of flow field in waterjet nozzles with different structures	flow field, specific energy, impact distance, nozzle structure	18, 4, 381-388	https://doi.org/10.18280/i2m.180407	Hua, W.X., Zhang, W.M., Li, J., Li, X.X., Li, X., Shen, T.G. (2019). Measurement of flow field in waterjet nozzles with different structures. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 381-388. https://doi.org/10.18280/i2m.180407
222	Mediani, A., Mounzar, H., Larbi, A.A., Loumani, A., Chaouch, W.B., Djaber, A., Tigani, C., Benatallah, A.	The isothermal sorption measurement and the isosteric heats determinations for the south algerian date varieties	sorption isotherm, solar drying, gravimetric method, isosteric heats, date varieties, GAB and smith models	18, 4, 389-396	https://doi.org/10.18280/i2m.180408	Mediani, A., Mounzar, H., Larbi, A.A., Loumani, A., Chaouch, W.B., Djaber, A., Tigani, C., Benatallah, A. (2019). The isothermal sorption measurement and the isosteric heats determinations for the South Algerian date varieties. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 389-396. https://doi.org/10.18280/i2m.180408
223	Ren, S.Q., Dong, C.M., Chen, X.J., Wang, C.H.	Improving the measurement accuracy of SINS through calibration on horizontal three-axis turntable	SINS, systematic calibration, Horizontal Three-Axis Turntable (3AT), errors, gyro	18, 4, 397-406	https://doi.org/10.18280/i2m.180409	Ren, S.Q., Dong, C.M., Chen, X.J., Wang, C.H. (2019). Improving the measurement accuracy of sins through calibration on horizontal three-axis turntable. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 397-406. https://doi.org/10.18280/i2m.180409
224	Maheshan, C.M., Kumar, H.P.	Image enhancement of transformer oil images using improved complex shock filter	CSF, ICSF, MSE, OSF, PSNR, SSIM, transformer Oil	18, 4, 407-412	https://doi.org/10.18280/i2m.180410	Maheshan, C.M., Kumar, H.P. (2019). Image enhancement of transformer oil images using improved complex shock filter. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 407-412. https://doi.org/10.18280/i2m.180410

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226	Wang, C.F.	Comparative analysis on influencing factors of alignment monitoring between continuous rigid-frame bridge and continuous girder bridge	Continuous Rigid-Frame (CRF) Bridge, Continuous Girder (CG) Bridge, construction sequences, cumulative displacement	18, 4, 421-425	https://doi.org/10.18280/i2m.180412	Wang, C.F. (2019). Comparative analysis on influencing factors of alignment monitoring between continuous rigid-frame bridge and continuous girder bridge. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 4, pp. 421-425. https://doi.org/10.18280/i2m.180412
227	Jagtap, H.P., Bewoor, A., Kumar, R.	Thermal power plant condenser fault diagnosis using coordinated condition monitoring approach	reliability analysis, preventive maintenance, vibration analysis, noise measurement, ultrasound	18, 3, 223-235	https://doi.org/10.18280/i2m.180301	Jagtap, H.P., Bewoor, A., Kumar, R. (2019). Thermal power plant condenser fault diagnosis using coordinated condition monitoring approach. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 223-235. https://doi.org/10.18280/i2m.180301
228	Liu, X., Qiao, X., Shi, X.D., Liu, Q.M., Shi, Y.G.	A novel apple size and surface quality detection and grading system	LabVIEW, particle area, surface quality, grading, manipulator and motion control	18, 3, 237-242	https://doi.org/10.18280/i2m.180302	Liu, X., Qiao, X., Shi, X.D., Liu, Q.M., Shi, Y.G. (2019). A novel apple size and surface quality detection and grading system. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 237-242. https://doi.org/10.18280/i2m.180302
229	Ouarhrent, F., Soudani, A.	Numerical study of the effect of permeability in a partially porous medium	porous medium, permeability, heat transfer, natural convection, cubic cavity	18, 3, 243-248	https://doi.org/10.18280/i2m.180303	Ouarhrent, F., Soudani, A. (2019). Numerical study of the effect of permeability in a partially porous medium. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 243-248. https://doi.org/10.18280/i2m.180303
230	Xi, G.Q., Huang, C.J., Liu, S.Q.	A multi-sensor data fusion method for nondestructive testing of oil pipelines	nondestructive testing, multi-sensor data fusion, dempster-shafer theory (DST), fuzzy linear regression	18, 3, 249-255	https://doi.org/10.18280/i2m.180304	Xi, G.Q., Huang, C.J., Liu, S.Q. (2019). A multi-sensor data fusion method for nondestructive testing of oil pipelines. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 249-255. https://doi.org/10.18280/i2m.180304
231	Moulay, F., Habbati, A., Hamdaoui, H.	Application and control of a doubly fed induction machine integrated in wind energy system	doubly fed asynchronous machine, flux orientation command (FOC), wind turbine, doubly-fed induction generator, wind energy conversion system	18, 3, 257-265	https://doi.org/10.18280/i2m.180305	Moulay, F., Habbati, A., Hamdaoui, H. (2019). Application and control of a doubly fed induction machine integrated in wind energy system. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 257-265. https://doi.org/10.18280/i2m.180305
232	Huang, C., Yi, G.X., Zeng, Q.S., Hu, L., Xu, Z.Y.	Design and software implementation of a navigation accuracy evaluation based on error model solution	gyro, accelerometer, course effect, the second-order error related to the specific force (SF2E), navigation accuracy	18, 3, 267-273	https://doi.org/10.18280/i2m.180306	Huang, C., Yi, G.X., Zeng, Q.S., Hu, L., Xu, Z.Y. (2019). Design and software implementation of a navigation accuracy evaluation based on error model solution. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 267-273. https://doi.org/10.18280/i2m.180306
233	Reda, H.M., Abdelylah, B.	Numerical investigation and solar flux distribution analysis of parabolic trough solar collector by adding secondary reflector	heat transfer enhancement, parabolic trough collector, non-uniform heat flux, nusselt number, secondary reflector, computational fluid dynamic	18, 3, 275-280	https://doi.org/10.18280/i2m.180307	Reda, H.M., Abdelylah, B. (2019). Numerical investigation and solar flux distribution analysis of parabolic trough solar collector by adding secondary reflector. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 275-280. https://doi.org/10.18280/i2m.180307
234	Oaddi, R., Tiskatine, R., Boulaïd, M., Bammou, L., Aharoune, A., Ihlal, A.	Thermo-physical properties measurements of an insulating material extracted from different date palm trees	thermal insulation, thermo-physical properties, transient plane source method, porous material, fiber orientation, waste materials	18, 3, 281-287	https://doi.org/10.18280/i2m.180308	Oaddi, R., Tiskatine, R., Boulaïd, M., Bammou, L., Aharoune, A., Ihlal, A. (2019). Thermo-physical properties measurements of an insulating material extracted from different date palm trees. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 281-287. https://doi.org/10.18280/i2m.180308
235	Cui, Z., Wang, Y.X.	Denosing of seismic signals through wavelet transform based on entropy and inter-scale correlation model	entropy, inter-scale correlation, seismic signal, denoising	18, 3, 289-295	https://doi.org/10.18280/i2m.180309	Cui, Z., Wang, Y.X. (2019). Denosing of seismic signals through wavelet transform based on entropy and inter-scale correlation model. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 289-295. https://doi.org/10.18280/i2m.180309
236	Larbi, A.A., Loumani, A., Mediani, A., Bennaceur, S., Tigani, C.	Experimental measurement of moisture sorption isotherms and isosteric heat of palm hearts (jomare) harvested in the algerian sahara	solar dryer, palm heart, modelling, hygroscopic, isosteric desorption heats	18, 3, 297-304	https://doi.org/10.18280/i2m.180310	Larbi, A.A., Loumani, A., Mediani, A., Bennaceur, S., Tigani, C. (2019). Experimental measurement of moisture sorption isotherms and isosteric heat of palm hearts (Jomare) harvested in the Algerian Sahara. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 297-304. https://doi.org/10.18280/i2m.180310
237	Hanan, Gunawan, A.A.N., Sumadiyasa, M.	Water level detection system based on ultrasonic sensors hc-sr04 and esp8266-12 modules with telegram and buzzer communication media	HC-SR04, ESP8266-12E, buzzer, telegram	18, 3, 305-309	https://doi.org/10.18280/i2m.180311	Hanan, Gunawan, A.A.N., Sumadiyasa, M. (2019). Water level detection system based on ultrasonic sensors HC-SR04 and ESP8266-12 modules with telegram and buzzer communication media. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 305-309. https://doi.org/10.18280/i2m.180311
238	Younes, T.M., Tutunji, T.A., Soliman, A., Dalabeeh, A.K.	A methodology to measure cp / cv ratio using u-shape acoustic resonance tube	acoustic resonance, U-shape resonance tube, specific heat ratio, standing wave	18, 3, 311-316	https://doi.org/10.18280/i2m.180312	Younes, T.M., Tutunji, T.A., Soliman, A., Dalabeeh, A.K. (2019). A methodology to measure CP / CV ratio using U-shape acoustic resonance tube. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 311-316. https://doi.org/10.18280/i2m.180312
239	Li, L.H., Xing, Y.Z., Wen, P., Yu, Y., Li, C.C., Huang, R.L.	Measurement and prediction of rectal temperature of chicken based on genetic programming	monitoring devices, layer, wing temperature, GP, data-simulation, body temperature monitoring	18, 3, 317-322	https://doi.org/10.18280/i2m.180313	Li, L.H., Xing, Y.Z., Wen, P., Yu, Y., Li, C.C., Huang, R.L. (2019). Measurement and prediction of rectal temperature of chicken based on genetic programming. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 3, pp. 317-322. https://doi.org/10.18280/i2m.180313
240	Kherrou, S., Bouhdjar, A., Hanini, S., Boualit, A., Lalmi, D.	Numerical study of a longitudinal solar dryer in semi-arid area; case study	solar dryer, thermal regulation, solar radiation, numerical simulation, reynold number	18, 2, 95-103	https://doi.org/10.18280/i2m.180201	Kherrou, S., Bouhdjar, A., Hanini, S., Boualit, A., Lalmi, D. (2019). Numerical study of a longitudinal solar dryer in semi-arid area; Case study. <i>Instrumentation Mesure Métrologie</i> , Vol. 18, No. 2, pp. 95-103. https://doi.org/10.18280/i2m.180201

241	Deng, K., Chen, L., Li, W.P.	An overlapping community detection algorithm with label propagation control for complex networks	complex networks, community detection, label propagation, overlapping communities	18, 2, 105-109	https://doi.org/10.18280/i2m.180202	Deng, K., Chen, L., Li, W.P. (2019). An overlapping community detection algorithm with label propagation control for complex networks. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 105-109. https://doi.org/10.18280/i2m.180202
242	Sura, P.R., Reddy, S.N.	Medical plus shaped antenna for s, c, x and ku band applications	ku-band, multi-band operation, radiating patch, return loss, triple band	18, 2, 111-114	https://doi.org/10.18280/i2m.180203	Sura, P.R., Reddy, S.N. (2019). Medical plus shaped antenna for S, C, X and ku band applications. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 111-114. https://doi.org/10.18280/i2m.180203
243	Huang, C., Yi, G.X., Zen, Q.S., Hu, L., Xu, Z.Y.	A navigation accuracy evaluation method for multi-path platform inertial navigation system	Platform Inertial Navigation System (PINS), navigation accuracy, Principal Component Analysis (PCA), Least Squares Support Vector Machine (LSSVM), pruning algorithm	18, 2, 115-121	https://doi.org/10.18280/i2m.180204	Huang, C., Yi, G.X., Zen, Q.S., Hu, L., Xu, Z.Y. (2019). A navigation accuracy evaluation method for multi-path platform inertial navigation system. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 115-121. https://doi.org/10.18280/i2m.180204
244	Younes, T.M., AlKhedher, M.A., Shgier, K.A., Al Taweel, F.	U-shape acoustic liquid densitometer	acoustic, densitometer, hydrostatic, resonance, standing wave	18, 2, 123-128	https://doi.org/10.18280/i2m.180205	Younes, T.M., AlKhedher, M.A., Shgier, K.A., Al Taweel, F. (2019). U-shape acoustic liquid densitometer. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 123-128. https://doi.org/10.18280/i2m.180205
245	Liu, W.J., Ding, L., Wang, C.B., Zhao, B.C.	Behavior mechanism of internet product consumers transferring from personal computer terminal to mobile terminal	behavioral transfer, brand extension, continuance intention, perceived integrity	18, 2, 129-135	https://doi.org/10.18280/i2m.180206	Liu, W.J., Ding, L., Wang, C.B., Zhao, B.C. (2019). Behavior mechanism of internet product consumers transferring from personal computer terminal to mobile terminal. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 129-135. https://doi.org/10.18280/i2m.180206
246	Zouggar, E.O., Chaouch, S., Abdeslam, D.O., Abdelhamid, A.L.	Sliding control with fuzzy type-2 controller of wind energy system based on doubly fed induction generator	wind turbine- modeling - DFIG - Powers Regulation- Sliding Mode Control- Type-2 Fuzzy Logic Control- Robust Control	18, 2, 137-146	https://doi.org/10.18280/i2m.180207	Zouggar, E.O., Chaouch, S., Abdeslam, D.O., Abdelhamid, A.L. (2019). Sliding control with fuzzy type-2 controller of wind energy system based on doubly fed induction generator. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 137-146. https://doi.org/10.18280/i2m.180207
247	Huang, W.J., Zhao, W., Zhang, J.	Visual servo system based on cubature kalman filter and backpropagation neural network	visual servo system, cubature kalman filter, neural network, image jacobian matrix	18, 2, 147-151	https://doi.org/10.18280/i2m.180208	Huang, W.J., Zhao, W., Zhang, J. (2019). Visual servo system based on cubature kalman filter and backpropagation neural network. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 147-151. https://doi.org/10.18280/i2m.180208
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249	Yu, S.P., Yang, S.S., Chen, W.Q., Mao, W.W.	An electromagnetic detection method for grain silos based on finite difference time domain and ground penetration radar	finite difference time domain (FDTD), ground penetration radar (GPR), grain pile density, dielectric constant, free space transmission	18, 2, 159-164	https://doi.org/10.18280/i2m.180210	Yu, S.P., Yang, S.S., Chen, W.Q., Mao, W.W. (2019). An electromagnetic detection method for grain silos based on finite difference time domain and ground penetration radar. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 159-164. https://doi.org/10.18280/i2m.180210
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251	Mouffok, M., Aidaoui, L., Zemmouri, N.	Evaluation study of energy performance and conformity to regulations for ordinary and hep housings: case study based on measurements at djelfa city, algeria	energy performance, algerian thermal regulatory, high energy performance housing HEP, regulatory technical document RTD C3-2	18, 2, 171-180	https://doi.org/10.18280/i2m.180212	Mouffok, M., Aidaoui, L., Zemmouri, N. (2019). Evaluation study of energy performance and conformity to regulations for ordinary and HEP Housings: Case study based on measurements at Djelfa City, Algeria. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 171-180. https://doi.org/10.18280/i2m.180212
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255	Huleihil, M.M.	Parametric study of uniform heat sink design	heat sink, passive cooling, heat dissipation, single component, solar cell, thermoelectric cooling, led	18, 2, 201-209	https://doi.org/10.18280/i2m.180216	Huleihil, M.M. (2019). Parametric study of uniform heat sink design. <i>Instrumentation Measure Metrologie</i> , Vol. 18, No. 2, pp. 201-209. https://doi.org/10.18280/i2m.180216
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258	Suneetha, A.R.V.N., Narasimhareddy, K.V.	Secure energy trade-offs in wireless sensor networks	wireless networks, sensor networks, energy consumption, security, key affiliation	18, 1, 9-13	https://doi.org/10.18280/i2m.180102	Suneetha, A.R.V.N., Narasimhareddy, K.V. (2019). Secure energy trade-offs in wireless sensor networks. <i>Instrumentation Mesure Metrologie</i> , Vol. 18, No. 1, pp. 9-13. https://doi.org/10.18280/i2m.180102
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275	Liu, F.M., Lu, W., Cai, Z.Y.	Design and implementation of an infrared radiation sensor based on STC12C5A	infrared temperature measurement, STC12C5A, non-contact, MLX90614	17, 4, 593-603	https://doi.org/10.3166/I2M.17.593-603	Liu, F.M., Lu, W., Cai, Z.Y. (2018). Design and implementation of an infrared radiation sensor based on STC12C5A. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 4, pp. 593-603. https://doi.org/10.3166/I2M.17.593-603
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277	Wang, Q.H.	An intelligent, automatic body measurement system based on ultrasonic sensor arrays	garment customization, body measurement, ultrasonic sensor array, curve fitting	17, 4, 625-639	https://doi.org/10.3166/I2M.17.625-639	Wang, Q.H. (2018). An intelligent, automatic body measurement system based on ultrasonic sensor arrays. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 4, pp. 625-639. https://doi.org/10.3166/I2M.17.625-639
278	Usefian, A., Bayareh, M.	Numerical study of heat transfer and exergy analysis of a heat exchanger with single and double segmental baffles	heat transfer, exergy, heat exchanger, segmental baffles, double baffles	17, 4, 641-652	https://doi.org/10.3166/I2M.17.641-652	Usefian, A., Bayareh, M. (2018). Numerical study of heat transfer and exergy analysis of a heat exchanger with single and double segmental baffles. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 4, pp. 641-652. https://doi.org/10.3166/I2M.17.641-652
279	Elembaby S.M., Ghoneim V.F., Wahed M.A.	Comparing gene regulatory inferring algorithms with different perspective	gene regulatory network, adjacency matrix, distance metrics	17, 4, 653-661	https://doi.org/10.3166/I2M.17.653-661	Elembaby, S.M., Ghoneim, V.F., Wahed, M.A. (2018). Comparing gene regulatory inferring algorithms with different perspective. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 4, pp. 653-661. https://doi.org/10.3166/I2M.17.653-661
280	Elembaby, S.M., Ghoneim, V.F., Wahed, M.A.	Identification of pests hidden in wheat kernels based on support vector machine classifier	grain kernels, support vector machine, classification, characteristic parameter	17, 4, 663-674	https://doi.org/10.3166/I2M.17.663-674	Li, Z.F., Zhen, T., Zhu, Y.H. (2018). Identification of pests hidden in wheat kernels based on support vector machine classifier. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 4, pp. 663-674. https://doi.org/10.3166/I2M.17.663-674
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282	Barrile, V., Fotia, A.	3D Modeling by thermography for non-destructive analysis of archaeological heritage	archaeological heritage, 3D model, thermography	17, 3, 393-410	https://doi.org/10.3166/I2M.17.393-410	Barrile, V., Fotia, A. (2018). 3D Modeling by thermography for non-destructive analysis of archaeological heritage. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 3, pp. 393-410. https://doi.org/10.3166/I2M.17.393-410
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286	Singh, R.K., Sharma, R.V.	Thermal performance of a co-axial borehole heat exchanger	borehole heat exchanger, thermal performance, CFD, analytical method, AICO, CIAO	17, 3, 455-466	https://doi.org/10.3166/I2M.17.455-466	Singh, R.K., Sharma, R.V. (2018). Thermal performance of a co-axial borehole heat exchanger. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 3, pp. 443-453. https://doi.org/10.3166/I2M.17.455-466
287	Wu, Q., Teng, Y.T., Zhang, B., Xing, L.L.	An application of genetic algorithm to improving measurement accuracy of laser interference absolute gravimeter	vibration isolation, genetic algorithm, absolute gravimeter, gravity measurement	17, 3, 467-477	https://doi.org/10.3166/I2M.17.467-477	Wu, Q., Teng, Y.T., Zhang, B., Xing, L.L. (2018). An application of genetic algorithm to improving measurement accuracy of laser interference absolute gravimeter. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 3, pp. 467-477. https://doi.org/10.3166/I2M.17.467-477
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290	Chen, B.Q., Jiang, D., Zhang, J., Gao, J., Fan, X.T.	Monitoring of 3D large surface deformation in coal mines through the integration of synthetic aperture radar pixel offset tracking and probability integration function model	Interferometric Synthetic Aperture Radar (InSAR), large deformation, deformation monitoring, Pixel Offset Tracking (POT), Probability Integration Function Model (PIFM)	17, 3, 507-519	https://doi.org/10.3166/I2M.17.507-519	Chen, B.Q., Jiang, D., Zhang, J., Gao, J., Fan, X.T. (2018). Monitoring of 3D large surface deformation in coal mines through the integration of synthetic aperture radar pixel offset tracking and probability integration function model. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 3, pp. 507-519. https://doi.org/10.3166/I2M.17.507-519
291	Chabane, F., Moummi, N., Brima, A.	Estimation of Ultraviolet A (315–400 nm) and Ultraviolet B (280–315 nm) on region of Biskra	Ultraviolet A, Ultraviolet B, sun height solar radiation	17, 2, 193-204	https://doi.org/10.3166/I2M.17.193-204	Chabane, F., Moummi, N., Brima, A. (2018). Estimation of Ultraviolet A (315–400 nm) and Ultraviolet B (280–315 nm) on region of Biskra. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 193-204. https://doi.org/10.3166/I2M.17.193-204
292	Papade, C.V., Wale, R.S.	Analysis of air conditioning system by using nanorefrigerant	air conditioning system, nanoparticles, COP, nano-refrigerant, power consumption	17, 2, 205-217	https://doi.org/10.3166/I2M.17.205-217	Papade, C.V., Wale, R.S. (2018). Analysis of air conditioning system by using nanorefrigerant. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 205-217. https://doi.org/10.3166/I2M.17.205-217
293	Xia, Q., Qu, W.J., Li, Y.Q., Zhao, J.	Analysis of natural vibration frequency of different support slabs under the traffic vibration based on field measurement	energy method, natural vibration frequency, numerical simulation, theoretical calculation	17, 2, 219-233	https://doi.org/10.3166/I2M.17.219-233	Xia, Q., Qu, W.J., Li, Y.Q., Zhao, J. (2018). Analysis of natural vibration frequency of different support slabs under the traffic vibration based on field measurement. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 219-233. https://doi.org/10.3166/I2M.17.219-233
294	Dahham, R.Y., Alkhafaji, D., Al-Jelawy, H., Hadi, S.J.	Experimental and numerical study of the effect of vibration on airflow between can combustor liner and casing	annulus flow, can combustor, CFD simulation, pitot - static tube, velocity profile, fluid-structure interface, forced vibration and flow-induced vibration	17, 2, 235-257	https://doi.org/10.3166/I2M.17.235-257	Dahham, R.Y., Alkhafaji, D., Al-Jelawy, H., Hadi, S.J. (2018). Experimental and numerical study of the effect of vibration on airflow between can combustor liner and casing. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 235-257. https://doi.org/10.3166/I2M.17.235-257
295	Chen, Y.Z.	Evaluation of technological progress and technical efficiency based on sequential data development analysis and Malmquist index decomposition	total factor productivity, sequential de-malmquist productivity index model, technological progress, technical efficiency	17, 2, 259-272	https://doi.org/10.3166/I2M.17.259-272	Chen, Y.Z. (2018). Evaluation of technological progress and technical efficiency based on sequential data development analysis and Malmquist index decomposition. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 259-272. https://doi.org/10.3166/I2M.17.259-272
296	Kuma, V., Prasad, L.	Performance prediction of three sides hemispherical dimple roughened solar duct	concave dimple, one and three sides roughened duct, relative roughness height relative roughness pitch, solar air heater	17, 2, 273-293	https://doi.org/10.3166/I2M.17.273-293	Kuma, V., Prasad, L. (2018). Performance prediction of three sides hemispherical dimple roughened solar duct. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 273-293. https://doi.org/10.3166/I2M.17.273-293
297	Xu, H.X., Duan, X.M.	Efficient estimation for partially linear varying-coefficient errors-in-variables models with heteroscedastic errors	varying-coefficient partially linear model, profile least squares, errors-in-variables, heteroscedasticity, re-weighted estimation	17, 2, 295-314	https://doi.org/10.3166/I2M.17.295-314	Xu, H.X., Duan, X.M. (2018). Efficient estimation for partially linear varying-coefficient errors-in-variables models with heteroscedastic errors. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 295-314. https://doi.org/10.3166/I2M.17.295-314
298	Gupta, A.K., Kumar, M., Panda, D., Sahoo, R.K.	Experimental analysis to predict the performance of a plate fin heat exchanger at cryogenics temperature	plate-fin heat exchanger, aspen, experimental study	17, 2, 315-329	https://doi.org/10.3166/I2M.17.315-329	Gupta, A.K., Kumar, M., Panda, D., Sahoo, R.K. (2018). Experimental analysis to predict the performance of a plate fin heat exchanger at cryogenics temperature. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 315-329. https://doi.org/10.3166/I2M.17.315-329
299	Biswas, R., Mondal, M., Islam, A.	A steady MHD natural convection and heat transfer fluid flow through a vertical surface in the existence of hall current and radiation	hall current, magnetic field, natural convection, radiation, MHD, EFDM	17, 2, 331-356	https://doi.org/10.3166/I2M.17.331-356	Biswas, R., Mondal, M., Islam, A. (2018). A steady MHD natural convection and heat transfer fluid flow through a vertical surface in the existence of hall current and radiation. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 331-356. https://doi.org/10.3166/I2M.17.331-356
300	Yuan, D.B., Ma, X., Li, M., Liang, C., Hou, X.B.	Comparison between cycle slip detection methods based on dual-frequency observation data	BDS, cycle slip detection, ionosphere residual method, phase reduction pseudo range method, equation, threshold value, different type	17, 2, 357-367	https://doi.org/10.3166/I2M.17.357-367	Yuan, D.B., Ma, X., Li, M., Liang, C., Hou, X.B. (2018). Comparison between cycle slip detection methods based on dual-frequency observation data. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 2, pp. 357-367. https://doi.org/10.3166/I2M.17.357-367
301	Murmu, R., Kumar, P., Singh, H.N.	Experimental investigation on heat transfer and friction factor for an inclined spherical ball roughened solar air heater	solar energy, spherical ball, relative roughness pitch, relative roughness height, height to diameter ratio, angle of attack	17, 1, 7-36	https://doi.org/10.3166/I2M.17.7-36	Murmu, R., Kumar, P., Singh, H.N. (2018). Experimental investigation on heat transfer and friction factor for an inclined spherical ball roughened solar air heater. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 7-36. https://doi.org/10.3166/I2M.17.7-36
302	Chabane, F., Sekseff, E.	Solar air collectors with doubles glazed by different distances in support of mass flow	double-glazed, solar air collector, efficiency, mass flow rate, thermal losses	17, 1, 37-53	https://doi.org/10.3166/I2M.17.37-53	Chabane, F., Sekseff, E. (2018). Solar air collectors with doubles glazed by different distances in support of mass flow. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 37-53. https://doi.org/10.3166/I2M.17.37-53
303	Tao, T.J., Huang, P., Wang, S.P., Luo, Y.	Safety evaluation of blasting fly-rock based on unascertained measurement model	blasting fly-rock, safety pre-evaluation, unascertained measurement, index weight	17, 1, 55-62	https://doi.org/10.3166/I2M.17.55-62	Tao, T.J., Huang, P., Wang, S.P., Luo, Y. (2018). Safety evaluation of blasting fly-rock based on unascertained measurement model. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 55-62. https://doi.org/10.3166/I2M.17.55-62
304	Bouزيد, S., Harnane, Y., Brima, A.	Characterization of turbulent natural and mixed convection in confined enclosures equipped with a heat source	fluent, turbulence model, CFD, heat transfer, closed cavities, ventilated cavities	17, 1, 63-79	https://doi.org/10.3166/I2M.17.63-79	Bouزيد, S., Harnane, Y., Brima, A. (2018). Characterization of turbulent natural and mixed convection in confined enclosures equipped with a heat source. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 63-79. https://doi.org/10.3166/I2M.17.63-79

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306	Benmenine, D., Bentebbiche, A.	Influence of air preheat temperature and excess air in a reverse flow combustor	reverse-flow combustor, eddy dissipation concept, air-preheat temperature, excess air	17, 1, 93-111	https://doi.org/10.3166/I2M.17.93-111	Benmenine, D., Bentebbiche, A. (2018). Influence of air preheat temperature and excess air in a reverse flow combustor. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 93-111. https://doi.org/10.3166/I2M.17.93-111
307	Chu, X., Zhou, Z.X., Xiang, X.J., He, S.L., Hou, X.	Monitoring of long-span bridge deformation based on 3D laser scanning	deformation monitoring, ground-based 3d, laser scanning, Nurbs surfaces, point cloud precision	17, 1, 113-130	https://doi.org/10.3166/I2M.17.113-130	Chu, X., Zhou, Z.X., Xiang, X.J., He, S.L., Hou, X. (2018). Monitoring of long-span bridge deformation based on 3D laser scanning. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 113-130. https://doi.org/10.3166/I2M.17.113-130
308	Blaise, K.K., Magloire, K.E.P., Prosper, G.	Thermal performance evaluation of an indirect solar dryer	indirect solar dryer, thermal efficiency, temperature, solar radiation	17, 1, 131-151	https://doi.org/10.3166/I2M.17.131-151	Blaise, K.K., Magloire, K.E.P., Prosper, G. (2018). Thermal performance evaluation of an indirect solar dryer. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 131-151. https://doi.org/10.3166/I2M.17.131-151
309	Tirono, M., Suharningsih, Apsari, R., Yasin, M., Gunawan, A.A.N.	Combination model of electric field and light for deactivation biofilm bacteria	combination model of electric field and light for deactivation biofilm bacteria	17, 1, 153-165	https://doi.org/10.3166/I2M.17.153-165	Tirono, M., Suharningsih, Apsari, R., Yasin, M., Gunawan, A.A.N. (2018). Combination model of electric field and light for deactivation biofilm bacteria. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 153-165. https://doi.org/10.3166/I2M.17.153-165
310	Yang, J.H., Kong, D.Y.	Construction measuring and deformation analysis of foundation pit in deep silt soil layer under complicated environment	deep foundation pit, deep silt layer, monitoring, deformation analysis	17, 1, 167-185	https://doi.org/10.3166/I2M.17.167-185	Yang, J.H., Kong, D.Y. (2018). Construction measuring and deformation analysis of foundation pit in deep silt soil layer under complicated environment. <i>Instrumentation Mesure Métrologie</i> , Vol. 17, No. 1, pp. 167-185. https://doi.org/10.3166/I2M.17.167-185
311	Marreiro, A., Beaumont, F., Taiar, R., Polidori, G.	Application of infrared thermal imaging and computational fluid dynamics techniques to whole body cryotherapy (WBC)	computational fluid dynamics, convective-radiative model, cryotherapy, infrared thermography	16, 1-4, 11-32	https://doi.org/10.3166/i2m.16.1-4.11-32	Marreiro, A., Beaumont, F., Taiar, R., Polidori, G. (2017). Application of infrared thermal imaging and computational fluid dynamics techniques to whole body cryotherapy (WBC). <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 11-32. https://doi.org/10.3166/i2m.16.1-4.11-32
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313	Pohardy, A., Dogon, C., Carré, C., Fève, S., Hardy, I., Besnard, P.	Data transmission in free space and quantum cascade laser	chaos-based secure communications, data transmission, free space, quantum cascade laser	16, 1-4, 51-59	https://doi.org/10.3166/i2m.16.1-4.51-59	Pohardy, A., Dogon, C., Carré, C., Fève, S., Hardy, I., Besnard, P. (2017). Data transmission in free space and quantum cascade laser. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 51-59. https://doi.org/10.3166/i2m.16.1-4.51-59
314	Carré, C., Ley, C., Allonas, X.	Comparison of different photopolymerizable systems for holographic recording	data storage, holographic grating, photopolymerization, photosensitizer	16, 1-4, 61-70	https://doi.org/10.3166/i2m.16.1-4.61-70	Carré, C., Ley, C., Allonas, X. (2017). Comparison of different photopolymerizable systems for holographic recording. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 61-70. https://doi.org/10.3166/i2m.16.1-4.61-70
315	Durand-Texte, T., Simonetto, E., Durand, S., Melon, M., Moulet, M.H.	Estimation of the uncertainties of a method of measuring vibration deformations by 3D vision	image processing, photogrammetry, ultra-fast camera, vibrations	16, 1-4, 71-95	https://doi.org/10.3166/i2m.16.1-4.71-95	Durand-Texte, T., Simonetto, E., Durand, S., Melon, M., Moulet, M.H. (2017). Estimation of the uncertainties of a method of measuring vibration deformations by 3D vision. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 71-95. https://doi.org/10.3166/i2m.16.1-4.71-95
316	Guyard, R., Leduc, D., Lecieux, Y., Lupi, C., Potet, J., Beaucé, J., Douay, M., Lablonde, L.	Response of fiber Bragg gratings with curvature	bending, fiber bragg gratings	16, 1-4, 97-114	https://doi.org/10.3166/i2m.16.1-4.97-114	Guyard, R., Leduc, D., Lecieux, Y., Lupi, C., Potet, J., Beaucé, J., Douay, M., Lablonde, L. (2017). Response of fiber Bragg gratings with curvature. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 97-114. https://doi.org/10.3166/i2m.16.1-4.97-114
317	Gauthier, T., Weidner, S., Martinez, B.	Pressure measurements using pressure sensitive paint in supersonic flow	base, des, expansion, experimental, fins, numerical simulation, paint, pressure, pressure sensitive paint, recirculation, spin, supersonic flow, wake, wind-tunnel	16, 1-4, 115-141	https://doi.org/10.3166/i2m.16.1-4.115-141	Gauthier, T., Weidner, S., Martinez, B. (2017). Pressure measurements using pressure sensitive paint in supersonic flow. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 115-141. https://doi.org/10.3166/i2m.16.1-4.115-141
318	Piombini, H., Boscher, C., Barre, A.-L., Avicé, J.	Identification of crazing in sol-gel thin layers	diffusion measurement, image analysis, microscopy, sol-gel, thin films	16, 1-4, 143-164	https://doi.org/10.3166/i2m.16.1-4.143-164	Piombini, H., Boscher, C., Barre, A.-L., Avicé, J. (2017). Identification of crazing in sol-gel thin layers. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 143-164. https://doi.org/10.3166/i2m.16.1-4.143-164
319	Boscher, C., Avicé, J., Belleville, P., Piombini, H., Vallé, K.	Study of the Sol-gel thin-film ammonia curing process	ammonia, antireflective, curing, silica, SOL-GEL	16, 1-4, 165-174	https://doi.org/10.3166/i2m.16.1-4.165-174	Boscher, C., Avicé, J., Belleville, P., Piombini, H., Vallé, K. (2017). Study of the Sol-gel thin-film ammonia curing process. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 165-174. https://doi.org/10.3166/i2m.16.1-4.165-174
320	Avicé, J., Vaudel, G., Boscher, C., Belleville, P., Gusev, V., Brotons, G., Piombini, H., Ruello, P.	Probing elastic properties of nanostructured materials by picosecond acoustics	antireflective, hardening, non destructive testing, picosecond acoustics	16, 1-4, 175-182	https://doi.org/10.3166/i2m.16.1-4.175-182	Avicé, J., Vaudel, G., Boscher, C., Belleville, P., Gusev, V., Brotons, G., Piombini, H., Ruello, P. (2017). Probing elastic properties of nanostructured materials by picosecond acoustics. <i>Instrumentation Mesure Métrologie</i> , Vol. 16, No. 1-4, pp. 175-182. https://doi.org/10.3166/i2m.16.1-4.175-182

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322	Sorrente, B., Michau, V., Fleury, B., Conan, J.M., Sauvage, J.F.	Measurement of the index field with a pyramidal sensor	aero-optic effects, pyramidal sensor, wavefront sensor	16, 1-4, 213-228	https://doi.org/10.3166/i2m.16.1-4.213-228	Sorrente, B., Michau, V., Fleury, B., Conan, J.M., Sauvage, J.F. (2017). Measurement of the index field with a pyramidal sensor. Instrumentation Mesure Métrologie, Vol. 16, No. 1-4, pp. 213-228. https://doi.org/10.3166/i2m.16.1-4.213-228
323	Fdida, N., Mauriot, Y., Vingert, L., Nugue, M.	A drop-sizing method by imaging of a two-phase cryogenic flow	cryogenic flows, drop-sizing, shadowgraphy, two phase flows, velocimetry	16, 1-4, 229-253	https://doi.org/10.3166/i2m.16.1-4.229-253	Fdida, N., Mauriot, Y., Vingert, L., Nugue, M. (2017). A drop-sizing method by imaging of a two-phase cryogenic flow. Instrumentation Mesure Métrologie, Vol. 16, No. 1-4, pp. 229-253. https://doi.org/10.3166/i2m.16.1-4.229-253
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325	Jovancevic, I., Pham, H.H., Orteu, J.J., Gilblas, R., Harvent, J., Maurice, X., Brèthes, L.	Detection and characterization of surface defects based on the analysis of 3D point clouds provided by a scanner	inspection surface defects 3D point clouds 3D scanner	16, 1-4, 261-282	https://doi.org/10.3166/i2m.16.1-4.261-282	Jovancevic, I., Pham, H.H., Orteu, J.J., Gilblas, R., Harvent, J., Maurice, X., Brèthes, L. (2017). Detection and characterization of surface defects based on the analysis of 3D point clouds provided by a scanner. Instrumentation Mesure Métrologie, Vol. 16, No. 1-4, pp. 261-282. https://doi.org/10.3166/i2m.16.1-4.261-282