No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	A. El Halim, A.A.E.B., Bayoumi, E.H.E.	Using a New Combination of P&O and ICM Methods for the Experimental Validation of MPPT Efficacy	maximum power point tracking (MPPT), perturb and observe (P&O), incremental conductance method (ICM)	54, 6, 797-804	https://doi.org/10.18280/jesa.540601	A. El Halim, A.A.E.B., Bayoumi, E.H.E. (2021). Using a new combination of P&O and ICM methods for the experimental validation of MPPT efficacy. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 797-804. https://doi.org/10.18280/jesa.540601
2	Loukriz, A., Saigaa, D., Drif, M., Hadjab, M., Houari, A., Messalti, S., Saeed, M.A.	A New Simplified Algorithm for Real-Time Power Optimization of TCT Interconnected PV Array under Any Mismatch Conditions	current mismatch, PV array reconfiguration, parallel resistance, PV module aging. simplified algorithm, Serie resistance, temperature variation, voltage mismatch	54, 6, 805-817	https://doi.org/10.18280/jesa.540602	Loukriz, A., Saigaa, D., Drif, M., Hadjab, M., Houari, A., Messalti, S., Saeed, M.A. (2021). A new simplified algorithm for real-time power optimization of TCT interconnected PV array under any mismatch conditions. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 805-817. https://doi.org/10.18280/jesa.540602
3	Suratno, Ichtiarto, B.P.	Reduce Carbon Emissions of Logistic Transportation Using Eight Steps Approach in Indonesian Automotive Industry	automotive industry, carbon emissions, eight step approach, focus group discussion, local delivery	54, 6, 819-826	https://doi.org/10.18280/jesa.540603	Suratno, Ichtiarto, B.P. (2021). Reduce carbon emissions of logistic transportation using eight steps approach in Indonesian automotive industry. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 819-826. https://doi.org/10.18280/jesa.540603
4	Abboudi, A., Belmajdoub, F.	Dynamic Thresholds for a Reliable Diagnosis of Switched Systems	diagnosis, switched systems, bond graphs, hybrid observers, dynamic thresholds	54, 6, 827-833	https://doi.org/10.18280/jesa.540604	Abboudi, A., Belmajdoub, F. (2021). Dynamic thresholds for a reliable diagnosis of switched systems. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 827-833. https://doi.org/10.18280/jesa.540604
5	Bounouara, N., Ghanai, M., Chafaa, K.	Metaheuristic Optimization of PD and PID Controllers for Robotic Manipulators	Particle Swarm Optimization (PSO), PD controller, PID controller, robotic manipulators	54, 6, 835-845	https://doi.org/10.18280/jesa.540605	Bounouara, N., Ghanai, M., Chafaa, K. (2021). Metaheuristic optimization of PD and PID controllers for robotic manipulators. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 835-845. https://doi.org/10.18280/jesa.540605
6	Kumar, A.S., Reddy, V.U.	Performance Evaluation of PV Panel Configurations Considering PSC's for PV Standalone Applications	SP, TCT, TT, BL, PV, PSC	54, 6, 847-852	https://doi.org/10.18280/jesa.540606	Kumar, A.S., Reddy, V.U. (2021). Performance evaluation of PV panel configurations considering PSC's for PV standalone applications. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 847-852. https://doi.org/10.18280/jesa.540606
7	Omar, A., Mohamed, F., Mohammed, M., Fouad, B.	Discrete Event Systems Fault's Diagnosis and Prognosis Using Feed-Forward Neural Networks	industrial systems, monitoring tools, discrete event systems, faults diagnosis, faults prognosis, feed-forward neural networks	54, 6, 853-863	https://doi.org/10.18280/jesa.540607	Omar, A., Mohamed, F., Mohammed, M., Fouad, B. (2021). Discrete event systems fault's diagnosis and prognosis using feed-forward neural networks. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 853-863. https://doi.org/10.18280/jesa.540607
8	Bharadwaj, D., Dutt, D.	Design and Development of Low-Level Automation for the Picking and Placing of the Object Using Pneumatic Suction	pneumatic actuator, pneumatic suction, gripper, relay	54, 6, 865-870	https://doi.org/10.18280/jesa.540608	Bharadwaj, D., Dutt, D. (2021). Design and development of low-level automation for the picking and placing of the object using pneumatic suction. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 865-870. https://doi.org/10.18280/jesa.540608
9	Omeiri, H., Innal, F., Liu, Y.L.	Consistency Checking of the IEC 61508 PFH Formulas and New Formulas Proposal Based on the Markovian Approach	SIS, IEC 61508, PFH, KooN configurations, Markov models	54, 6, 871-879	https://doi.org/10.18280/jesa.540609	Omeiri, H., Innal, F., Liu, Y.L. (2021). Consistency checking of the IEC 61508 PFH formulas and new formulas proposal based on the Markovian approach. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 871-879. https://doi.org/10.18280/jesa.540609
10	Elbachir, K.M., Ahmed, A.	Artificial Neural Networks Direct Torque Control of Single Inverter Feed Two Induction Motors	artificial neural networks, DTC, induction motor, master slave control, NPC single inverter	54, 6, 881-889	https://doi.org/10.18280/jesa.540610	Elbachir, K.M., Ahmed, A. (2021). Artificial neural networks direct torque control of single inverter feed two induction motors. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 881-889. https://doi.org/10.18280/jesa.540610
11	Abdullah, F.S., Hamoodi, A.N., Mohammed, R.A.	Performance Improvement in Steam Turbine in Thermal Power Plants Using Artificial Neural Network	steam turbine governor, performance, PID controller, ANN controller, MATLAB modeling	54, 6, 891-895	https://doi.org/10.18280/jesa.540611	Abdullah, F.S., Hamoodi, A.N., Mohammed, R.A. (2021). Performance improvement in steam turbine in thermal power plants using artificial neural network. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 891-895. https://doi.org/10.18280/jesa.540611
12	Omar, F., El Mrabet, A.H., Belkraouane, I, Djeriri, Y.	Sliding Mode Control for a DC Motor System with Dead-Zone	sliding mode control, DC motor, nonlinear, dead zone, Coulomb friction	54, 6, 897-902	https://doi.org/10.18280/jesa.540612	Omar, F., El Mrabet, A.H., Belkraouane, I, Djeriri, Y. (2021). Sliding mode control for a DC motor system with dead-zone. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 897-902. https://doi.org/10.18280/jesa.540612
13	Debbagh, A.B., Bendjebbar, M., Benslimane, M., Zerikat, M., Allali, A.	Real-Time High Performance of Induction Motor Drive Using Hybrid Fuzzy-Sliding Mode Controllers	Dspace, fuzzy logic control, induction motor, real-time implementation, robustness, sliding mode control, supervisor	54, 6, 903-908	https://doi.org/10.18280/jesa.540613	Debbagh, A.B., Bendjebbar, M., Benslimane, M., Zerikat, M., Allali, A. (2021). Real-time high performance of induction motor drive using hybrid fuzzy-sliding mode controllers. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 903-908. https://doi.org/10.18280/jesa.540613
14	Ismail, B., El Enin, M.A., Osama, M., Abdelhaleem, M., Geris, M., Kamel, M., Kassem, S., Fahim, I.S.	A Heterogeneous Vehicle Routing Problem with Soft Time Windows for 3PL Company's Deliveries: A Case Study	heterogeneous vehicle routing problem, soft time windows, mixed integer programing, case study	54, 6, 909-914	https://doi.org/10.18280/jesa.540614	Ismail, B., El Enin, M.A., Osama, M., Abdelhaleem, M., Geris, M., Kamel, M., Kassem, S., Fahim, I.S. (2021). A heterogeneous vehicle routing problem with soft time windows for 3PL company's deliveries: A case study. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 909-914. https://doi.org/10.18280/jesa.540614
15	Noureddine, S., Morsli, S., Tayeb, A., Mouloud, D.	Optimal Fractional-Order PI Control Design for a Variable Speed PMSG-Based Wind Turbine	wind turbine, MPPT, fractional order PI controller, PSO, GA	54, 6, 915-922	https://doi.org/10.18280/jesa.540615	Noureddine, S., Morsli, S., Tayeb, A., Mouloud, D. (2021). Optimal fractional-order pi control design for a variable speed PMSG-based wind turbine. Journal Européen des Systèmes Automatisés, Vol. 54, No. 6, pp. 915-922. https://doi.org/10.18280/jesa.540615
16	Aissaoui, A., Khouidmi, H., Benzouaoui, A., Bessedik, B.	Nonlinear Predictive Control Method for Maximizing Wind Energy Extraction of Variable Speed Wind Turbines under Turbulence	variable-speed wind turbines, wind energy extraction, nonlinear optimization, predictive control	54, 5, 661-670	https://doi.org/10.18280/jesa.540501	Aissaoui, A., Khouidmi, H., Benzouaoui, A., Bessedik, B. (2021). Nonlinear predictive control method for maximizing wind energy extraction of variable speed wind turbines under turbulence. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 661-670. https://doi.org/10.18280/jesa.540501
17	Prasad, R.R., Durgasukuamar, G.	Performance Analysis of PI, T1NFC, and T2NFC of Indirect Vector Control-Based Induction Motor Using DSpace-2812	PI controller, IVC, induction motor drive (IMD), T2NFC, T1NFC, FOU, MFs	54, 5, 671-682	https://doi.org/10.18280/jesa.540502	Prasad, R.R., Durgasukuamar, G. (2021). Performance analysis of PI, T1NFC, and T2NFC of indirect vector control-based induction motor using DSpace-2812. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 671-682. https://doi.org/10.18280/jesa.540502

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18	Abboudi, A., Belmajdoub, F.	Hybrid Diagnosis Method Applied to Switched Mechatronic Systems	diagnosis, mechatronic systems, switched systems, hybrid observer, bond graph, hybrid automaton	54, 5, 683-691	https://doi.org/10.18280/jesa.540503	Abboudi, A., Belmajdoub, F. (2021). Hybrid diagnosis method applied to switched mechatronic systems. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 683-691. https://doi.org/10.18280/jesa.540503
19	Hanif, M.I.F.M., Ahmad, M.A., Jui, J.J.	PID Tuning Method Using Chaotic Safe Experimentation Dynamics Algorithm for Elastic Joint Manipulator	vibration reduction, flexible mechanism, PID controller, self-tuned control, data-based method	54, 5, 693-698	https://doi.org/10.18280/jesa.540504	Hanif, M.I.F.M., Ahmad, M.A., Jui, J.J. (2021). PID tuning method using chaotic safe experimentation dynamics algorithm for elastic joint manipulator. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 693-698. https://doi.org/10.18280/jesa.540504
20	Akoue, H.J., Eloundou, P.N., Essiane, S.N., Ele, P., Nneme, L.N., Diboma, B.S., Mayi, O.T.S.	A Novel Hybrid Algorithm of Max-Min Ant System with Quadratic Programming to Solve the Unit Commitment Problem	heuristic algorithms, hybrid algorithm, MAX-MIN ant system, metaheuristic, quadratic programming, unit commitment	54, 5, 699-712	https://doi.org/10.18280/jesa.540505	Akoue, H.J., Eloundou, P.N., Essiane, S.N., Ele, P., Nneme, L.N., Diboma, B.S., Mayi, O.T.S. (2021). A novel hybrid algorithm of max-min ant system with quadratic programming to solve the unit commitment problem. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 699-712. https://doi.org/10.18280/jesa.540505
21	Raj, S., Mandal, R.K., De, M.	A Single-Stage Three Phase CT-Type MLI for Grid Integration and for Supplying Critical Loads	critical loads, grid integration, CT-Type MLI, TSV, THD	54, 5, 713-720	https://doi.org/10.18280/jesa.540506	Raj, S., Mandal, R.K., De, M. (2021). A single-stage three phase CT-Type MLI for grid integration and for supplying critical loads. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 713-720. https://doi.org/10.18280/jesa.540506
22	Febriana, T.H., Hasbullah, H.	Analysis and Defect Improvement Using FTA, FMEA, and MLR Through DMAIC Phase: Case Study in Mixing Process Tire Manufacturing Industry	tire manufacture, DMAIC, MLR, FMEA, FTA, capability process, Indonesia	54, 5, 721-731	https://doi.org/10.18280/jesa.540507	Febriana, T.H., Hasbullah, H. (2021). Analysis and defect improvement using FTA, FMEA, and MLR through DMAIC phase: Case study in mixing process tire manufacturing industry. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 721-731. https://doi.org/10.18280/jesa.540507
23	Boukhalfa, A., Khettab, K., Essounbouli, N.	Novel Hybrid Interval Type-2 Fuzzy Adaptive Backstepping Control for a Class of Uncertain Discrete-Time Nonlinear Systems	interval type 2 fuzzy control, backstepping adaptive control, discrete-time nonlinear system, universal approximator, weighted least squares estimators	54, 5, 733-741	https://doi.org/10.18280/jesa.540508	Boukhalfa, A., Khettab, K., Essounbouli, N. (2021). Novel hybrid interval type-2 fuzzy adaptive backstepping control for a class of uncertain discrete-time nonlinear systems. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 733-741. https://doi.org/10.18280/jesa.540508
24	Eddine, A.T., Ameur, A., Atallah, B.	RNA Identification Technique and RST Control of a Hybrid Indirect Matrix Converter with a Flying Capacitor Three Level Inverter in Power Active Filtering Application	active power filtering, artificial neuronal network, flying capacitor inverter, indirect matrix converter, RST controller	54, 5, 743-749	https://doi.org/10.18280/jesa.540509	Eddine, A.T., Ameur, A., Atallah, B. (2021). RNA identification technique and RST control of a hybrid indirect matrix converter with a flying capacitor three level inverter in power active filtering application. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 743-749. https://doi.org/10.18280/jesa.540509
25	Lalith, M.S., Sridhar, P., Gatla, R.K., Kumar, A.S.	Evaluation of Surge Voltages on the Overhead Lines due to Direct and Indirect Lightning Impulse	surge magnitude, radial basis function, finite difference time domain	54, 5, 751-762	https://doi.org/10.18280/jesa.540510	Lalith, M.S., Sridhar, P., Gatla, R.K., Kumar, A.S. (2021). Evaluation of surge voltages on the overhead lines due to direct and indirect lightning impulse. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 751-762. https://doi.org/10.18280/jesa.540510
26	Amrane, S., Zahidi, A., Abouricha, M., Azami, N., Nasser, N., Errai, M.	Machine Learning for Monitoring of the Solenoid Valves Coil Resistance Based on Optical Fiber Squeezer	machine learning, monitoring, solenoid valve, coil resistance, fiber squeezer	54, 5, 763-767	https://doi.org/10.18280/jesa.540511	Amrane, S., Zahidi, A., Abouricha, M., Azami, N., Nasser, N., Errai, M. (2021). Machine learning for monitoring of the solenoid valves coil resistance based on optical fiber squeezer. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 763-767. https://doi.org/10.18280/jesa.540511
27	Benamrane, K., Abdelkrim, T., Benlahbib, B., Bouarroudj, N., Borni, A., Lakhdari, A., Bahri, A.	New Optimized Control of Cascaded Multilevel Converters for Grid Tied Photovoltaic Power Generation	PSO, grid connected, three-level converter, photovoltaic generator, FLC	54, 5, 769-776	https://doi.org/10.18280/jesa.540512	Benamrane, K., Abdelkrim, T., Benlahbib, B., Bouarroudj, N., Borni, A., Lakhdari, A., Bahri, A. (2021). New optimized control of cascaded multilevel converters for grid tied photovoltaic power generation. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 769-776. https://doi.org/10.18280/jesa.540512
28	Leddine, S.D., Chamceddine, R., Ramdane, Z.	Faults Detection and Classification under Variable Condition Using Intrinsic Time - Scale Decomposition and Neural Network	classification, intrinsic time - scale decomposition (ITD), misalignment, (RMS), unbalance	54, 5, 777-782	https://doi.org/10.18280/jesa.540513	Leddine, S.D., Chamceddine, R., Ramdane, Z. (2021). Faults detection and classification under variable condition using intrinsic time - scale decomposition and neural network. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 777-782. https://doi.org/10.18280/jesa.540513
29	Anagie, G.A., Hassen, A.A., Sintie, Y.T.	Performance Investigation of Small Wind Turbine Installed over a Pick up Vehicle to Charge an Electric Vehicle Battery	attack angle, battery, regulator, vehicle mounted wind turbine, and small wind turbine	54, 5, 783-788	https://doi.org/10.18280/jesa.540514	Anagie, G.A., Hassen, A.A., Sintie, Y.T. (2021). Performance investigation of small wind turbine installed over a pick up vehicle to charge an electric vehicle battery. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 783-788. https://doi.org/10.18280/jesa.540514
30	Haddadji, Y., Harmas, M.N., Bouafia, A., Bouchama, Z.	Adaptive Terminal Synergetic Synchronization of Hyperchaotic Systems	hyperchaotic Zhou system, terminal synergetic, synchronization, Lyapunov	54, 5, 789-795	https://doi.org/10.18280/jesa.540515	Haddadji, Y., Harmas, M.N., Bouafia, A., Bouchama, Z. (2021). Adaptive terminal synergetic synchronization of hyperchaotic systems. Journal Européen des Systèmes Automatisés, Vol. 54, No. 5, pp. 789-795. https://doi.org/10.18280/jesa.540515
31	Djellad, A., Belakehal, S., Chenni, R., Dekhane, A.	Reliability Improvement in Serial Multicellular Converters Based on STATCOM Control	flexible AC transmission system (FACTS), STATCOM, multilevel converter, serial multicellular converters, mathematical modeling, control, PS-PWM	54, 4, 519-528	https://doi.org/10.18280/jesa.540401	Djellad, A., Belakehal, S., Chenni, R., Dekhane, A. (2021). Reliability improvement in serial multicellular converters based on STATCOM control. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 519-528. https://doi.org/10.18280/jesa.540401
32	Fahmani, L., Benhadou, S., Medromi, H.	Mathematical Model and Attitude Estimation Using Extended Colored Kalman Filter for Transmission Lines Inspection's Unmanned Aerial Vehicle	electromagnetic interferences, extended Kalman filter, quaternions, transmission lines inspection, unmanned aerial vehicle	54, 4, 529-537	https://doi.org/10.18280/jesa.540402	Fahmani, L., Benhadou, S., Medromi, H. (2021). Mathematical model and attitude estimation using extended colored kalman filter for transmission lines inspection's unmanned aerial vehicle. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 529-537. https://doi.org/10.18280/jesa.540402
33	Dube, L., Bayoumi, E.H.E.	DRNN Robust DTC for Induction Motor Drive Systems Using FSTPI	induction motor (IM), direct torque control (DTC), stator resistance (Rs), moment of inertia (J), diagonal recurrent neural network (DRNN)	54, 4, 539-547	https://doi.org/10.18280/jesa.540403	Dube, L., Bayoumi, E.H.E. (2021). DRNN robust DTC for induction motor drive systems using FSTPI. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 539-547. https://doi.org/10.18280/jesa.540403
34	Benbaha, N., Zidani, F., Bouchakour, A., Boukebbous, S.E., Nait-Said, M.S., Ammar, H., Bouhoun, S.	Optimal Configuration Investigation for Photovoltaic Water Pumping System, Case Study: In a Desert Environment at Ghardaia, Algeria	water pumping system, photovoltaic array configurations, experimental evaluations, desert environment, efficiency, centrifugal pump	54, 4, 549-558	https://doi.org/10.18280/jesa.540404	Benbaha, N., Zidani, F., Bouchakour, A., Boukebbous, S.E., Nait-Said, M.S., Ammar, H., Bouhoun, S. (2021). Optimal configuration investigation for photovoltaic water pumping system, case study: In a desert environment at Ghardaia, Algeria. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 549-558. https://doi.org/10.18280/jesa.540404

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35	Allaoui, S., Laamari, Y., Chafaa, L., Saad, S.	Position and Speed Estimation of PMSM Based on Extended Kalman Filter Tuned by Biogeography-Based-Optimization	biogeography based optimization, extended Kalman filter, permanent magnet synchronous motors, sensorless control, state estimation	54, 4, 559-568	https://doi.org/10.18280/jesa.540405	Allaoui, S., Laamari, Y., Chafaa, L., Saad, S. (2021). Position and speed estimation of PMSM based on extended Kalman filter tuned by biogeography-based-optimization. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 559-568. https://doi.org/10.18280/jesa.540405
36	Majid, A.	Lifetime Extension of Three-Dimensional Wireless Sensor Networks, Based on Gaussian Coverage Probability	power coverage, Gaussian, joint probability, sensor lifetime, wireless network networks	54, 4, 569-574	https://doi.org/10.18280/jesa.540406	Majid, A. (2021). Lifetime extension of three-dimensional wireless sensor networks, based on gaussian coverage probability. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 569-574. https://doi.org/10.18280/jesa.540406
37	El Idrissi, A.E.J., Beniysa, M., Bouajaj, A., Britel, M.R.	Intelligent Control of Uncertain PMSM Based on Stable and Adaptive Discrete-Time Neural Network Compensators	uncertain PMSM, adaptive neural network, compensator, parameter uncertainties, Lyapunov stability	54, 4, 575-589	https://doi.org/10.18280/jesa.540407	El Idrissi, A.E.J., Beniysa, M., Bouajaj, A., Britel, M.R. (2021). Intelligent control of uncertain PMSM based on stable and adaptive discrete-time neural network compensators. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 575-589. https://doi.org/10.18280/jesa.540407
38	Bedhief, A.O.	Comparing Mixed-Integer Programming and Constraint Programming Models for the Hybrid Flow Shop Scheduling Problem with Dedicated Machines	hybrid flow shop scheduling, dedicated machines, mixed-integer programming, constraint programming, Cplex, CP optimizer	54, 4, 591-597	https://doi.org/10.18280/jesa.540408	Bedhief, A.O. (2021). Comparing mixed-integer programming and constraint programming models for the hybrid flow shop scheduling problem with dedicated machines. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 591-597. https://doi.org/10.18280/jesa.540408
39	Ramineni, P., Pandian, A.	Study and Investigation of Energy Management Techniques Used in Electric/Hybrid Electric Vehicles	energy management system (ESS), electric vehicles, multiple energy source, controllers, battery/fuel cell, ultracapacitor	54, 4, 599-606	https://doi.org/10.18280/jesa.540409	Ramineni, P., Pandian, A. (2021). Study and investigation of energy management techniques used in electric/hybrid electric vehicles. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 599-606. https://doi.org/10.18280/jesa.540409
40	Bahri, A., Thameur, A., Mordjaoui, M., Bechouat, M., Sedraoui, M.	An Optimal Tilt Integral Derivative Applied to the Regulation of DC Link Voltage in a Stand-Alone Hybrid Energy System	battery bank, buck-boost converter, DC link voltage, genetic algorithm, photovoltaic system, Proportional-Integral-Derivative (PID), Tilt-Integral-Derivative (TID)	54, 4, 607-616	https://doi.org/10.18280/jesa.540410	Bahri, A., Thameur, A., Mordjaoui, M., Bechouat, M., Sedraoui, M. (2021). An optimal tilt integral derivative applied to the regulation of DC link voltage in a stand-alone hybrid energy system. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 607-616. https://doi.org/10.18280/jesa.540410
41	Kumar, A., Sadhu, P.K., Singh, J.	Implementation and Comparative Analysis of Time Equivalent Space Vector PWM Method for 3 Phase to 3 Phase Matrix Converter	matrix converter, carrier-based PWM, space vector PWM, time equivalent space vector PWM	54, 4, 617-622	https://doi.org/10.18280/jesa.540411	Kumar, A., Sadhu, P.K., Singh, J. (2021). Implementation and comparative analysis of time equivalent space vector PWM method for 3 phase to 3 phase matrix converter. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 617-622. https://doi.org/10.18280/jesa.540411
42	Abdesselam, B., Cherif, B., Othmane, B.	Solve Coupled Axes Problem Without FOANR Based on Substitution Method to Control DFIG Used in Wind Application	wind application (WA), doubly fed induction generator (DFIG), nonlinear model, flux orientation and neglecting resistance (FOANR), proportional-integral (PI)	54, 4, 623-631	https://doi.org/10.18280/jesa.540412	Abdesselam, B., Cherif, B., Othmane, B. (2021). Solve coupled axes problem without FOANR based on substitution method to control DFIG used in wind application. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 623-631. https://doi.org/10.18280/jesa.540412
43	Wakkumbura, R.T., Hettige, B., Edirisuriya, A.	Real-Time Traffic Controlling System Using Multi-Agent Technology	traffic congestion, multi-agent systems, dynamic environment, agents, junction	54, 4, 633-640	https://doi.org/10.18280/jesa.540413	Wakkumbura, R.T., Hettige, B., Edirisuriya, A. (2021). Real-time traffic controlling system using multi-agent technology. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 633-640. https://doi.org/10.18280/jesa.540413
44	Gupta, M.K., Kumar, R., Verma, V., Sharma, A.	Robust Control Based Stability Analysis and Trajectory Tracking of Triple Link Robot Manipulator	triple link manipulator, Euler Lagrange, robust control, Lyapunov analysis	54, 4, 641-647	https://doi.org/10.18280/jesa.540414	Gupta, M.K., Kumar, R., Verma, V., Sharma, A. (2021). Robust control based stability analysis and trajectory tracking of triple link robot manipulator. Journal Européen des Systèmes Automatisés, Vol. 54, No. 4, pp. 641-647. https://doi.org/10.18280/jesa.540414
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46	Benzian, S., Ameur, A., Rebai, A.	Design an Optimal Fractional Order PID Controller Based on New Algorithms and a Fuzzy Logic Controller to Regulate Type 1 Diabetes Patients	Bergman minimal model, FOPID controller, fuzzy logic controller, fractional calculus, PSO, IWO, BA ACO and GA	54, 3, 381-394	https://doi.org/10.18280/jesa.540301	Benzian, S., Ameur, A., Rebai, A. (2021). Design an optimal fractional order PID controller based on new algorithms and a fuzzy logic controller to regulate type 1 diabetes patients. Journal Européen des Systèmes Automatisés, Vol. 54, No. 3, pp. 381-394. https://doi.org/10.18280/jesa.540301
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49	Kadkhodaei, A., Ghasemi, R.H.	Representation of New Variable Thrust Vector Underwater Robotic Platform for Complex Trajectory Tracking	autonomous underwater vehicle, thruster, variable thrust vector	54, 3, 411-421	https://doi.org/10.18280/jesa.540304	Kadkhodaei, A., Ghasemi, R.H. (2021). Representation of new variable thrust vector underwater robotic platform for complex trajectory tracking. Journal Européen des Systèmes Automatisés, Vol. 54, No. 3, pp. 411-421. https://doi.org/10.18280/jesa.540304
50	Zeggai, A., Benhamida, F., Bouddou, R.	Power System Analysis of Seawater Desalination Plant in Algeria with Different Load Scenarios	load flow analysis, real industrial plant, short circuit analysis, different load scenario, ETAP (electrical transient analyzer program)	54, 3, 423-434	https://doi.org/10.18280/jesa.540305	Zeggai, A., Benhamida, F., Bouddou, R. (2021). Power system analysis of seawater desalination plant in Algeria with different load scenarios. Journal Européen des Systèmes Automatisés, Vol. 54, No. 3, pp. 423-434. https://doi.org/10.18280/jesa.540305
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53	Huu, P.N., Duc, H.N.	Propose an Automatic Ammonia Concentration of Water Measuring System Combining Image Processing for Aquaculture	NH3 concentration, automation, image processing, environmental monitoring, mechanics	54, 3, 453-460	https://doi.org/10.18280/jesa.540308	Huu, P.N., Duc, H.N. (2021). Propose an automatic ammonia concentration of water measuring system combining image processing for aquaculture. Journal Européen des Systèmes Automatisés, Vol. 54, No. 3, pp. 453-460. https://doi.org/10.18280/jesa.540308.
54	Sekine, T., Kameya, K.	Remarkable Characteristics of a Novel Path Interval Determination in Filleted End Milling	tool path generation, path interval, multi-axis CNC machining, filleted end mill, experimental verification	54, 3, 461-468	https://doi.org/10.18280/jesa.540309	Sekine, T., Kameya, K. (2021). Remarkable characteristics of a novel path interval determination in filleted end milling. Journal Européen des Systèmes Automatisés, Vol. 54, No. 3, pp. 461-468. https://doi.org/10.18280/jesa.540309
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63	Prasad, R.R., Durgasukuamar, G.	Enhanced Performance of Indirect Vector Controlled Induction Motor Drive with a Modified Type 2 Neuro-Fuzzy Torque Controller in Interfacing with dSPACE DS-2812	PI controller, indirect vector control (IVC), induction motor drive (IMD), type 2 Neuro-fuzzy controller (T2NFC), type 1 neuro-fuzzy controller, foot print of uncertainty (FOU), induction motor (IM), member ship functions (MFs)	54, 2, 219-228	https://doi.org/10.18280/jesa.540203	Prasad, R.R., Durgasukuamar, G. (2021). Enhanced performance of indirect vector controlled induction motor drive with a modified type 2 neuro-fuzzy torque controller in interfacing with dSPACE DS-2812. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 219-228. https://doi.org/10.18280/jesa.540203
64	Sri, K.S., Krishna, K.V.S.S.R., Madamanchi, V.B.R., Devi, G.Y.	Advanced System Control with Traffic Handling for Secure Communication in IoT Routing Protocol	traffic handling, secure communication, IoT routing protocol, system control, access control	54, 2, 229-233	https://doi.org/10.18280/jesa.540204	Sri, K.S., Krishna, K.V.S.S.R., Madamanchi, V.B.R., Devi, G.Y. (2021). Advanced system control with traffic handling for secure communication in IoT routing protocol. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 229-233. https://doi.org/10.18280/jesa.540204
65	Abdessemad, O., Nemmour, A.L., Louze, L., Khezzar, A.	Real-Time Implementation of a Novel Vector Control Strategy for a Self-Excited Asynchronous Generator Driven by a Wind Turbine	autonomous induction generator, DC-bus voltage regulation, field-oriented control, poles placement method	54, 2, 235-241	https://doi.org/10.18280/jesa.540205	Abdessemad, O., Nemmour, A.L., Louze, L., Khezzar, A. (2021). Real-time implementation of a novel vector control strategy for a self-excited asynchronous generator driven by a wind turbine. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 235-241. https://doi.org/10.18280/jesa.540205
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67	Herlambang, H., Purba, H.H., Jaqin, C.	Development of Machine Vision to Increase the Level of Automation in Indonesia Electronic Component Industry	machine vision, image processing, automation, level of automation, hierarchy task analysis, human error identification, gage study, Indonesia	54, 2, 253-262	https://doi.org/10.18280/jesa.540207	Herlambang, H., Purba, H.H., Jaqin, C. (2021). Development of machine vision to increase the level of automation in Indonesia electronic component industry. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 253-262. https://doi.org/10.18280/jesa.540207
68	Boussadia, F., Belkhiat, S.	A New Adaptive Underfrequency Load Shedding Scheme to Improve Frequency Stability in Electric Power System	frequency control, load shedding scheme, real time measurement, generation shedding, emergency conditions	54, 2, 263-271	https://doi.org/10.18280/jesa.540208	Boussadia, F., Belkhiat, S. (2021). A new adaptive underfrequency load shedding scheme to improve frequency stability in electric power system. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 263-271. https://doi.org/10.18280/jesa.540208

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69	Tirkeş, G., Çelebi, N., Güray, C.	Developing a Multi-Stage Production Planning and Scheduling Model for a Small-Size Food and Beverage Company	mathematical modeling, optimization in food and beverage production, production scheduling, production planning, MILP, multi-product, multi-period	54, 2, 273-281	https://doi.org/10.18280/jesa.540209	Tirkeş, G., Çelebi, N., Güray, C. (2021). Developing a multi-stage production planning and scheduling model for a small-size food and beverage company. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 273-281. https://doi.org/10.18280/jesa.540209
70	HimaBindu, G., Lakshmeeswari, G., Lalitha, G., Subhashini, P.P.S.	Recognition Using DNN with Bacterial Foraging Optimization Using MFCC Coefficients	bacterial foraging optimization, deep neural network, speech recognition, segmentation, noise removal	54, 2, 283-287	https://doi.org/10.18280/jesa.540210	HimaBindu, G., Lakshmeeswari, G., Lalitha, G., Subhashini, P.P.S. (2021). Recognition using DNN with bacterial foraging optimization using MFCC coefficients. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 283-287. https://doi.org/10.18280/jesa.540210
71	Mostefa, B., Kaddour, R., Mimoun, Y., Embarek, D., Amar, K.	Optimizing the Positions of Discs in Order to Obtain High Stability and Minimum Response in a Multi Disc Rotor	positions of discs, Plackett-Burman, bearings, stability, stiffness, gyroscopic forces, critical rotational speeds	54, 2, 289-301	https://doi.org/10.18280/jesa.540211	Mostefa, B., Kaddour, R., Mimoun, Y., Embarek, D., Amar, K. (2021). Optimizing the positions of discs in order to obtain high stability and minimum response in a multi disc rotor. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 289-301. https://doi.org/10.18280/jesa.540211
72	Khan, A., Thakur, U.N.	A Design of Supplementary Controller for UPFC to Improve Damping of Inter-Area Oscillations	controller, damping, lead lag compensator, oscillation, pulse width modulation, unified power flow controller, UPFC	54, 2, 303-308	https://doi.org/10.18280/jesa.540212	Khan, A., Thakur, U.N. (2021). A design of supplementary controller for UPFC to improve damping of inter-area oscillations. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 303-308. https://doi.org/10.18280/jesa.540212
73	Saeed, M.M., Al Sarraf, Z.S.	Using Artificial Neural Networks to Predict the Effect of Input Parameters on Weld Bead Geometry for SAW Process	ANN, back propagation, welding, input process parameters, bead geometry	54, 2, 309-315	https://doi.org/10.18280/jesa.540213	Saeed, M.M., Al Sarraf, Z.S. (2021). Using artificial neural networks to predict the effect of input parameters on weld bead geometry for SAW process. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 309-315. https://doi.org/10.18280/jesa.540213
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75	Thepperumal, S.K., Margabandu, V., Radhakrishnan, R., Amaladas, J.R., Ananthakrishnan, S.V.	Machinability Investigations on Aerospace Custom 450 Alloy Using TiAlN/TiCN, TiCN/TiAlN Coated and Uncoated Carbide Tools	TiAlN, TiCN, PVD coated tools, uncoated tools, custom 450 alloy	54, 2, 325-334	https://doi.org/10.18280/jesa.540215	Thepperumal, S.K., Margabandu, V., Radhakrishnan, R., Amaladas, J.R., Ananthakrishnan, S.V. (2021). Machinability investigations on aerospace custom 450 alloy using TiAlN/TiCN, TiCN/TiAlN coated and uncoated carbide tools. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 325-334. https://doi.org/10.18280/jesa.540215
76	Benaouda, O.F., Babes, B., Bouchakour, M., Kahla, S., Bendiabdellah, A.	Arc Welding Current Control Using Thyristor Based Three-Phase Rectifiers Applied to Gas Metal Arc Welding Connected to Grid Network	gas metal arc welding, three-phase rectifier, grid network, SSAS method, welding current, welding voltage, droplet diameter, detachment frequency	54, 2, 335-344	https://doi.org/10.18280/jesa.540216	Benaouda, O.F., Babes, B., Bouchakour, M., Kahla, S., Bendiabdellah, A. (2021). Arc welding current control using thyristor based three-phase rectifiers applied to gas metal arc welding connected to grid network. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 335-344. https://doi.org/10.18280/jesa.540216
77	Mehedi, F., Benbouhenni, H., Nezli, L., Boudana, D.	Feedforward Neural Network-DTC of Multi-phase Permanent Magnet Synchronous Motor Using Five-Phase Neural Space Vector Pulse Width Modulation Strategy	DTC, FP-PMSM, SVPWM, FNNs, PI, THD	54, 2, 345-354	https://doi.org/10.18280/jesa.540217	Mehedi, F., Benbouhenni, H., Nezli, L., Boudana, D. (2021). Feedforward neural network-DTC of multi-phase permanent magnet synchronous motor using five-phase neural space vector pulse width modulation strategy. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 345-354. https://doi.org/10.18280/jesa.540217
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79	Harchouche, Z.E.A., Lousdad, A., Zemri, M., Dellal, N., Khelil, F.	Modeling and Simulation Based Analysis of the Matter Flow During Friction Stir Welding Process	Friction Stir Welding (FSW), analytical model, matter, flow, Laurent series, tool pin	54, 2, 363-369	https://doi.org/10.18280/jesa.540219	Harchouche, Z.E.A., Lousdad, A., Zemri, M., Dellal, N., Khelil, F. (2021). Modeling and simulation based analysis of the matter flow during friction stir welding process. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 363-369. https://doi.org/10.18280/jesa.540219
80	Gupta, S.K., Khan, M.A., Singh, O., Chauhan, D.K.	Pulse Width Modulation Technique for Multilevel Operation of Five-Phase Dual Voltage Source Inverters	five-phase voltage source inverter, multilevel inverters, space vector pulse width modulation, total harmonic distortion	54, 2, 371-379	https://doi.org/10.18280/jesa.540220	Gupta, S.K., Khan, M.A., Singh, O., Chauhan, D.K. (2021). Pulse width modulation technique for multilevel operation of five-phase dual voltage source inverters. Journal Européen des Systèmes Automatisés, Vol. 54, No. 2, pp. 371-379. https://doi.org/10.18280/jesa.540220
81	Boudali, A., Negadi, K., Bouradi, S., Berkani, A., Marignetti, F.	Design of Nonlinear Backstepping Control Strategy of PMSG for Hydropower Plant Power Generation	PMSG, optimization, electrical grid, DC-DC boost converter	54, 1, 1-8	https://doi.org/10.18280/jesa.540101	Boudali, A., Negadi, K., Bouradi, S., Berkani, A., Marignetti, F. (2021). Design of nonlinear backstepping control strategy of PMSG for hydropower plant power generation. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 1-8. https://doi.org/10.18280/jesa.540101
82	Lorenzini, G., Kamarposhti, M.A., Solyman, A.A.A.	Optimal Operation of Micro-Grids to Reduce Energy Production Costs and Environmental Pollution Using Ant Colony Optimization Algorithm (ACO)	distributed generation, microgrid, resources of energy distribution, ant colony optimization algorithm, renewable energy source, reducing cost, reducing pollution	54, 1, 9-19	https://doi.org/10.18280/jesa.540102	Lorenzini, G., Kamarposhti, M.A., Solyman, A.A.A. (2021). Optimal operation of micro-grids to reduce energy production costs and environmental pollution using ant colony optimization algorithm (ACO). Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 9-19. https://doi.org/10.18280/jesa.540102
83	Smagala, A., Kecik, K.	Nonlinear Dynamics Analysis of a Rolling Bearing	bearing, modelling, vibration, dynamic indicators	54, 1, 21-26	https://doi.org/10.18280/jesa.540103	Smagala, A., Kecik, K. (2021). Nonlinear dynamics analysis of a rolling bearing. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 21-26. https://doi.org/10.18280/jesa.540103
84	Kotla, R.W., Yarlagadda, S.R.	Comparative Analysis of Photovoltaic Generating Systems Using Particle Swarm Optimization and Cuckoo Search Algorithms under Partial Shading Conditions	cuckoo search algorithm, PV generating system, partial shading conditions, particle swarm optimization algorithm	54, 1, 27-33	https://doi.org/10.18280/jesa.540104	Kotla, R.W., Yarlagadda, S.R. (2021). Comparative analysis of photovoltaic generating systems using particle swarm optimization and cuckoo search algorithms under partial shading conditions. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 27-33. https://doi.org/10.18280/jesa.540104
85	Wahdan, H.G., Abdelslam,H.E., Abou-El-Enien, T.H.M., Kassem, S.S.	Discretization of Emperor Penguins Colony Algorithms with Application to Modular Product Design	Design Structure Matrix, Emperor Penguins Colony, Cuckoo Search, modular design, clustering	54, 1, 35-44	https://doi.org/10.18280/jesa.540105	Wahdan, H.G., Abdelslam,H.E., Abou-El-Enien, T.H.M., Kassem, S.S. (2021). Discretization of Emperor Penguins Colony algorithms with application to modular product design. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 35-44. https://doi.org/10.18280/jesa.540105

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86	Chaithanakulwat, A., Thungsuk, N., Savangboon, T., Boontua, S., Sardyoung, P.	Optimized D-Q Vector Control of Single-Phase Grid-Connected Inverter for Photovoltaic System	pulse width modulation, photovoltaic systems, voltage control, reactive power control, prototype mechanism, D-Q spindle, grid system, vector control	54, 1, 45-54	https://doi.org/10.18280/jesa.540106	Chaithanakulwat, A., Thungsuk, N., Savangboon, T., Boontua, S., Sardyoung, P. (2021). Optimized D-Q vector control of single-phase grid-connected inverter for photovoltaic system. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 45-54. https://doi.org/10.18280/jesa.540106
87	Maryani, E., Purba, H.H., Sunadi.	Analysis of Aluminium Alloy Wheels Product Quality Improvement Through DMAIC Method in Casting Process: A Case Study of the Wheel Manufacturing Industry in Indonesia	quality, DMAIC, capability, alloy wheels, improvement, sigma level	54, 1, 55-62	https://doi.org/10.18280/jesa.540107	Maryani, E., Purba, H.H., Sunadi. (2021). Analysis of aluminium alloy wheels product quality improvement through DMAIC method in casting process: A case study of the wheel manufacturing industry in Indonesia. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 55-62. https://doi.org/10.18280/jesa.540107
88	Messaoud, M., Haddi, B.	Optimum Parametric Identification of a Stand-Alone Photovoltaic System with Battery Storage and Optimization Controller Using Averaging Approach	standalone photovoltaic (PV) system, dynamic modeling, averaging approach, linearization, stat of charge (SOC), maximum power point (MPPT), buck converter	54, 1, 63-71	https://doi.org/10.18280/jesa.540108	Messaoud, M., Haddi, B. (2021). Optimum parametric identification of a stand-alone photovoltaic system with battery storage and optimization controller using averaging approach. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 63-71. https://doi.org/10.18280/jesa.540108
89	Devineni, G.K., Ganesh, A., Bhoopal, N.	Power Loss Analysis in 15 Level Asymmetric Reduced Switch Inverter Using PLECS Thermal Model & SIMULINK Precise Models	switching losses, conduction losses, power losses, multilevel inverters, switching frequency	54, 1, 73-84	https://doi.org/10.18280/jesa.540109	Devineni, G.K., Ganesh, A., Bhoopal, N. (2021). Power loss analysis in 15 level asymmetric reduced switch inverter using PLECS thermal model & SIMULINK precise models. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 73-84. https://doi.org/10.18280/jesa.540109
90	Toriki, M.B., Asy'ari, M.K., Musyafa', A.	Enhanced Performance of PMSG in WECS Using MPPT - Fuzzy Sliding Mode Control	wind turbine, fuzzy sliding mode control, boost converter, maximum power point tracking	54, 1, 85-96	https://doi.org/10.18280/jesa.540110	Toriki, M.B., Asy'ari, M.K., Musyafa', A. (2021). Enhanced performance of PMSG in WECS using MPPT – fuzzy sliding mode control. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 85-96. https://doi.org/10.18280/jesa.540110
91	Salins, S.S., Khan, A.A., Riyaz, K., Mahmoud, I, Naeem, S., Sachidananda, K.H.	Fabrication and Working of a Compressed Air Vehicle	compressed air vehicle, pneumatic rotary engine, compressor, sustainable energy	54, 1, 97-103	https://doi.org/10.18280/jesa.540111	Salins, S.S., Khan, A.A., Riyaz, K., Mahmoud, I, Naeem, S., Sachidananda, K.H. (2021). Fabrication and working of a compressed air vehicle. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 97-103. https://doi.org/10.18280/jesa.540111
92	Ghayebloo, A., Ghaleghovand, M., Jalilvand, A.	A Novel Identification Approach for Classic Controller Design Applied on Flyback Converter	controller design, identification approach, least squares method, flyback converter	54, 1, 105-113	https://doi.org/10.18280/jesa.540112	Ghayebloo, A., Ghaleghovand, M., Jalilvand, A. (2021). A novel identification approach for classic controller design applied on flyback converter. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 105-113. https://doi.org/10.18280/jesa.540112
93	Adjati, A., Rekioua, T., Rekioua, D.	Use of the Dual Stator Induction Machine in Photovoltaic - Wind Hybrid Pumping	centrifugal pump, dual stator induction motor (DSIM), dual stator induction generator (DSIG), hybrid pumping system (HPS), photovoltaic generator (GPV), renewable energy, wind turbine	54, 1, 115-124	https://doi.org/10.18280/jesa.540113	Adjati, A., Rekioua, T., Rekioua, D. (2021). Use of the dual stator induction machine in photovoltaic - Wind hybrid pumping. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 115-124. https://doi.org/10.18280/jesa.540113
94	Suryadi, A., Notosudjono, D., Suhendi, D., Rachmat, U.	Application of Indirect Battery Charging Control System in Hybrid Small Power Plant	windmill, solar panel, microcontroller, solar controller, battery	54, 1, 125-130	https://doi.org/10.18280/jesa.540114	Suryadi, A., Notosudjono, D., Suhendi, D., Rachmat, U. (2021). Application of indirect battery charging control system in hybrid small power plant. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 125-130. https://doi.org/10.18280/jesa.540114
95	Ismael, O.Y., Qasim, M., Noaman, M.N.	Equilibrium Optimizer-Based Robust Sliding Mode Control of Magnetic Levitation System	sliding mode control, robust control, equilibrium optimizer, magnetic levitation system	54, 1, 131-138	https://doi.org/10.18280/jesa.540115	Ismael, O.Y., Qasim, M., Noaman, M.N. (2021). Equilibrium optimizer-based robust sliding mode control of magnetic levitation system. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 131-138. https://doi.org/10.18280/jesa.540115
96	Manoharan, B., Sahoo, S.K.	Instantaneous Active and Reactive Power Control Using Direct Power Control Strategy for Multilevel Multistring Inverter Fed Photovoltaic System	photovoltaic systems, maximum power point tracker, digital signal processor, Matlab, reactive power control, power quality	54, 1, 139-146	https://doi.org/10.18280/jesa.540116	Manoharan, B., Sahoo, S.K. (2021). Instantaneous active and reactive power control using direct power control strategy for multilevel multistring inverter fed photovoltaic system. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 139-146. https://doi.org/10.18280/jesa.540116
97	Griche, I., Messalti, S., Saoudi, K.	Instantaneous Power Control Strategy for Voltage Improvement in Power Network Equipped by Wind Generator	power system, wind turbine (WT), instantaneous power control, voltage regulation, sliding mode control (SMC)	54, 1, 147-154	https://doi.org/10.18280/jesa.540117	Griche, I., Messalti, S., Saoudi, K. (2021). Instantaneous power control strategy for voltage improvement in power network equipped by wind generator. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 147-154. https://doi.org/10.18280/jesa.540117
98	Kotapuri, M.R., Samala, R.K.	Distributed Generation Effect on Distribution System	distributed generation, gravitational search analysis, BAT analysis, ant-lion optimization, power loss, optimal location, capacity	54, 1, 155-163	https://doi.org/10.18280/jesa.540118	Kotapuri, M.R., Samala, R.K. (2021). Distributed generation effect on distribution system. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 155-163. https://doi.org/10.18280/jesa.540118
99	Majdoubi, R., Masmoudi, L., Bakhti, M., Jabri, B.	Torque Control Oriented Modeling of a Brushless Direct Current Motor (BLDCM) Based on the Extended Park's Transformation	brushless direct current motor, maximum torque, reduced torque ripples, extended park reference frame, proportional integral controller, fuzzy logic controller	54, 1, 165-174	https://doi.org/10.18280/jesa.540119	Majdoubi, R., Masmoudi, L., Bakhti, M., Jabri, B. (2021). Torque control oriented modeling of a brushless direct current motor (BLDCM) based on the extended park's transformation. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 165-174. https://doi.org/10.18280/jesa.540119
100	Abderrahim, Z., Eddine, H.K., Sabir, M.	A New Improved Variable Step Size MPPT Method for Photovoltaic Systems Using Grey Wolf and Whale Optimization Technique Based PID Controller	fixed / variable step size algorithms, perturbation and observation (P&O), maximum power point tracking MPPT algorithm, optimization methods, grey wolf optimization (GWO), whale optimization algorithm (WOA), overshoot, ripple	54, 1, 175-185	https://doi.org/10.18280/jesa.540120	Abderrahim, Z., Eddine, H.K., Sabir, M. (2021). A new improved variable step size MPPT method for photovoltaic systems using grey wolf and whale optimization technique based PID controller. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 175-185. https://doi.org/10.18280/jesa.540120
101	Yahiaoui, A., Iffouzar, K., Ghedamsi, K., Himour, K.	Dynamic Performance Analysis of VSC-HVDC Based Modular Multilevel Converter under Fault	high voltage direct current, voltage source converter, modular multilevel converter, vector oriented control, AC fault	54, 1, 187-194	https://doi.org/10.18280/jesa.540121	Yahiaoui, A., Iffouzar, K., Ghedamsi, K., Himour, K. (2021). Dynamic performance analysis of VSC-HVDC based modular multilevel converter under fault. Journal Européen des Systèmes Automatisés, Vol. 54, No. 1, pp. 187-194. https://doi.org/10.18280/jesa.540121
102	Chiarello, E., Malagoli, J.A.	Optimal coil design of an electromagnetic actuator using particle swarm optimization	electromagnetic actuator, magnetic bearing, magnetic levitation, finite element method, particle swarm optimization	53, 6, 755-761	https://doi.org/10.18280/jesa.530601	Chiarello, E., Malagoli, J.A. (2020). Optimal coil design of an electromagnetic actuator using particle swarm optimization. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 755-761. https://doi.org/10.18280/jesa.530601

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103	Koussaila, I., Lyes, K., Himour, K., Abdelhakim, D., Azeddine, H., Kaci, G., Fouad, B.M.	Impact of polyphase induction motor on photovoltaic water pumping system	photovoltaic pumping system, multiphase induction machine, fuzzy logic controller, battery storage	53, 6, 763-770	https://doi.org/10.18280/jesa.530602	Koussaila, I., Lyes, K., Himour, K., Abdelhakim, D., Azeddine, H., Kaci, G., Fouad, B.M. (2020). Impact of polyphase induction motor on photovoltaic water pumping system. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 763-770. https://doi.org/10.18280/jesa.530602
104	Gao, Y.H., Lou, W.D., Lu, H.L., Jia, Y.H.	Consensus control of multi-agent robot system with state delay based on fractional-order iterative learning control algorithm	multi-agent robot system, fractional-order iterative learning control (FOILC), state delay, consensus control	53, 6, 771-779	https://doi.org/10.18280/jesa.530603	Gao, Y.H., Lou, W.D., Lu, H.L., Jia, Y.H. (2020). Consensus control of multi-agent robot system with state delay based on fractional-order iterative learning control algorithm. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 771-779. https://doi.org/10.18280/jesa.530603
105	Abdullatif, N., Kassem, S.	Modelling of agent-based vehicle routing problem using unified modelling language	agent-based modelling, UML modelling, VRP	53, 6, 781-789	https://doi.org/10.18280/jesa.530604	Abdullatif, N., Kassem, S. (2020). Modelling of agent-based vehicle routing problem using unified modelling language. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 781-789. https://doi.org/10.18280/jesa.530604
106	Aramesh, S., Ghorbanian, A.	Multi-objective optimization for a complex intersection using design of experiments and simulation	traffic in urban areas, simulation, multi-objective, design of experiments	53, 6, 791-802	https://doi.org/10.18280/jesa.530605	Aramesh, S., Ghorbanian, A. (2020). Multi-objective optimization for a complex intersection using design of experiments and simulation. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 791-802. https://doi.org/10.18280/jesa.530605
107	Li, K., Li, D., Wu, D.Q.	Multi-objective optimization for location-routing-inventory problem in cold chain logistics network with soft time window constraint	cold chain logistics network (CCLN), location-routing-inventory problem (LRIP), soft time window constraint (STW), multi-objective ant colony optimization (MACO)	53, 6, 803-809	https://doi.org/10.18280/jesa.530606	Li, K., Li, D., Wu, D.Q. (2020). Multi-objective optimization for location-routing-inventory problem in cold chain logistics network with soft time window constraint. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 803-809. https://doi.org/10.18280/jesa.530606
108	Babes, B., Boutaghane, A., Hamouda, N., Kahla, S., Kellai, H., Ellinger, T., Petzoldt, J.	New optimal control of permanent magnet DC motor for photovoltaic wire feeder systems	solar photovoltaic (PV) module, wire feeder systems (WFSs), DC-DC buck converter, MPPT control, FO-Fuzzy PID controller, particle swarm optimization (PSO) algorithm	53, 6, 811-823	https://doi.org/10.18280/jesa.530607	Babes, B., Boutaghane, A., Hamouda, N., Kahla, S., Kellai, H., Ellinger, T., Petzoldt, J. (2020). New optimal control of permanent magnet DC motor for photovoltaic wire feeder systems. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 811-823. https://doi.org/10.18280/jesa.530607
109	Al-Shuka, H.F.N.	Proxy-based sliding mode vibration control with an adaptive approximation compensator for euler-bernoulli smart beams	proxy-based sliding mode control, piezo-patches, Euler-Bernoulli beam, adaptive approximation technique	53, 6, 825-834	https://doi.org/10.18280/jesa.530608	Al-Shuka, H.F.N. (2020). Proxy-based sliding mode vibration control with an adaptive approximation compensator for euler-bernoulli smart beams. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 825-834. https://doi.org/10.18280/jesa.530608
110	Zhu, Y.X., Wang, J.J., Li, M.Y.	Collaborative distribution in the soft time window of agricultural-means supply chain based on simulated annealing-genetic algorithm	agricultural-means supply chain (AMSC), collaborative distribution, soft time window, simulated annealing-genetic algorithm (SA-GA)	53, 6, 835-844	https://doi.org/10.18280/jesa.530609	Zhu, Y.X., Wang, J.J., Li, M.Y. (2020). Collaborative distribution in the soft time window of agricultural-means supply chain based on simulated annealing-genetic algorithm. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 835-844. https://doi.org/10.18280/jesa.530609
111	Berkani, A., Bey, M., Araria, R., Allaoui, T.	A new approach based on Fuzzy-Q-Learning algorithm to control 3 level T-type voltage source converter	Fuzzy-Q-Learning (FQL), Direct Power Control (DPC), Fuzzy Logic Control (FLC), Voltage Source Converter (VSC)	53, 6, 845-852	https://doi.org/10.18280/jesa.530610	Berkani, A., Bey, M., Araria, R., Allaoui, T. (2020). A new approach based on Fuzzy-Q-Learning algorithm to control 3 level T-type voltage source converter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 845-852. https://doi.org/10.18280/jesa.530610
112	Ezhilvannan, P., Krishnan, S.	An efficient asymmetric direct current (DC) source configured switched capacitor multi-level inverter	switched capacitor multi-level inverter, boost conversion, triangular multi-carrier sine wave pulse width modulation	53, 6, 853 -859	https://doi.org/10.18280/jesa.530611	Ezhilvannan, P., Krishnan, S. (2020). An efficient asymmetric direct current (DC) source configured switched capacitor multi-level inverter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 853-859. https://doi.org/10.18280/jesa.530611
113	Fan, H.Y., Liu, D.B., Li, L.G., Liu, G.X.	A scheme for position and capacity determination of distributed generation considering load distribution and system voltage stability	voltage stability, load distribution, Distributed Generation (DG), collaborative distribution, influence impedance mode, position and capacity determination	53, 6, 861-867	https://doi.org/10.18280/jesa.530612	Fan, H.Y., Liu, D.B., Li, L.G., Liu, G.X. (2020). A scheme for position and capacity determination of distributed generation considering load distribution and system voltage stability. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 861-867. https://doi.org/10.18280/jesa.530612
114	Ojha, A.	Design of control system using online tuning of PI controllers for three-phase active front end neutral point clamped three-level converter	PI controllers, 3-level converter, signal constraint, Total Harmonic Distortion (THD), MATLAB/SIMULINK	53, 6, 869-882	https://doi.org/10.18280/jesa.530613	Ojha, A. (2020). Design of control system using online tuning of PI controllers for three-phase active front end neutral point clamped three-level converter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 869-882. https://doi.org/10.18280/jesa.530613
115	Bouradi, S., Negadi, K., Araria, R., Marignetti, F.	Z-source inverter for energy management and vector control for electric vehicle based PMSM	battery, electric vehicle control, energy management, fuel cell, permanent magnet synchronous motor, backstepping control, vector control	53, 6, 883-892	https://doi.org/10.18280/jesa.530614	Bouradi, S., Negadi, K., Araria, R., Marignetti, F. (2020). Z-source inverter for energy management and vector control for electric vehicle based PMSM. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 883-892. https://doi.org/10.18280/jesa.530614
116	Huang, X., Huang, P.X., Huang, T.X.	Multi-objective optimization of digital management for renewable energies in smart cities	smart city, renewable energy, digital management, multi-objective optimization	53, 6, 893-902	https://doi.org/10.18280/jesa.530615	Huang, X., Huang, P.X., Huang, T.X. (2020). Multi-objective optimization of digital management for renewable energies in smart cities. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 893-902. https://doi.org/10.18280/jesa.530615
117	Belouahchi, F., Merabet, E.	Design of a new direct torque control using synergetic theory for double star induction motor	(DSIM) double star induction motor, (SMC) sliding mode control, (FLC) fuzzy logic control, (SC) synergetic control, (THD) total harmonic distortion, Lyapunov's theory	53, 6, 903-914	https://doi.org/10.18280/jesa.530616	Belouahchi, F., Merabet, E. (2020). Design of a new direct torque control using synergetic theory for double star induction motor. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 903-914. https://doi.org/10.18280/jesa.530616
118	Ren, J.F., Ye, C.M., Li, Y.	A two-stage optimization algorithm for multi-objective job-shop scheduling problem considering job transport	Job-shop scheduling problem (JSP), multiple objectives, job transport; two-stage optimization, improved fast elitist nondominated sorting genetic algorithm II (INSGA-II)	53, 6, 915-924	https://doi.org/10.18280/jesa.530617	Ren, J.F., Ye, C.M., Li, Y. (2020). A two-stage optimization algorithm for multi-objective job-shop scheduling problem considering job transport. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 915-924. https://doi.org/10.18280/jesa.530617
119	Muthukuri, N.K., Narasipuram, R.P., Mopidevi, S.	Performance analysis of nested multilevel inverter topology for 72V electric vehicle applications	Electric Vehicle (EV), Plug-in Electric Vehicle (PEV), Total Harmonic Distortion (THD), Pulse Width Modulation (PWM), Multilevel Inverter (MLI)	53, 6, 925-930	https://doi.org/10.18280/jesa.530618	Muthukuri, N.K., Narasipuram, R.P., Mopidevi, S. (2020). Performance analysis of nested multilevel inverter topology for 72V electric vehicle applications. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 925-930. https://doi.org/10.18280/jesa.530618

#	Authors	Title	Keywords	Vol/Pages	DOI	Citation
120	Qiao, T.B.	Gait control of hexapod robot based on field-programmable gate array and central pattern generator	central pattern generator (CPG), hexapod robots, gait control, field-programmable gate array (FPGA)	53, 6, 931-937	https://doi.org/10.18280/jesa.530619	Qiao, T.B. (2020). Gait control of hexapod robot based on field-programmable gate array and central pattern generator. Journal Européen des Systèmes Automatisé, Vol. 53, No. 6, pp. 931-937. https://doi.org/10.18280/jesa.530619
121	Devineni, G.K., Ganesh, A.	Problem formulations, solving strategies, implementation methods & applications of selective harmonic elimination for multilevel converters	multilevel converters, PWM formulations, SHEPWM, optimization algorithms, solving techniques	53, 6, 939-952	https://doi.org/10.18280/jesa.530620	Devineni, G.K., Ganesh, A. (2020). Problem formulations, solving strategies, implementation methods & applications of selective harmonic elimination for multilevel converters. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 939-952. https://doi.org/10.18280/jesa.530620
122	He, Y.J.	Influencing factors and evaluation model of quality risks in intelligent manufacturing mobile supply chain	intelligent manufacturing (IM), mobile supply chain (MSC), quality risk evaluation, backpropagation neural network (BPNN)	53, 6, 953-961	https://doi.org/10.18280/jesa.530621	He, Y.J. (2020). Influencing factors and evaluation model of quality risks in intelligent manufacturing mobile supply chain. Journal Européen des Systèmes Automatisés, Vol. 53, No. 6, pp. 953-961. https://doi.org/10.18280/jesa.530621
123	Minh, V.T., Tamre, M., Musalimov, V., Kovalenko, P., Rubinshtein, I., Ovchinnikov, I., Krcmarik, D., Moezzi, R., Hlava, J.	Model predictive control for modeling human gait motions assisted by Vicon technology	human gait plant, human gait model, central nervous system, model predictive control, 5-link mechanism, Vicon motion capture	53, 5, 589-600	https://doi.org/10.18280/jesa.530501	Minh, V.T., Tamre, M., Musalimov, V., Kovalenko, P., Rubinshtein, I, Ovchinnikov, I., Krcmarik, D., Moezzi, R., Hlava, J. (2020). Model predictive control for modeling human gait motions assisted by Vicon technology. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 589-600. https://doi.org/10.18280/jesa.530501
124	Adjati, A., Rekioua, T., Rekioua, D., Tounzi, A.	Study of dual stator induction motor in photovoltaic-fuel cell hybrid pumping application	centrifugal pump, dual stator induction motor (DSIM), fuel cell (FC), hybrid pumping system (HPS), photovoltaic generator (GPV), renewable energy	53, 5, 601-608	https://doi.org/10.18280/jesa.530502	Adjati, A., Rekioua, T., Rekioua, D., Tounzi, A. (2020). Study of dual stator induction motor in photovoltaic-fuel cell hybrid pumping application. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 601-608. https://doi.org/10.18280/jesa.530502
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126	Moati, Y., Kouzi, K.	An efficient of direct torque control of indirect three level matrix converter fed dual stator induction motor based on synergetic controller	Dual Stator Induction Motor (DSIM), Indirect Three-Level Matrix Converter (ITLMC), Space Vector Modulation (SVM), Constanat Switching Frequency Controller (CSFC), Direct Torque Control (DTC), Synergetic Control (SC)	53, 5, 617-627	https://doi.org/10.18280/jesa.530504	Moati, Y., Kouzi, K. (2020). An efficient of direct torque control of indirect three level matrix converter fed dual stator induction motor based on synergetic controller. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 617-627. https://doi.org/10.18280/jesa.530504
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128	Jiang, F.C., Feng, C.W., Zhu, C., Sun, Y.	Performance analysis of active queue management algorithm based on reinforcement learning	congestion control, active queue management (AQM), random early detection (RED), reinforcement learning AQM (RLAQM)	53, 5, 637-644	https://doi.org/10.18280/jesa.530506	Jiang, F.C., Feng, C.W., Zhu, C., Sun, Y. (2020). Performance analysis of active queue management algorithm based on reinforcement learning. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 637-644. https://doi.org/10.18280/jesa.530506
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133	Liu, J.L., Li, K.	Design of an intelligent symptom differentiation and electrical stimulation rehabilitation system	intelligent symptom differentiation (ISD), electrical stimulation rehabilitation (ESR), artificial intelligence (AI), system design, insomnia	53, 5, 681-693	https://doi.org/10.18280/jesa.530511	Liu, J.L., Li, K. (2020). Design of an intelligent symptom differentiation and electrical stimulation rehabilitation system. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 681-693. https://doi.org/10.18280/jesa.530511
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139	Faiza, A.A., Morsli, S., Tayeb, A.	Self tuning filter based fuzzy logic controller for active power filter	active power filter, fuzzy logic controller, hysteresis control, self tuned filter	53, 5, 739-745	https://doi.org/10.18280/jesa.530517	Faiza, A.A., Morsli, S., Tayeb, A. (2020). Self tuning filter based fuzzy logic controller for active power filter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 5, pp. 739-745. https://doi.org/10.18280/jesa.530517
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148	Wang, D.Y., Geng, Z.X.	Adaptive Lp-norm regularized sparse representation for human activity recognition in coal mines	feature extraction, sparse representation, human activity recognition, adaptive-norm regularization, structured regularization	53, 4, 499-504	https://doi.org/10.18280/jesa.530408	Wang, D.Y., Geng, Z.X. (2020). Adaptive Lp-norm regularized sparse representation for human activity recognition in coal mines. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 499-504. https://doi.org/10.18280/jesa.530408
149	Pandi, P., Mopidevi, S., Krishnan, S.	Design and analysis of grid tied renewable energy system based e-chopper using main controller	main controller, speed goat, DSPIC, grid, wind, solar, e-chopper	53, 4, 505-515	https://doi.org/10.18280/jesa.530409	Pandi, P., Mopidevi, S., Krishnan, S. (2020). Design and analysis of grid tied renewable energy system based e-chopper using main controller. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 505-515. https://doi.org/10.18280/jesa.530409
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151	Himour, K., Yahiaoui, A., Iffouzar, K.	Comparison of different control strategies of multilevel inverters used to fed a dual star induction machine	dual star induction machine, multilevel inverters, pulse width modulation strategy, simplified space vector control strategy, random pulse width modulation strategy	53, 4, 525-532	https://doi.org/10.18280/jesa.530411	Himour, K., Yahiaoui, A., Iffouzar, K. (2020). Comparison of different control strategies of multilevel inverters used to fed a dual star induction machine. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 525-532. https://doi.org/10.18280/jesa.530411
152	Geng, J., Liu, Y.C., Zhang, P.C.	Data collection for mobile crowd sensing based on tensor completion	tensor completion, mobile crowd sensing, sparse sampling, data collection	53, 4, 533-540	https://doi.org/10.18280/jesa.530412	Geng, J., Liu, Y.C., Zhang, P.C. (2020). Data collection for mobile crowd sensing based on tensor completion. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 533-540. https://doi.org/10.18280/jesa.530412
153	Machavarapu, S., Rao, M.V.G., Rao, P.V.R.	Design of load frequency controller for multi-area system using AI techniques	backpropagation algorithm, fuzzy logic controller, PI-controller, tie line, load frequency controller, automatic speed governor	53, 4, 541-548	https://doi.org/10.18280/jesa.530413	Machavarapu, S., Rao, M.V.G., Rao, P.V.R. (2020). Design of load frequency controller for multi-area system using AI techniques. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 541-548. https://doi.org/10.18280/jesa.530413

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155	Kaddouri, L., Adamou-Mitiche, A.B.H., Mitiche, L.	Design of two-dimensional recursive digital filter using multi particle swarm optimization algorithm	2D filter, recursive filters, optimization, multi-PSO, stability	53, 4, 559-566	https://doi.org/10.18280/jesa.530415	Kaddouri, L., Adamou-Mitiche, A.B.H., Mitiche, L. (2020). Design of two-dimensional recursive digital filter using multi particle swarm optimization algorithm. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 559-566. https://doi.org/10.18280/jesa.530415
156	Kotla, R.W., Yarlagadda, S.R.	Grid tied solar photovoltaic power plants with constant power injection maximum power point tracking algorithm	P&O MPPT, constant power injection algorithm, SPVPP's, grid tied PV systems, single phase two-stage systems	53, 4, 567-573	https://doi.org/10.18280/jesa.530416	Kotla, R.W., Yarlagadda, S.R. (2020). Grid tied solar photovoltaic power plants with constant power injection maximum power point tracking algorithm. Journal Européen des Systèmes Automatisés, Vol. 53, No. 4, pp. 567-573. https://doi.org/10.18280/jesa.530416
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159	Koulali, M., Berkani, A., Negadi, K., Mankour, M., Mezouar, A.	Sliding fuzzy controller for energy management of residential load by multi-sources power system using wind PV and battery	battery storage system, multi-sources system, three level inverter, MPPT, sliding mode control, fuzzy logic control, photovoltaic system, wind turbine	53, 3, 305-315	https://doi.org/10.18280/jesa.530301	Koulali, M., Berkani, A., Negadi, K., Mankour, M., Mezouar, A. (2020). Sliding fuzzy controller for energy management of residential load by multi-sources power system using wind PV and battery. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 305-315. https://doi.org/10.18280/jesa.530301
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167	Medjoudj, R., Mazighi, I.	Estimation of photovoltaic energy conversion using mixed Weibull distribution	photovoltaic system, stochastic modeling, data analysis, power generation, mixed Weibull distribution	53, 3, 385-391	https://doi.org/10.18280/jesa.530309	Medjoudj, R., Mazighi, I. (2020). Estimation of photovoltaic energy conversion using mixed Weibull distribution. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 385-391. https://doi.org/10.18280/jesa.530309
168	Soma, S.K., Netapally, R.S.R., Mallapu, V.K.	Low-stress and efficient design of integrated boost series parallel fly-back converters	Integrated Boost Series Parallel Fly-Back Converter (IBSPFC), QSC (Quasi Switched Capacitor), voltage mode control	53, 3, 393-401	https://doi.org/10.18280/jesa.530310	Soma, S.K., Netapally, R.S.R., Mallapu, V.K. (2020). Low-stress and efficient design of integrated boost series parallel fly-back converters. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 393-401. https://doi.org/10.18280/jesa.530310
169	Ke, L., Li, W.L., He, G.Q., Lin, G.B.	Fatigue life prediction of electromagnetic brake connection device in high-speed maglev train	high-speed maglev train, electromagnetic brake connection device (the Device), fatigue life prediction, finite-element analysis	53, 3, 403-409	https://doi.org/10.18280/jesa.530311	Ke, L., Li, W.L., He, G.Q., Lin, G.B. (2020). Fatigue life prediction of electromagnetic brake connection device in high-speed maglev train. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 403-409. https://doi.org/10.18280/jesa.530311
170	Suryatal, B.K., Sarawade, S.S., Deshmukh, S.P.	A stereolithography system for 3D low cost components	photo-polymer, stereolithography, rapid prototyping, ultra-violet light	53, 3, 411-420	https://doi.org/10.18280/jesa.530312	Suryatal, B.K., Sarawade, S.S., Deshmukh, S.P. (2020). A stereolithography system for 3D low cost components. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 411-420. https://doi.org/10.18280/jesa.530312
171	Yadlapalli, R.T., Kotapati, A.	Modeling and control of laptop computer voltage regulator module with multiple power sources	fuel cell, controllers, synchronous rectification (SR)	53, 3, 421-427	https://doi.org/10.18280/jesa.530313	Yadlapalli, R.T., Kotapati, A. (2020). Modeling and control of laptop computer voltage regulator module with multiple power sources. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 421-427. https://doi.org/10.18280/jesa.530313

172	Gao, F.M., Wu, P.	A trajectory planning algorithm for medical manipulators based on adaptive particle swarm optimization and fuzzy neural network	particle swarm optimization (PSO) algorithm, medical manipulator, jitter suppression, fuzzy neural network (FNN)	53, 3, 429-435	https://doi.org/10.18280/jesa.530314	Gao, F.M., Wu, P. (2020). A trajectory planning algorithm for medical manipulators based on adaptive particle swarm optimization and fuzzy neural network. Journal Européen des Systèmes Automatisés, Vol. 53, No. 3, pp. 429-435. https://doi.org/10.18280/jesa.530314
173	Hamouda, N., Babes, B., Hamouda, C., Kahla, S., Ellinger, T., Petzoldt, J.	Optimal tuning of fractional order proportional-integral-derivative controller for wire feeder system using ant colony optimization	gas metal arc welding process, wire-feeder system, fractional-order-proportional-integral-derivative controller, ant colony optimization algorithm	53, 2, 157-166	https://doi.org/10.18280/jesa.530201	Hamouda, N., Babes, B., Hamouda, C., Kahla, S., Ellinger, T., Petzoldt, J. (2020). Optimal tuning of fractional order proportional-integral-derivative controller for wire feeder system using ant colony optimization. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 157-166. https://doi.org/10.18280/jesa.530201
174	Syam, S., Kurniati, S., Ramang, R.	Design and characteristics of axial magnetic gear using rectangular magnet	DC motor, permanent magnet, torque	53, 2, 167-175	https://doi.org/10.18280/jesa.530202	Syam, S., Kurniati, S., Ramang, R. (2020). Design and characteristics of axial magnetic gear using rectangular magnet. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 167-175. https://doi.org/10.18280/jesa.530202
175	Peng, X., Hao, S.J., Zhao, Y.Z., Sun, Y., Liu, W.W.	A novel control system of flexible impact positive displacement motor for underground directional drilling in coalmines	directional drilling, hard rock drilling, axial impact, flexible impact positive displacement motor (PDM)	53, 2, 177-185	https://doi.org/10.18280/jesa.530203	Peng, X., Hao, S.J., Zhao, Y.Z., Sun, Y., Liu, W.W. (2020). A novel control system of flexible impact positive displacement motor for underground directional drilling in coalmines. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 177-185. https://doi.org/10.18280/jesa.530203
176	Chennippan, M., Bhaskaran, P.E., Adhulrasheed, I.S.K., Subramaniam, T., Govindasamy, R.	Vibration signals based bearing defects identification through online monitoring using LABVIEW	fault identification, ball bearing, online monitoring, Programmable Logic Controller (PLC), LABVIEW	53, 2, 187-193	https://doi.org/10.18280/jesa.530204	Chennippan, M., Bhaskaran, P.E., Adhulrasheed, I.S.K., Subramaniam, T., Govindasamy, R. (2020). Vibration signals based bearing defects identification through online monitoring using LABVIEW. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 187-193. https://doi.org/10.18280/jesa.530204
177	Bennaoui, A., Saadi, S., Ameur, A.	Invasive weed optimization algorithm for tuning transitioning from Type-1 to interval Type-2 fuzzy logic controller for boost DC-DC converters	IWO, Type-2 fuzzy logic controller, Type-1 membership functions, interval Type-2 membership functions, footprint of uncertainty (FOU)	53, 2, 195-202	https://doi.org/10.18280/jesa.530205	Bennaoui, A., Saadi, S., Ameur, A. (2020). Invasive weed optimization algorithm for tuning transitioning from Type-1 to interval Type-2 fuzzy logic controller for boost DC-DC converters. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 195-202. https://doi.org/10.18280/jesa.530205
178	Chen, R.C., Ou, Y.T., Fang, W.H., Shi, Y.G., Liu L.	Simulation analysis of a self-balancing hydraulic platform for agricultural machinery in mountainous regions	agricultural machinery, mountainous regions, self-balancing, kinematics, dynamics	53, 2, 203-211	https://doi.org/10.18280/jesa.530206	Chen, R.C., Ou, Y.T., Fang, W.H., Shi, Y.G., Liu L. (2020). Simulation analysis of a self-balancing hydraulic platform for agricultural machinery in mountainous regions. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 203-211. https://doi.org/10.18280/jesa.530206
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180	Gunasekaran, S.S., Manivannan, S., Ramakrishnan, P.	An experimental investigation on regulated and unregulated emissions of a gasohol fueled SI engine with a novel three way catalytic converter	alternate fuels, gasohol, regulated and unregulated emissions, catalyst, conversion efficiency, three-way catalytic converter	53, 2, 219-224	https://doi.org/10.18280/jesa.530208	Gunasekaran, S.S., Manivannan, S., Ramakrishnan, P. (2020). An experimental investigation on regulated and unregulated emissions of a gasohol fueled SI engine with a novel three way catalytic converter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 219-224. https://doi.org/10.18280/jesa.530208
181	Zhang, W.L.	Response features of biological enzyme system to excitation signals of different frequencies and periods	time delay, biological enzyme system, vibration resonance, amplitude gain	53, 2, 225-231	https://doi.org/10.18280/jesa.530209	Zhang, W.L. (2020). Response features of biological enzyme system to excitation signals of different frequencies and periods. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 225-231. https://doi.org/10.18280/jesa.530209
182	Chouidira, I, Khodja, D.E., Chakroune, S.	Fuzzy logic based broken bar fault diagnosis and behavior study of induction machine	induction machine, detection, diagnosis, fuzzy logic, fast fourier transformation	53, 2, 233-242	https://doi.org/10.18280/jesa.530210	Chouidira, I, Khodja, D.E., Chakroune, S. (2020). Fuzzy logic based broken bar fault diagnosis and behavior study of induction machine. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 233-242. https://doi.org/10.18280/jesa.530210
183	Li, M., He, S.H., You, L.N., Huang, Z.C.	Dynamic intuitionistic fuzzy multiple attributes decision making method based on prospect theory and VIKOR	VIKOR, dynamic intuitionistic fuzzy, multiple attribute decision making	53, 2, 243-248	https://doi.org/10.18280/jesa.530211	Li, M., He, S.H., You, L.N., Huang, Z.C. (2020). Dynamic intuitionistic fuzzy multiple attributes decision making method based on prospect theory and VIKOR. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 243-248. https://doi.org/10.18280/jesa.530211
184	Shaik, G.B., Mani, V., Mopidevi, S.	An improved single phase self-balancing switched capacitor based step-up nine level inverter	Total Standing Voltage (TSV), Phase Disposition Carrier based PWM (PDCPWM), self-balancing, switched-capacitor, Peak Inverse Voltage (PIV)	53, 2, 249-257	https://doi.org/10.18280/jesa.530212	Shaik, G.B., Mani, V., Mopidevi, S. (2020). An improved single phase self-balancing switched capacitor based step-up nine level inverter. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 249-257. https://doi.org/10.18280/jesa.530212
185	Mehedi, F., Yahdou, A., Djilali, A.B., Benbouhenni, H.	Direct torque fuzzy controlled drive for multi-phase IPMSM based on SVM technique	direct torque control, stator flux ripple, fuzzy logic controller, multi-phase interior permanent magnet synchronous motor, torque ripple, space vector modulation	53, 2, 259-266	https://doi.org/10.18280/jesa.530213	Mehedi, F., Yahdou, A., Djilali, A.B., Benbouhenni, H. (2020). Direct torque fuzzy controlled drive for multi-phase IPMSM based on SVM technique. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 259-266. https://doi.org/10.18280/jesa.530213
186	Li, W., Lv, G.C., Qi, B.J., Huang, S.T., Jiang, H.N.	esign and application of a dual processor digital control system for ultra-high frequency pulsed gas tungsten arc welding	dual processor, digital control, ultra-high-frequency pulse modulation, gas tungsten arc welding (GTAW)	53, 2, 267-272	https://doi.org/10.18280/jesa.530214	Li, W., Lv, G.C., Qi, B.J., Huang, S.T., Jiang, H.N. (2020). Design and application of a dual processor digital control system for ultra-high frequency pulsed gas tungsten arc welding. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 267-272. https://doi.org/10.18280/jesa.530214
187	Adjati, A., Rekioua, T., Rekioua, D.	Degraded mode of dual stator induction motor in pumping	centrifugal pump, degraded mode, dual stator induction motor (DSIM), inverters, phase opening	53, 2, 273-282	https://doi.org/10.18280/jesa.530215	Adjati, A., Rekioua, T., Rekioua, D. (2020). Degraded mode of dual stator induction motor in pumping. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 273-282. https://doi.org/10.18280/jesa.530215
188	Li, S.J.	A decision model for bike sharing based on big data analysis	big data analysis, decision model, bike sharing, backpropagation neural network (BPNN), linear regression	53, 2, 283-288	https://doi.org/10.18280/jesa.530216	Li, S.J. (2020). A decision model for bike sharing based on big data analysis. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 283-288. https://doi.org/10.18280/jesa.530216

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190	Wang, W.T., Tian, K., Zhang, J.X.	Dynamic modelling and adaptive control of automobile active suspension system	active suspension system, reinforcement learning (RL), adaptive control, dynamic modelling	53, 2, 297-303	https://doi.org/10.18280/jesa.530218	Wang, W.T., Tian, K., Zhang, J.X. (2020). Dynamic modelling and adaptive control of automobile active suspension system. Journal Européen des Systèmes Automatisés, Vol. 53, No. 2, pp. 297-303. https://doi.org/10.18280/jesa.530218
191	Araria, R., Berkani, A., Negadi, K., Marignetti, F., Boudiaf, M.	Performance analysis of DC-DC converter and DTC based fuzzy logic control for power management in electric vehicle application	fuzzy logic control (FLC), direct torque control (DTC), DC-DC converter, battery, DC-AC inverter, electric vehicle (EV), induction motor (IM) drives	53, 1, 1-9	https://doi.org/10.18280/jesa.530101	Araria, R., Berkani, A., Negadi, K., Marignetti, F., Boudiaf, M. (2020). Performance analysis of DC-DC converter and DTC based fuzzy logic control for power management in electric vehicle application. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 1-9. https://doi.org/10.18280/jesa.530101
192	Singh, S.B., Suresha, R., Sachidananda, K.H.	Reliability centered maintenance used in metro railways	reliability, maintenance, predictive, fault, railways, condition based maintenance (CBM)	53, 1, 11-19	https://doi.org/10.18280/jesa.530102	Singh, S.B., Suresha, R., Sachidananda, K.H. (2020). Reliability centered maintenance used in metro railways. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 11-19. https://doi.org/10.18280/jesa.530102
193	Liu, X.W., Li, H.T., Wang, B.Y., Zhao, L., Liu, J.D.	Intelligent optimization algorithm for maintenance scheme based on life cycle cost	life cycle cost (LCC), intelligent optimization, genetic algorithm (GA), optimal solution, maintenance scheme	53, 1, 21-28	https://doi.org/10.18280/jesa.530103	Liu, X.W., Li, H.T., Wang, B.Y., Zhao, L., Liu, J.D. (2020). Intelligent optimization algorithm for maintenance scheme based on life cycle cost. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 21-28. https://doi.org/10.18280/jesa.530103
194	El Hamdaouy, A., Salhi, I, Dahbi, M., Oulad-Abbou, D., Doubabi, S.	Design of a low-cost autonomous controller, management and security system for pico-hydroelectric power plants	renewable energy, Pico hydroelectric power plant, low-cost prototype, load-frequency controller, management and controller systems	53, 1, 29-38	https://doi.org/10.18280/jesa.530104	El Hamdaouy, A., Salhi, I, Dahbi, M., Oulad-Abbou, D., Doubabi, S. (2020). Design of a low-cost autonomous controller, management and security system for pico-hydroelectric power plants. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 29-38. https://doi.org/10.18280/jesa.530104
195	Roger, N.P., Teplaira, B.A., Salomé, N.E.	Multi objective optimization of a power distribution system based on mixed integer programming	multi objective optimization, power distribution system, reconfiguration, mixed integer programming	53, 1, 39-46	https://doi.org/10.18280/jesa.530105	Roger, N.P., Teplaira, B.A., Salomé, N.E. (2020). Multi objective optimization of a power distribution system based on mixed integer programming. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 39-46. https://doi.org/10.18280/jesa.530105
196	Wang, Y.J., Li, Y., Li, K., Wang, N.D.	Design of a remote meter reading system for residential heating	on-off time-area method, building manager, remote meter reading, heat metering	53, 1, 47-54	https://doi.org/10.18280/jesa.530106	Wang, Y.J., Li, Y., Li, K., Wang, N.D. (2020). Design of a remote meter reading system for residential heating. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 47-54. https://doi.org/10.18280/jesa.530106
197	Rozak, A., Jaqin, C., Hasbullah, H.	Increasing overall equipment effectiveness in automotive company using DMAIC and FMEA method	overall equipment effectiveness, availability, failure mode and effect analysis, DMAIC cycle, pareto diagram, cause and effect diagram	53, 1, 55-60	https://doi.org/10.18280/jesa.530107	Rozak, A., Jaqin, C., Hasbullah, H. (2020). Increasing overall equipment effectiveness in automotive company using DMAIC and FMEA method. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 55-60. https://doi.org/10.18280/jesa.530107
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199	Benbouhenni, H., Boudjema, Z., Belaidi, A.	DPC based on ANFIS super-twisting sliding mode algorithm of a doubly-fed induction generator for wind energy system	DPC, DFIG, powers ripples, STSMC, WTS, ANFIS	53, 1, 69-80	https://doi.org/10.18280/jesa.530109	Benbouhenni, H., Boudjema, Z., Belaidi, A. (2019). DPC based on ANFIS super-twisting sliding mode algorithm of a doubly-fed induction generator for wind energy system. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 69-80. https://doi.org/10.18280/jesa.530109
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201	Huang, J.J.	Vibration testing of a certain turbojet engine using the power spectrum analysis	turbojet engine, engine test, vibration testing, power spectrum analysis, fault diagnosis	53, 1, 87-93	https://doi.org/10.18280/jesa.530111	Huang, J.J. (2020). Vibration testing of a certain turbojet engine using the power spectrum analysis. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 87-93. https://doi.org/10.18280/jesa.530111
202	Chenna, A., Aouzellag, D., Ghedamsi, K.	Study and control of a pumped storage hydropower system dedicated to renewable energy resources	pumped-storage hydropower, renewable energy, permanent machine synchronous generator, power control	53, 1, 95-102	https://doi.org/10.18280/jesa.530112	Chenna, A., Aouzellag, D., Ghedamsi, K. (2020). Study and control of a pumped storage hydropower system dedicated to renewable energy resources. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 95-102. https://doi.org/10.18280/jesa.530112
203	Chigozirim, A., Oluwatofunmi, A., Nwaocha, V.O., Juliana, N.	A speech activated control system for infrared appliances	speech recognition, infrared signal, control systems, effectors, sensor, controller	53, 1, 103-110	https://doi.org/10.18280/jesa.530113	Chigozirim, A., Oluwatofunmi, A., Nwaocha, V.O., Juliana, N. (2020). A speech activated control system for infrared appliances. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 103-110. https://doi.org/10.18280/jesa.530113
204	Huang, L.W., Li, Z.W., Li, S.R., Liu, L., Shi, Y.G.	Design and application of a free and lightweight aquaculture water quality detection robot	freshwater aquaculture, water quality detection, underwater robot, three-propeller propulsion, control system, remote monitoring	53, 1, 111-122	https://doi.org/10.18280/jesa.530114	Huang, L.W., Li, Z.W., Li, S.R., Liu, L., Shi, Y.G. (2020). Design and application of a free and lightweight aquaculture water quality detection robot. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 111-122. https://doi.org/10.18280/jesa.530114
205	Pittu, V.S.R., Gorantla, S.R.	Diseased area recognition and pesticide spraying in farming lands by multicopters and image processing system	unmanned aerial vehicle (UAV)/ multicopter, path planning, image acquisition, disease detection	53, 1, 123-130	https://doi.org/10.18280/jesa.530115	Pittu, V.S.R., Gorantla, S.R. (2020). Diseased area recognition and pesticide spraying in farming lands by multicopters and image processing system. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 123-130. https://doi.org/10.18280/jesa.530115
206	Zhang, F.Q.	Fuzzy decision adjustment of train operation plan for high-speed rail network based on multi-objective optimization	high-speed rail (HSR), multi-objective optimization, fuzzy decision, chaotic firefly algorithm (CFA)	53, 1, 131-136	https://doi.org/10.18280/jesa.530116	Zhang, F.Q. (2020). Fuzzy decision adjustment of train operation plan for high-speed rail network based on multi-objective optimization. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 131-136. https://doi.org/10.18280/jesa.530116

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207	Said, B.M., Eddine, K.D., Salim, C.	Artificial neuron network based faults detection and localization in the high voltage transmission lines with Mho distance relay	fault detection and localization, diagnosis, high voltage transmission, Mho distance relay, artificial neural network	53, 1, 137-147	https://doi.org/10.18280/jesa.530117	Said, B.M., Eddine, K.D., Salim, C. (2020). Artificial neuron network based faults detection and localization in the high voltage transmission lines with Mho distance relay. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 137-147. https://doi.org/10.18280/jesa.530117
208	Yang, B.	Multi-goal driven optimization of the beam in straight-side two-point press	mechanical press, beam, parametric design, multi-goal driven optimization (multi-GDO)	53, 1, 149-155	https://doi.org/10.18280/jesa.530118	Yang, B. (2020). Multi-goal driven optimization of the beam in straight-side two-point press. Journal Européen des Systèmes Automatisés, Vol. 53, No. 1, pp. 149-155. https://doi.org/10.18280/jesa.530118
209	Belhadj, S., Belmokhtar, K., Ghedamsi, K.	Improvement of energy management control strategy of fuel cell hybrid electric vehicles based on artificial intelligence techniques	hybrid electric vehicle, energy management strategy, hydrogen economy, autonomy, lifetime, efficiency, artificial intelligence algorithm, battery/FC/PV	52, 6, 541-550	https://doi.org/10.18280/jesa.520601	Belhadj, S., Belmokhtar, K., Ghedamsi, K. (2019). Improvement of energy management control strategy of fuel cell hybrid electric vehicles based on artificial intelligence techniques. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 541-550. https://doi.org/10.18280/jesa.520601
210	Aliyev, E.A.	Modeling of the inking apparatus of the sheet printing machine	inking apparatus, offset printing, distribution model, dynamic characteristic	52, 6, 551-557	https://doi.org/10.18280/jesa.520602	Aliyev, E.A. (2019). Modeling of the inking apparatus of the sheet printing machine. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 551-557. https://doi.org/10.18280/jesa.520602
211	Lu, H., Wang, T.C.	An extension decision tree algorithm for lightweight design of autobody structure	autobody lightweight design, extension model, divergence reasoning, extension transform, extension decision tree (EDT) model	52, 6, 559-567	https://doi.org/10.18280/jesa.520603	Lu, H., Wang, T.C. (2019). An extension decision tree algorithm for lightweight design of autobody structure. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 559-567. https://doi.org/10.18280/jesa.520603
212	Sequeira, A.A., Mohammed, S., Kumar, A.A., Sameer, M., Kareem, Y.A., Sachidananda, K.H.	Design and fabrication of battery operated forklift	battery operated, automatic, steering, four wheel	52, 6, 569-574	https://doi.org/10.18280/jesa.520604	Sequeira, A.A., Mohammed, S., Kumar, A.A., Sameer, M., Kareem, Y.A., Sachidananda, K.H. (2019). Design and fabrication of battery operated forklift. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 569-574. https://doi.org/10.18280/jesa.520604
213	Pi, J.L., Zhang, W.M., Zhang, S.F., Pi, C.M., Xie, C.H.	A separated adaptive control strategy for different conditions based on flexible dynamics equation of robot manipulator	flexible dynamics, lagrange's equation, adaptive control, manipulator	52, 6, 575-585	https://doi.org/10.18280/jesa.520605	Pi, J.L., Zhang, W.M., Zhang, S.F., Pi, C.M., Xie, C.H. (2019). A separated adaptive control strategy for different conditions based on flexible dynamics equation of robot manipulator. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 575-585. https://doi.org/10.18280/jesa.520605
214	Dasari, M.S., Mani, V.	Simulation and analysis of PI and NN tuned PI controllers for transformer based three-phase multi-level inverter with MC-PWM techniques	multi carrier PWM, multi-level inverter, PD, POD, APOD, THD	52, 6, 587-598	https://doi.org/10.18280/jesa.520606	Dasari, M.S., Mani, V. (2019). Simulation and analysis of PI and NN tuned PI controllers for transformer based three-phase multi-level inverter with MC-PWM techniques. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 587-598. https://doi.org/10.18280/jesa.520606
215	Chandrasekaran, G., Kumarasamy, V., Chinraj, G.	Test scheduling of core based system-on-chip using modified ant colony optimization	System-On-Chip (SoC), Test Access Mechanism (TAM), Ant Colony Optimization (ACO), artificial intelligence, modified ant colony optimization	52, 6, 599-605	https://doi.org/10.18280/jesa.520607	Chandrasekaran, G., Kumarasamy, V., Chinraj, G. (2019). Test scheduling of core based system-on-chip using modified ant colony optimization Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 599-605. https://doi.org/10.18280/jesa.520607
216	Wu, D.	Multi-objective Decision-making of new retailing terminals based on particle swarm optimization and genetic algorithm	new retailing, multi-type terminals, retailing scenes, elite recombination, directed optimization, particle swarm optimization (PSO), genetic algorithm (GA)	52, 6, 607-615	https://doi.org/10.18280/jesa.520608	Wu, D. (2019). Multi-objective Decision-making of new retailing terminals based on particle swarm optimization and genetic algorithm. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 607-615. https://doi.org/10.18280/jesa.520608
217	Badugu, J., Obulesu, Y.P., Babu, C.S.	Recharging methods of electric vehicles in residential distribution systems	Electric Vehicles (EVs), coordinated charging, load curve, unplanned charging, Smart Load Management (SLM)	52, 6, 617-623	https://doi.org/10.18280/jesa.520609	Badugu, J., Obulesu, Y.P., Babu, C.S. (2019). Recharging methods of electric vehicles in residential distribution systems. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 617-623. https://doi.org/10.18280/jesa.520609
218	Tang, Y., Wang, Z.W., Zhang, Y., Fang, R.	Analysis on information sharing in forest product supply chain based on evolutionary game theory	Forest Product Supply Chain (FPSC), Information Sharing (IS), Evolutionary Game Theory, Equilibrium Strategy	52, 6, 625-630	https://doi.org/10.18280/jesa.520610	Tang, Y., Wang, Z.W., Zhang, Y., Fang, R. (2019). Analysis on information sharing in forest product supply chain based on evolutionary game theory. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 625-630. https://doi.org/10.18280/jesa.520610
219	Saritha, S., Mamatha, E., Reddy, C.S.	Performance measures of online warehouse service system with replenishment policy	inventory system, replenishment orders, markov process, queuing system, cost optimization	52, 6, 631-638	https://doi.org/10.18280/jesa.520611	Saritha, S., Mamatha, E., Reddy, C.S. (2019). Performance measures of online warehouse service system with replenishment policy. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 631-638. https://doi.org/10.18280/jesa.520611
220	Wang, M., Zhang, X.M., Fan, M.Y., Hao, M.	Influencing factors of channel collaboration in multi-channel supply chain: A contextual ambidexterity-based analysis from the perspective of traditional retailer	multi-channel supply chain (SC), channel collaboration, contextual ambidexterity, traditional sales channel, direct sales channel	52, 6, 639-647	https://doi.org/10.18280/jesa.520612	Wang, M., Zhang, X.M., Fan, M.Y., Hao, M. (2019). Influencing factors of channel collaboration in multi-channel supply chain: A contextual ambidexterity-based analysis from the perspective of traditional retailer. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 639-647. https://doi.org/10.18280/jesa.520612
221	Medjadji, A., Mazari, M., Kebir, T., Belaziz, A.	Simulation study of fatigue lifetime in PE100 pipes	Fatigue Lifetime, PE100 Pipes, High Density of Polyethylene HDPE	52, 6, 649-654	https://doi.org/10.18280/jesa.520613	Medjadji, A., Mazari, M., Kebir, T., Belaziz, A. (2019). Simulation study of fatigue lifetime in PE100 pipes. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 649-654. https://doi.org/10.18280/jesa.520613
222	Manukonda, D., Gorantla, S.R.	Simulation of model predictive controller based oscillatory water pumping system for residential applications	vortex bladeless wind turbine, model predictive controller, maximum power point tracking, single phase induction motor, battery management system	52, 6, 655-661	https://doi.org/10.18280/jesa.520614	Manukonda, D., Gorantla, S.R. (2019). Simulation of model predictive controller based oscillatory water pumping system for residential applications. Journal Européen des Systèmes Automatisés, Vol. 52, No. 6, pp. 655-661. https://doi.org/10.18280/jesa.520614
223	Joshy, A., Dsouza, R., Muthirulan, V., Sachidananda, K.H.	Experimental analysis on the turning of aluminum alloy 7075 based on taguchi method and artificial neural network	turning, feed rate, cutting speed, depth of cut, surface roughness, Artificial Neural Network (ANN), taguchi method, machining	52, 5, 429-437	https://doi.org/10.18280/jesa.520501	Joshy, A., Dsouza, R., Muthirulan, V., Sachidananda, K.H. (2019). Experimental analysis on the turning of aluminum alloy 7075 based on taguchi method and artificial neural network. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 429-437. https://doi.org/10.18280/jesa.520501

	Authors	Title	Keywords	Vol/Issue/Pages	DOI	Citation
224	Wahdan, H.G., Abdelslam, H.E., Abou-El-Enien, T.H.M., Kassem, S.S.	Sustainable product design through non-dominated sorting cuckoo search	Modular Design, Design Structure Matrix (DSM), clustering, non-dominated sorting, cuckoo search, multi-objective optimization	52, 5, 439-447	https://doi.org/10.18280/jesa.520502	Wahdan, H.G., Abdelslam, H.E., Abou-El-Enien, T.H.M., Kassem, S.S. (2019). Sustainable product design through non-dominated sorting cuckoo search. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 439-447. https://doi.org/10.18280/jesa.520502
225	Souhila, A.B., Fethi, D., Abdelhafid, O.	Design of a sliding mode observer based on computed torque control for hyper dynamic manipulation	computed torque, golf swing robot, hyper dynamic manipulation, sliding mode observer, stability	52, 5, 449-456	https://doi.org/10.18280/jesa.520503	Souhila, A.B., Fethi, D., Abdelhafid, O. (2019). Design of a sliding mode observer based on computed torque control for hyper dynamic manipulation. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 449-456. https://doi.org/10.18280/jesa.520503
226	Feng, M., Cheng, Y.R.	Optimization of drop-and-pull transport network based on shared freight station and hub-and-spoke network	Drop-And-Pull (D-P) Transport, Hub-And-Spoke (H-S) network, shared freight station, optimization	52, 5, 457-464	https://doi.org/10.18280/jesa.520504	Feng, M., Cheng, Y.R. (2019). Optimization of drop-and-pull transport network based on shared freight station and hub-and-spoke network. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 457-464. https://doi.org/10.18280/jesa.520504
227	Abdelrazik, M.A., Elsheikh, A.T., Zayan, M.A., Elhady, A.B.M.	A novel systems engineering methodology based on transdisciplinary quality system development lifecycle model. Journal Européen des Systèmes Automatisés	Transdisciplinary Quality System Development Lifecycle (TQSDL) Model, Model-Based Systems Engineering (MBSE), Dependency Structure Matrix (DSM), Quality Function Deployment (QFD), Systems Engineering (SE)	52, 5, 465-476	https://doi.org/10.18280/jesa.520505	Abdelrazik, M.A., Elsheikh, A.T., Zayan, M.A., Elhady, A.B.M. (2019). A novel systems engineering methodology based on transdisciplinary quality system development lifecycle model. Journal Européen des Systèmes Automatisés. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 465-476. https://doi.org/10.18280/jesa.520505
228	Lu, Y.P., Pei, X., Zhang, C.Z., Luo, H.Y., Liu, B., Ma, Z.D.	Design of multimodal transport path optimization model and dual pheromone hybrid algorithm	Multimodal Transport, Path Optimization, Scale Effect, Genetic Algorithm (GA), Ant Colony Optimization (ACO)	52, 5, 477-484	https://doi.org/10.18280/jesa.520506	Lu, Y.P., Pei, X., Zhang, C.Z., Luo, H.Y., Liu, B., Ma, Z.D. (2019). Design of multimodal transport path optimization model and dual pheromone hybrid algorithm. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 477-484. https://doi.org/10.18280/jesa.520506
229	Vijayan, N., Raj, S.A., Muthirulan, V., Sachidananda, K.H.	Design and fabrication of a continuous polishing machine	polishing, surface roughness, surface finish, machining	52, 5, 485-493	https://doi.org/10.18280/jesa.520507	Vijayan, N., Raj, S.A., Muthirulan, V., Sachidananda, K.H. (2019). Design and fabrication of a continuous polishing machine. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 485-493. https://doi.org/10.18280/jesa.520507
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231	Nelaturi, N., Devi, G.L.	A product recommendation model based on recurrent neural network	Recurrent Neural Network (RNN), purchase patterns, deep learning, bidirectional model, attention mechanism	52, 5, 501-507	https://doi.org/10.18280/jesa.520509	Nelaturi, N., Devi, G.L. (2019). A product recommendation model based on recurrent neural network. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 501-507. https://doi.org/10.18280/jesa.520509
232	Deng, F., Liu, X.Y., Zhang, N., Zhang, F.X.	Dimension synthesis of a 3T2R labelling robot with hybrid mechanism	hybrid mechanism, dimension synthesis, jacobian matrix, pareto frontier approach, multi-objective optimization	52, 5, 509-514	https://doi.org/10.18280/jesa.520510	Deng, F., Liu, X.Y., Zhang, N., Zhang, F.X. (2019). Dimension synthesis of a 3T2R labelling robot with hybrid mechanism. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 509-514. https://doi.org/10.18280/jesa.520510
233	Garziad, M., Saka, A.	Influence of rider on the stability and control of two wheeled vehicles	two-wheeled vehicle, rider, lean torque, steering torque, Proportional-Integral-Derivative (PID) Controller	52, 5, 515-520	https://doi.org/10.18280/jesa.520511	Garziad, M., Saka, A. (2019). Influence of rider on the stability and control of two wheeled vehicles. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 515-520. https://doi.org/10.18280/jesa.520511
234	Khaldi, L., Iffouzar, K., Ghedamsi, K., Aouzellag, D.	Performance analysis of five-phase induction machine under unbalanced parameters	performance analysis, five-phase induction machine, stator and rotor resistance variation, joule losses, torque ripples, mechanical speed	52, 5, 521-526	https://doi.org/10.18280/jesa.520512	Khaldi, L., Iffouzar, K., Ghedamsi, K., Aouzellag, D. (2019). Performance analysis of five-phase induction machine under unbalanced parameters. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 521-526. https://doi.org/10.18280/jesa.520512
235	Li, L., Huang, Y., Guo, X.X.	Kinematics modelling and experimental analysis of a six-joint manipulator	denavit and hartenberg (D-H) parameters, manipulator, kinematics modelling, simulation	52, 5, 527-533	https://doi.org/10.18280/jesa.520513	Li, L., Huang, Y., Guo, X.X. (2019). Kinematics modelling and experimental analysis of a six-joint manipulator. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 527-533. https://doi.org/10.18280/jesa.520513
236	Rao, D., Latha, C.P., Kumar, N.B., Venkatesh, P.M.	Oppositional teaching and learning based optimization of economical load dispatch problem with valve point loading effect	economic load dispatch (ELD), cost function, oppositional teaching and learning based optimization (OTLBO), valve point loading effect	52, 5, 535-540	https://doi.org/10.18280/jesa.520514	Rao, D., Latha, C.P., Kumar, N.B., Venkatesh, P.M. (2019). Oppositional teaching and learning based optimization of economical load dispatch problem with valve point loading effect. Journal Européen des Systèmes Automatisés, Vol. 52, No. 5, pp. 535-540. https://doi.org/10.18280/jesa.520514
237	Vovna, O.V., Laktionov, I.S., Dobrovolska, L.O., Kabanets, M.M., Lebediev, V.A.	Evaluation of metrological characteristics of a computerized conductivity meter of irrigation solution based on the uncertainty theory	electrical conductivity, greenhouses, arduino, piecewise linear approximation, hardware components, software	52, 4, 333-340	https://doi.org/10.18280/jesa.520401	Vovna, O.V., Laktionov, I.S., Dobrovolska, L.O., Kabanets, M.M., Lebediev, V.A. (2019). Evaluation of metrological characteristics of a computerized conductivity meter of irrigation solution based on the uncertainty theory. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 333-340. https://doi.org/10.18280/jesa.520401
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239	Lan, C.F.	A coordination contract for green agricultural product supply chain with stochastic output	green supply chain (SC), two-part tariff (TPT) contract, stochastic output, coordination	52, 4, 347-354	https://doi.org/10.18280/jesa.520403	Lan, C.F. (2019). A coordination contract for green agricultural product supply chain with stochastic output. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 347-354. https://doi.org/10.18280/jesa.520403
240	Verma, V., Chauhan, P., Gupta, M.K.	Disturbance observer-assisted trajectory tracking control for surgical robot manipulator	nonlinear control, disturbance observer, kinematics, dynamic modeling, tracking	52, 4, 355-362	https://doi.org/10.18280/jesa.520404	Verma, V., Chauhan, P., Gupta, M.K. (2019). Disturbance observer-assisted trajectory tracking control for surgical robot manipulator. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 355-362. https://doi.org/10.18280/jesa.520404

241	Mu, W.Z.	A big data-based prediction model for purchase decisions of consumers on cross-border e-commerce platforms	big data, purchase decision, prediction, cross-border e-commerce platform, multilayer perceptron (MLP)	52, 4, 363-368	https://doi.org/10.18280/jesa.520405	Mu, W.Z. (2019). A big data-based prediction model for purchase decisions of consumers on cross-border e-commerce platforms. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 363-368. https://doi.org/10.18280/jesa.520405
242	Anand, K., Mamatha, E., Reddy, C.S., Prabha, M.	Design of neural network based expert system for automated lime kiln system	artificial neural network, optimization, lime kiln, shell temperature, furnace oil consumption, intelligent controller	52, 4, 369-376	https://doi.org/10.18280/jesa.520406	Anand, K., Mamatha, E., Reddy, C.S., Prabha, M. (2019). Design of neural network based expert system for automated lime kiln system. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 369-376. https://doi.org/10.18280/jesa.520406
243	Dong, L.L., Wu, J., Wang, W.	A safe evacuation mode for ultradeep underground space in urban rail transit stations	safe evacuation mode, ultradeep underground public spaces, horizontal shelter, vertical evacuation system	52, 4, 377-385	https://doi.org/10.18280/jesa.520407	Dong, L.L., Wu, J., Wang, W. (2019). A safe evacuation mode for ultradeep underground space in urban rail transit stations. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 377-385. https://doi.org/10.18280/jesa.520407
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245	Li, D., Liu, C.H., Li, K.	A remanufacturing logistics network model based on improved multi-objective ant colony optimization	remanufacturing logistics network, carbon emissions, multi-objective ant colony optimization (MACO), genetic algorithm (GA)	52, 4, 391-395	https://doi.org/10.18280/jesa.520409	Li, D., Liu, C.H., Li, K. (2019). A remanufacturing logistics network model based on improved multi-objective ant colony optimization. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 391-395. https://doi.org/10.18280/jesa.520409
246	Ali, A.A., Hegaze, M.M., Elrodesly, A.S.	Maximizing the onboard capability of the spacecraft attitude control system based on optimal use of reaction wheels	attitude control system, optimal configuration, reaction wheels, spacecraft (SC) agility, torque envelope	52, 4, 397-407	https://doi.org/10.18280/jesa.520410	Ali, A.A., Hegaze, M.M., Elrodesly, A.S. (2019). Maximizing the onboard capability of the spacecraft attitude control system based on optimal use of reaction wheels. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 397-407 https://doi.org/10.18280/jesa.520410
247	Qu, C.G., Cao, H.L., Sun, S., Xu, M.J.	Modelling of fuel flow in climb phase through multiple linear regression based on the data collected by quick access recorder	fuel flow, quick access recorder (QAR), multiple linear regression, prediction	52, 4, 409-413	https://doi.org/10.18280/jesa.520411	Qu, C.G., Cao, H.L., Sun, S., Xu, M.J. (2019). Modelling of fuel flow in climb phase through multiple linear regression based on the data collected by quick access recorder. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 409-413. https://doi.org/10.18280/jesa.520411
248	Asfar, J., Atieh, A., Al-Mbaideen, R.	Techno-economic analysis of a microgrid hybrid renewable energy system in Jordan	hybrid renewable energy systems, homer software, microgrid, optimization	52, 4, 415-423	https://doi.org/10.18280/jesa.520412	Asfar, J., Atieh, A., Al-Mbaideen, R. (2019). Techno-economic analysis of a microgrid hybrid renewable energy system in Jordan Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 415-423. https://doi.org/10.18280/jesa.520412
249	Wahyuadnyana, K.D., Gunawan, A.A.N., Paramarta, I.B.A.	Remote control of room lights and coolers automation system SMS based	lm35 sensors, passive infrared receiver (PIR) sensors, automation system, remote control, light intensity	52, 4, 425-428	https://doi.org/10.18280/jesa.520413	Wahyuadnyana, K.D., Gunawan, A.A.N., Paramarta, I.B.A. (2019). Remote control of room lights and coolers automation system SMS based. Journal Européen des Systèmes Automatisés, Vol. 52, No. 4, pp. 425-428. https://doi.org/10.18280/jesa.520413
250	Avanzini, P.	Energy and economy: A thermodynamic approach	turning, feed rate, cutting speed, depth of cut, surface roughness, artificial neural network (ANN), taguchi method, machining	52, 3, 429-437	https://doi.org/10.18280/jesa.520301	Avanzini, P. (2019). Energy and economy: A thermodynamic approach. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 429-437. https://doi.org/10.18280/jesa.520301
251	Sun, Z.L., Lv, G., Luo, Z.Y., Xie, C.Y., Wang, W.	A novel automatic detection model for single line-to-ground fault	modular design, design structure matrix (DSM), clustering, non-dominated sorting, cuckoo search, multi-objective optimization	52, 3, 439-448	https://doi.org/10.18280/jesa.520302	Sun, Z.L., Lv, G., Luo, Z.Y., Xie, C.Y., Wang, W. (2019). A novel automatic detection model for single line-to-ground fault. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 439-448. https://doi.org/10.18280/jesa.520302
252	Sharma, N.R., Agrawal, H., Mishra, A.K.	Maintenance schedules of mining HEMM using an optimization framework model	computed torque, golf swing robot, hyper dynamic manipulation, sliding mode observer, stability	52, 3, 449-456	https://doi.org/10.18280/jesa.520303	Sharma, N.R., Agrawal, H., Mishra, A.K. (2019). Maintenance schedules of mining HEMM using an optimization framework model. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 449-456. https://doi.org/10.18280/jesa.520303
253	Chen, W., Hao, Y.F., Jin, N.Q.J.	Product collaborative innovation of project-based supply chain under the influence of knowledge input	computed torque, golf swing robot, hyper dynamic manipulation, sliding mode observer, stability	52, 3, 457-464	https://doi.org/10.18280/jesa.520304	Chen, W., Hao, Y.F., Jin, N.Q.J. (2019). Product collaborative innovation of project-based supply chain under the influence of knowledge input. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 457-464. https://doi.org/10.18280/jesa.520304
254	Yamparala, R., Perumal, B.	Secure data transmission with effective routing method using group key management techniques-A survey	Transdisciplinary Quality System Development Lifecycle (TQSDL) Model, Model-Based Systems Engineering (MBSE), Dependency Structure Matrix (DSM), Quality Function Deployment (QFD), Systems Engineering (SE)	52, 3, 465-476	https://doi.org/10.18280/jesa.520305	Yamparala, R., Perumal, B. (2019). Secure data transmission with effective routing method using group key management techniques-A survey. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 465-476. https://doi.org/10.18280/jesa.520305
255	Pan, J., Fu, Z., Chen, H.W.	Split delivery vehicle routing problem with minimum delivery amounts	multimodal transport, path optimization, scale effect, Genetic Algorithm (GA), Ant Colony Optimization (ACO)	52, 3, 477-484	https://doi.org/10.18280/jesa.520306	Pan, J., Fu, Z., Chen, H.W. (2019). Split delivery vehicle routing problem with minimum delivery amounts. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 477-484. https://doi.org/10.18280/jesa.520306
256	Fadel, M.Z., Rabie, M.G., Youssef, A.M.	Modeling, simulation and control of a fly-by-wire flight control system using classical PID and modified PI-D controllers	polishing, surface roughness, surface finish, machining	52, 3, 485-493	https://doi.org/10.18280/jesa.520307	Fadel, M.Z., Rabie, M.G., Youssef, A.M. (2019). Modeling, simulation and control of a fly-by-wire flight control system using classical PID and modified PI-D controllers. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 485-493. https://doi.org/10.18280/jesa.520307
257	Wang, S.J.	Design and simulation of a fuzzy controller for automatic train driving based on multi-swarm optimization	Passenger-Dedicated Lines (PDLs), Freight Block Trains (FBTs), operation planning, sensitivity analysis	52, 3, 495-500	https://doi.org/10.18280/jesa.520308	Wang, S.J. (2019). Design and simulation of a fuzzy controller for automatic train driving based on multi-swarm optimization. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 495-500. https://doi.org/10.18280/jesa.520308

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259	Zhang, W.L., Liu, M.J., Wang, X.	Design and simulation of a road maintenance vehicle with a multi-working position manipulator and an automatic feeding mechanism	hybrid mechanism, dimension synthesis, Jacobian matrix, pareto frontier approach, multi-objective optimization	52, 3, 509-514	https://doi.org/10.18280/jesa.520310	Zhang, W.L., Liu, M.J., Wang, X. (2019). Design and simulation of a road maintenance vehicle with a multi-working position manipulator and an automatic feeding mechanism. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 509-514. https://doi.org/10.18280/jesa.520310
260	Gupta, A., Mondal, A.K., Gupta, M.K.	Kinematic, dynamic analysis and control of 3 DOF upper-limb robotic exoskeleton	two-wheeled vehicle, rider, lean torque, steering torque, proportional-integral-derivative (PID) controller	52, 3, 515-520	https://doi.org/10.18280/jesa.520311	Gupta, A., Mondal, A.K., Gupta, M.K. (2019). Kinematic, dynamic analysis and control of 3 DOF upper-limb robotic exoskeleton. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 515-520. https://doi.org/10.18280/jesa.520311
261	Abadi, M.H., Vaziri, A.M., Jajarmi, A.	On a new and efficient numerical technique to solve a class of discrete-time nonlinear optimal control problems	performance analysis, five-phase induction machine, stator and rotor resistance variation, joule losses, torque ripples, mechanical speed	52, 3, 521-526	https://doi.org/10.18280/jesa.520312	Abadi, M.H., Vaziri, A.M., Jajarmi, A. (2019). On a new and efficient numerical technique to solve a class of discrete-time nonlinear optimal control problems. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 521-526. https://doi.org/10.18280/jesa.520312
262	Assam, B., Messalti, S., Harrag, A.	New improved hybrid MPPT based on backstepping-sliding mode for PV system	Denavit and Hartenberg (D-H) parameters, manipulator, kinematics modelling, simulation	52, 3, 527-533	https://doi.org/10.18280/jesa.520313	Assam, B., Messalti, S., Harrag, A. (2019). New improved hybrid MPPT based on backstepping-sliding mode for PV system. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 527-533. https://doi.org/10.18280/jesa.520313
263	Abdellaoui, H., Ghedamsi, K., Mecharek, A.	Performance and lifetime increase of the PEM fuel cell in hybrid electric vehicle application by using an NPC seven-level inverter	Economic Load Dispatch (ELD), Cost Function, Oppositional Teaching and Learning Based Optimization (OTLBO), valve point loading effect	52, 3, 535-540	https://doi.org/10.18280/jesa.520314	Abdellaoui, H., Ghedamsi, K., Mecharek, A. (2019). Performance and lifetime increase of the PEM fuel cell in hybrid electric vehicle application by using an NPC seven-level inverter. Journal Européen des Systèmes Automatisés, Vol. 52, No. 3, pp. 535-540. https://doi.org/10.18280/jesa.520314
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265	Sang, J.G.	A cost-effective pump scheduling method for mine drainage system based on ant colony optimization	pump scheduling, mine drainage system (MDS), ant colony optimization (ACO), cost efficiency	52, 2, 123-128	https://doi.org/10.18280/jesa.520202	Sang, J.G. (2019). A cost-effective pump scheduling method for mine drainage system based on ant colony optimization. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 123-128. https://doi.org/10.18280/jesa.520202
266	Zhong, S.	Empirical analysis on function mechanism of factors affecting the efficiency of china's agricultural products logistics	agricultural products logistics, technical efficiency, influencing factors, function mechanism	52, 2, 129-135	https://doi.org/10.18280/jesa.520203	Zhong, S. (2019). Empirical analysis on function mechanism of factors affecting the efficiency of china's agricultural products logistics. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 129-135. https://doi.org/10.18280/jesa.520203
267	Mahesh, V., Shastry, S., Murthy, V., Kumar, V., Mahesh, V.	Approach to reduce throughput time in grinding of gundrills	Gundrill, grinding, throughput time, cycle time, arena	52, 2, 137-142	https://doi.org/10.18280/jesa.520204	Mahesh, V., Shastry, S., Murthy, V., Kumar, V., Mahesh, V. (2019). Approach to reduce throughput time in grinding of gundrills. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 137-142. https://doi.org/10.18280/jesa.520204
268	Goyal, G.R., Vadhera, S.	Solution of combined economic emission dispatch with demand side management using meta-heuristic algorithms	demand side management, economic emission dispatch, load reduction, meta-heuristic algorithm	52, 2, 143-148	https://doi.org/10.18280/jesa.520205	Goyal, G.R., Vadhera, S. (2019). Solution of combined economic emission dispatch with demand side management using meta-heuristic algorithms. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 143-148. https://doi.org/10.18280/jesa.520205
269	Mu, H.P.	Disruption management of flexible job shop scheduling considering behavior perception and machine fault based on improved NSGA-II algorithm	flexible job-shop scheduling, close relative crossover and mutation, NSGA-II; multi-objective optimization, behavior perception	52, 2, 149-156	https://doi.org/10.18280/jesa.520206	Mu, H.P. (2019). Disruption management of flexible job shop scheduling considering behavior perception and machine fault based on improved NSGA-II algorithm. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 149-156. https://doi.org/10.18280/jesa.520206
270	Jiang, D.F., Liu, C.H.	Modelling of supply chain risk contagion based on system dynamics	supply chain (SC), risk contagion, system dynamics, evolution	52, 2, 157-162	https://doi.org/10.18280/jesa.520207	Jiang, D.F., Liu, C.H. (2019). Modelling of supply chain risk contagion based on system dynamics. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 157-162. https://doi.org/10.18280/jesa.520207
271	Saravanan, S., Kumar, C.R.	Impacts on NOx emission control measures to achieve EURO VI limits - a review	diesel engine, low temperature, homogeneous combustion, porous medium, emission, oxides of nitrogen, smoke opacity, particulate matter	52, 2, 163-171	https://doi.org/10.18280/jesa.520208	Saravanan, S., Kumar, C.R. (2019). Impacts on NOx emission control measures to achieve EURO VI limits - a review. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 163-171. https://doi.org/10.18280/jesa.520208
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273	Wang, C., Zeng, L.	Optimization of multi-objective job-shop scheduling under uncertain environment	job-shop scheduling problem (JSP), multi-objective tradeoff, optimization model, uncertain environment	52, 2, 179-183	https://doi.org/10.18280/jesa.520210	Wang, C., Zeng, L. (2019). Optimization of multi-objective job-shop scheduling under uncertain environment. Journal Européen des Systèmes Automatisés, Vol. 52, No. 2, pp. 179-183. https://doi.org/10.18280/jesa.520210
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279	Ram, J., Xu, D.	Live streaming video e-commerce: Examining the operational strategies	live streaming video (LSV), social media, esport, online games, ecommerce strategies	52, 1, 1-9	https://doi.org/10.18280/jesa.520101	Ram, J., Xu, D. (2019). Live streaming video e-commerce: Examining the operational strategies. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 1-9. https://doi.org/10.18280/jesa.520101
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281	Dong, B.K., Zhu, X.N., Yan, R., Wang, Y.	Development of optimization model and algorithm for storage and retrieval in automated stereo warehouses	Automated Storage and Retrieval System (AS/RS), multiple carriers, goods location allocation, picking path, integrated optimization	52, 1, 17-22	https://doi.org/10.18280/jesa.520103	Dong, B.K., Zhu, X.N., Yan, R., Wang, Y. (2019). Development of optimization model and algorithm for storage and retrieval in automated stereo warehouses. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 17-22. https://doi.org/10.18280/jesa.520103
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283	Jiao, Q.J., Jin, Y.Y.	Selection of significant community structure based on network partition-based cluster	complex network, module structure, multi-scale module detection, significant partition	52, 1, 35-41	https://doi.org/10.18280/jesa.520105	Jiao, Q.J., Jin, Y.Y. (2019). Selection of significant community structure based on network partition-based cluster. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 35-41. https://doi.org/10.18280/jesa.520105
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285	Yang, F., Shi, M.H.	Emergency surgery scheduling under urban emergencies based on improved moth-flame optimization	emergencies, surgery scheduling, fatigue effect, moth-flame optimization (MFO), chaotic perturbation	52, 1, 49-55	https://doi.org/10.18280/jesa.520107	Yang, F., Shi, M.H. (2019). Emergency surgery scheduling under urban emergencies based on improved moth-flame optimization. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 49-55. https://doi.org/10.18280/jesa.520107
286	Babu, S.N., Tamilselvi, J.	Generating road accident prediction set with road accident data analysis using enhanced expectation-maximization clustering algorithm and improved association rule mining	road accident, enhanced expectation-maximization, association rules, big data, clustering, accident prediction set	52, 1, 57-63	https://doi.org/10.18280/jesa.520108	Babu, S.N., Tamilselvi, J. (2019). Generating road accident prediction set with road accident data analysis using enhanced expectation-maximization clustering algorithm and improved association rule mining. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 57-63. https://doi.org/10.18280/jesa.520108
287	Katuri, R., Gorantla, S.	Performance and comparative analysis of math function based controller combined with PID and PI for smooth transition of energy sources	HESS, hybrid electric vehicle, electric vehicle, battery, ultra-capacitor, Uni-directional converter, bi-directional converter, MFB controller, proportional integral (PI) controller, proportional integral derivative (PID) controller	52, 1, 65-72	https://doi.org/10.18280/jesa.520109	Katuri, R., Gorantla, S. (2019). Performance and comparative analysis of math function based controller combined with PID and PI for smooth transition of energy sources. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 65-72. https://doi.org/10.18280/jesa.520109
288	Hou, Y., Cao, Z.J., Yang, S.L.	Cloud intelligent logistics service selection based on combinatorial optimization algorithm	cloud intelligent logistics (CIL), internet of things (IOT); combinatorial optimization algorithm (COA), service classification, service negotiation	52, 1, 73-78	https://doi.org/10.18280/jesa.520110	Hou, Y., Cao, Z.J., Yang, S.L. (2019). Cloud intelligent logistics service selection based on combinatorial optimization algorithm. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 73-78. https://doi.org/10.18280/jesa.520110
289	Gorantla, S., Katuri, R.	A comparative study of ANN and pi controllers combined with MFB implemented to hybrid energy storage system for smooth switching between battery and ultracapacitor	battery, Ultracapacitor (UC), Bidirectional Converter (BDC), Unidirectional Converter, Math Function Based (MFB) Controller, Proportional-Integral (PI) Controller, Artificial Neural Network (ANN) Controller, Electric Vehicles (EVs), solar power	52, 1, 79-86	https://doi.org/10.18280/jesa.520111	Gorantla, S., Katuri, R. (2019). A comparative study of ANN and pi controllers combined with MFB implemented to hybrid energy storage system for smooth switching between battery and ultracapacitor. Journal Européen des Systèmes Automatisés, Vol. 52, No. 1, pp. 79-86. https://doi.org/10.18280/jesa.520111
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295	Liu, S., Ju, Y.X., Wang, J., Yang, F., Ma, S.C., Wang, S.X.	Design of a smart after-service system for sugarcane harvesters based on product lifecycle	sugarcane harvester, service design, product lifecycle, after-service system	51, 4-6, 239-257	https://doi.org/10.3166/JESA.51.239-257	Liu, S., Ju, Y.X., Wang, J., Yang, F., Ma, S.C., Wang, S.X. (2018). Design of a smart after-service system for sugarcane harvesters based on product lifecycle. Journal Européen des Systèmes Automatisés, Vol. 51, No. 4-6, pp. 239-257. https://doi.org/10.3166/JESA.51.239-257
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298	Singamaneni, K.K., Naidu, P.S., Kumar, P.V.S.	Efficient quantum cryptography technique for key distribution	diffie-hellman, RSA, quantum cryptography, quantum key distribution	51, 4-6, 283-293	https://doi.org/10.3166/JESA.51.283-293	Singamaneni, K.K., Naidu, P.S., Kumar, P.V.S. (2018). Efficient quantum cryptography technique for key distribution. Journal Européen des Systèmes Automatisés, Vol. 51, No. 4-6, pp. 283-293. https://doi.org/10.3166/JESA.51.283-293
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300	Nuthalapati, B., Sinha, U.K.	Detection of downed or Broken power line Fault not touching the ground	high impedance faults (HIF'S), active smart wires (ASW), distributed series reactance (DSR), F-PLCCG (frequency power line carrier communication guardian	51, 4-6, 309-321	https://doi.org/10.3166/JESA.51.309-321	Nuthalapati, B., Sinha, U.K. (2018). Detection of downed or Broken power line Fault not touching the ground. Journal Européen des Systèmes Automatisés, Vol. 51, No. 4-6, pp. 309-321. https://doi.org/10.3166/JESA.51.309-321
301	Li, B., Guo, C., Ning, T.	An improved bacterial foraging optimization for multi-objective flexible job-shop scheduling problem	multi-objective flexible scheduling, bacteria foraging optimization algorithm, additional turning, multi-attribute grey target decision	51, 4-6, 323-332	https://doi.org/10.3166/JESA.51.323-332	Li, B., Guo, C., Ning, T. (2018). An improved bacterial foraging optimization for multi-objective flexible job-shop scheduling problem. Journal Européen des Systèmes Automatisés, Vol. 51, No. 4-6, pp. 323-332. https://doi.org/10.3166/JESA.51.323-332
302	Huang, L.L., Zhou, K.	Modeling and application of an embedded real-time system based on real-time colored Petri net	colored petri net, embedded real-time system, formal modeling, model simulation	51, 4-6, 333-345	https://doi.org/10.3166/JESA.51.333-345	Huang, L.L., Zhou, K. (2018). Modeling and application of an embedded real-time system based on real-time colored Petri net. Journal Européen des Systèmes Automatisés, Vol. 51, No. 4-6, pp. 333-345. https://doi.org/10.3166/JESA.51.333-345
303	Djellal, A., Lakel, R.	Adapted reference input to control PID-based active suspension system	active suspension system, pid controller, quarter car model, passive suspension system	51, 1-3, 7-23	https://doi.org/10.3166/JESA.51.7-23	Djellal, A., Lakel, R. (2018). Adapted reference input to control PID-based active suspension system. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 7-23. https://doi.org/10.3166/JESA.51.7-23
304	Kumar, K.C.R., Dandibhotla, T.S., Bulusu, V.V.	Learned ontology guided opinions analysis of extracted aspects from online product reviews	online reviews, product aspects, opinions, adjective, lexical variations, implicit opinions, ontology learning, semantic orientation	51, 1-3, 25-49	https://doi.org/10.3166/JESA.51.25-49	Kumar, K.C.R., Dandibhotla, T.S., Bulusu, V.V. (2018). Learned ontology guided opinions analysis of extracted aspects from online product reviews. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 25-49. https://doi.org/10.3166/JESA.51.25-49
305	Li, H.C., Yan, Z.W.	A flexible retraction cable reel based on planetary gear drive	cable reel, flexible retraction, friction disk, planetary gear, torque	51, 1-3, 51-58	https://doi.org/10.3166/JESA.51.51-58	Li, H.C., Yan, Z.W. (2018). A flexible retraction cable reel based on planetary gear drive. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 51-58. https://doi.org/10.3166/JESA.51.51-58
306	Zhang, S., Cao, D.X., Li, S., Min, H., Fan, F.	Inverse kinematic tension analysis and optimal design of a cable-driven parallel-series hybrid joint towards wheelchair-mounted robotic manipulator	wheelchair-mounted robotic manipulator (WMRM), cable-driven, hybrid mechanism, spring lateral buckling	51, 1-3, 59-74	https://doi.org/10.3166/JESA.51.59-74	Zhang, S., Cao, D.X., Li, S., Min, H., Fan, F. (2018). Inverse kinematic tension analysis and optimal design of a cable-driven parallel-series hybrid joint towards wheelchair-mounted robotic manipulator. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 59-74. https://doi.org/10.3166/JESA.51.59-74
307	Cui, L.M., Liao, Y.L., Zheng, D.Z.	A design method of preview controller for discrete-time systems with multiple input delays	discrete-time system, input delays, preview control, lifting method	51, 1-3, 75-87	https://doi.org/10.3166/JESA.51.75-87	Cui, L.M., Liao, Y.L., Zheng, D.Z. (2018). A design method of preview controller for discrete-time systems with multiple input delays. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 75-87. https://doi.org/10.3166/JESA.51.75-87
308	Dutta, P., Kumar, A.	Design an intelligent flow measurement technique by optimized fuzzy logic controller	flow sensor, modelling, fuzzy logic controller, membership function	51, 1-3, 89-107	https://doi.org/10.3166/JESA.51.89-107	Dutta, P., Kumar, A. (2018). Design an intelligent flow measurement technique by optimized fuzzy logic controller. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 89-107. https://doi.org/10.3166/JESA.51.89-107
309	Wang, S.H., Mao, C.S.	Evaluation of regional manufacturing quality competitiveness based on analytic network	manufacturing quality competitiveness (MQC), analytic network process (ANP), super decision (SD), quality bases, quality subjects, quality supports, quality benefits	51, 1-3, 109-124	https://doi.org/10.3166/JESA.51.109-124	Wang, S.H., Mao, C.S. (2018). Evaluation of regional manufacturing quality competitiveness based on analytic network. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 109-124. https://doi.org/10.3166/JESA.51.109-124

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311	Messoul, A., Laribi, B., Youcefi, A., Kolsi, L., Aydi, A., Aichouni, M.	Numerical investigation of the performance of the etoile flow conditioner under different geometric and dynamic configurations	computational fluid dynamics, flow conditioner, pipe flow, fully developed flow, flow rate measurements, international standards, industry 4.0	51, 1-3, 141-152	https://doi.org/10.3166/JESA.51.141-152	Messoul, A., Laribi, B., Youcefi, A., Kolsi, L., Aydi, A., Aichouni, M. (2018). Numerical investigation of the performance of the etoile flow conditioner under different geometric and dynamic configurations. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 141-152. https://doi.org/10.3166/JESA.51.141-152
312	Huang, C.J., Zhou, X.H., Hou, D.S.	Online no-wait scheduling of leather workshop supply chain based on particle swarm optimization	particle swarm optimization (PSO), supply chain, leather workshop, no-wait scheduling	51, 1-3, 153-167	https://doi.org/10.3166/JESA.51.153-167	Huang, C.J., Zhou, X.H., Hou, D.S. (2018). Online no-wait scheduling of leather workshop supply chain based on particle swarm optimization. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 153-167. https://doi.org/10.3166/JESA.51.153-167
313	Zhang, Y.Z., Li, Q.	Damage analysis of EMU frame considering randomness under different working conditions	emu, frame, dynamic stress test, working condition identification, fatigue strength evaluation, damage randomness	51, 1-3, 169-180	https://doi.org/10.3166/JESA.51.169-180	Zhang, Y.Z., Li, Q. (2018). Damage analysis of EMU frame considering randomness under different working conditions. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 169-180. https://doi.org/10.3166/JESA.51.169-180
314	Gao, J., Zhang, J.	Simulation and analysis of vehicle rear-end collision based on virtual proving ground technology	vehicles, safety performance, rear-end collision, virtual proving ground (VPG) technology, explicit dynamic finite-element theory	51, 1-3, 181-195	https://doi.org/10.3166/JESA.51.181-195	Gao, J., Zhang, J. (2018). Simulation and analysis of vehicle rear-end collision based on virtual proving ground technology. Journal Européen des Systèmes Automatisés, Vol. 51, No. 1-3, pp. 181-195. https://doi.org/10.3166/JESA.51.181-195
315	Remlaoui, A., Nehari, D., Elmeriah, A., Laissaoui, M.	A TRNSYS model of a direct contact membrane distillation (DCMD) system coupled to a flat plate solar collector (FPC)	solar desalination, direct contact membrane distillation, flat plate solar collector, water treatment, TRNSYS	50, 4-6, 335-360	https://doi.org/10.3166/JESA.50.335-360	Remlaoui, A., Nehari, D., Elmeriah, A., Laissaoui, M. (2017). A TRNSYS model of a direct contact membrane distillation (DCMD) system coupled to a flat plate solar collector (FPC). Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 335-360. https://doi.org/10.3166/JESA.50.335-360
316	Bendriss, A., Kezrane, C., Lasbet, Y., Awad, S., Loubar, K., Makhlouf, M.	Experimental investigation on the influence of a biodiesel (waste cooking oil) on the performance and exhaust emissions of a compression ignition engine	biodiesel, waste cooking oil, diesel engine, heat release analysis, emissions	50, 4-6, 361-378	https://doi.org/10.3166/JESA.50.361-378	Bendriss, A., Kezrane, C., Lasbet, Y., Awad, S., Loubar, K., Makhlouf, M. (2017). Experimental investigation on the influence of a biodiesel (waste cooking oil) on the performance and exhaust emissions of a compression ignition engine. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 361-378. https://doi.org/10.3166/JESA.50.361-378
317	Zhou, J., Wang, M.	A novel dynamic identification model for small unmanned helicopters	small unmanned helicopter, frequency domain identification, dynamic modeling, time domain verification	50, 4-6, 379-390	https://doi.org/10.3166/JESA.50.379-390	Zhou, J., Wang, M. (2017). A novel dynamic identification model for small unmanned helicopters. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 379-390. https://doi.org/10.3166/JESA.50.379-390
318	Soumya, R.M., Sheeja, K.L., Pathak, N.P.	Split ring resonator inspired microstrip filtenna for Ku-band application	antenna, filter, filtenna, defected ground structure, split ring resonator, band pass filter	50, 4-6, 391-403	https://doi.org/10.3166/JESA.20.391-403	Soumya, R.M., Sheeja, K.L., Pathak, N.P. (2017). Split ring resonator inspired microstrip filtenna for Ku-band application. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 391-403. https://doi.org/10.3166/JESA.20.391-403
319	Song, S.X., Sun, W.C., Xiao, F., Peng, S.L., An, J.Y., Wang, D.	A novel coordinated control algorithm for distributed driving electric vehicles	vehicle dynamics, distributed driving electric vehicle, Electric Stability Control (ESC), Drive Force Assisted Steering (DFAS)	50, 4-6, 405-421	https://doi.org/10.3166/JESA.50.405-421	Song, S.X., Sun, W.C., Xiao, F., Peng, S.L., An, J.Y., Wang, D. (2017). A novel coordinated control algorithm for distributed driving electric vehicles. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 405-421. https://doi.org/10.3166/JESA.50.405-421
320	Suresh, K., Vijay Babu, A.R., Venkatesh, P.M.	Silicon based pentagon current control efficient-cell device memory with equidistant sensing	transistor, memory cell, equidistant sensing	50, 4-6, 423-434	https://doi.org/10.3166/JESA.50.423-434	Suresh, K., Vijay Babu, A.R., Venkatesh, P.M. (2017). Silicon based pentagon current control efficient-cell device memory with equidistant sensing. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 423-434. https://doi.org/10.3166/JESA.50.423-434
321	Gao, Y., Xu, H., Hu, M.Q., Liu, J., Liu, J.H.	Path planning under localization uncertainty	path planning, localization, map matching, mobile robot	50, 4-6, 435-448	https://doi.org/10.3166/JESA.50.435-448	Gao, Y., Xu, H., Hu, M.Q., Liu, J., Liu, J.H. (2017). Path planning under localization uncertainty. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 435-448. https://doi.org/10.3166/JESA.50.435-448
322	Dutta, P., Kumar, A.	Design an intelligent calibration technique using optimized GA-ANN for liquid flow control system	liquid flow control process, anemometer type flow sensor, modelling, genetic algorithm, neural network model	50, 4-6, 449-470	https://doi.org/10.3166/JESA.50.449-470	Dutta, P., Kumar, A. (2017). Design an intelligent calibration technique using optimized GA-ANN for liquid flow control system. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 449-470. https://doi.org/10.3166/JESA.50.449-470
323	Du, H.W., Xiong, W., Wang, H.T., Wang, Z.W.	Physical modeling and deformation simulation of flexible cable under the plane constraint	plane constraint, flexible cable, elastic rod theory, semi-analytical method, deformation simulation	50, 4-6, 471-484	https://doi.org/10.3166/JESA.50.471-484	Du, H.W., Xiong, W., Wang, H.T., Wang, Z.W. (2017). Physical modeling and deformation simulation of flexible cable under the plane constraint. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 471-484. https://doi.org/10.3166/JESA.50.471-484
324	Haouari, F., Bali, N., Tadjine, M., Seghir Boucherit, M.	Performance improvement of flexible robot using combined observer-controller and particle swarm optimization	flexible robot, backstepping control, coefficient diagram method, nonlinear observer, particle swarm optimization	50, 4-6, 485-505	https://doi.org/10.3166/JESA.50.485-505	Haouari, F., Bali, N., Tadjine, M., Seghir Boucherit, M. (2017). Performance improvement of flexible robot using combined observer-controller and particle swarm optimization. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 485-505. https://doi.org/10.3166/JESA.50.485-505
325	Tan, J., Jiang, G.Q., Wang, Z.G.	Evolutionary game of information sharing on supply chain network based on memory genetic algorithm	memory genetic algorithm, evolutionary game, supply chain network, information sharing	50, 4-6, 507-519	https://doi.org/10.3166/JESA.50.507-519	Tan, J., Jiang, G.Q., Wang, Z.G. (2017). Evolutionary game of information sharing on supply chain network based on memory genetic algorithm. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 507-519. https://doi.org/10.3166/JESA.50.507-519
326	Pandi, C., Dandibhotla, T.S., Bulusu, V.V.	Reputation based online product recommendations	product aspects, opinions, aspect rank, frequent aspects, aspect reputation, product similarity, product recommendations	50, 4-6, 521-543	https://doi.org/10.3166/JESA.50.521-543	Pandi, C., Dandibhotla, T.S., Bulusu, V.V. (2017). Reputation based online product recommendations. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 521-543. https://doi.org/10.3166/JESA.50.521-543
327	Yang, L.L.	Numerical method for attitude motion planning of one-legged hopping robot	one-legged hopping robot, nonholonomic constraint, attitude motion planning, optimization	50, 4-6, 545-553	https://doi.org/10.3166/JESA.50.545-553	Yang, L.L. (2017). Numerical method for attitude motion planning of one-legged hopping robot. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 545-553. https://doi.org/10.3166/JESA.50.545-553

328	Kumar, R., Kumar Tadepalli, S.	Dissipativity criteria for digital filters with saturation nonlinearity	dissipativity, digital filters, direct form, Lyapunov	50, 4-6, 555-568	https://doi.org/10.3166/JESA.50.555-568	Kumar, R., Kumar Tadepalli, S. (2017). Dissipativity criteria for digital filters with saturation nonlinearity. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 555-568. https://doi.org/10.3166/JESA.50.555-568
329	Zhao, D.	Application of super-modular game model on quality and safety management of supply chain based on process control	super-modular game, process control, product quality safety problems, supply chain management	50, 4-6, 569-580	https://doi.org/10.3166/JESA.50.569-580	Zhao, D. (2017). Application of super-modular game model on quality and safety management of supply chain based on process control. Journal Européen des Systèmes Automatisés, Vol. 50, No. 4-6, pp. 569-580. https://doi.org/10.3166/JESA.50.569-580
330	Camaraza-Medina, Y., Rubio-Gonzales, A.M., Cruz Fonticiella, O.M., Garcia Morales, O.F.	Analysis of pressure influence over heat transfer coefficient on air cooled condenser	breshnetzov's method, heat transfer coefficient, independent variables	50, 3, 213-226	https://doi.org/10.3166/JESA.50.213-226	Camaraza-Medina, Y., Rubio-Gonzales, A.M., Cruz Fonticiella, O.M., Garcia Morales, O.F. (2017). Analysis of pressure influence over heat transfer coefficient on air cooled condenser. Journal Européen des Systèmes Automatisés, Vol. 50, No. 3, pp. 213-226. https://doi.org/10.3166/JESA.50.213-226
331	Srivastava, M., Sinha, M.K.	Computational analysis of encapsulated phase change materials latent heat thermal energy storage system	conduction, HTF, interface position, melting, phase change materials, TEEs	50, 3, 227-239	https://doi.org/10.3166/JESA.50.227-239	Srivastava, M., Sinha, M.K. (2017). Computational analysis of encapsulated phase change materials latent heat thermal energy storage system. Journal Européen des Systèmes Automatisés, Vol. 50, No. 3, pp. 227-239. https://doi.org/10.3166/JESA.50.227-239
332	Zhang, L., Zhang, Y.S., Jin, Q., Wang, D.M., Zhang, T.	A triple closed-loop control strategy for intelligent two-car chasing system based on particle swarm optimization	three closed-loop control, two-car chasing, particle swarm optimization (PSO), PID	50, 3, 241-256	https://doi.org/10.3166/JESA.50.241-256	Zhang, L., Zhang, Y.S., Jin, Q., Wang, D.M., Zhang, T. (2017). A triple closed-loop control strategy for intelligent two-car chasing system based on particle swarm optimization. Journal Européen des Systèmes Automatisés, Vol. 50, No. 3, pp. 241-256. https://doi.org/10.3166/JESA.50.241-256
333	Katuri, R., Gorantla, S.	Design and comparative analysis of a control strategy approach implemented to hybrid energy storage system based electric vehicle	Electric Vehicles (EVs), Converters, Battery, Ultracapacitor (UC), Hybrid Energy Storage System (HESS)	50, 3, 257-284	https://doi.org/10.3166/JESA.50.257-284	Katuri, R., Gorantla, S. (2017). Design and comparative analysis of a control strategy approach implemented to hybrid energy storage system based electric vehicle. Journal Européen des Systèmes Automatisés, Vol. 50, No. 3, pp. 257-284. https://doi.org/10.3166/JESA.50.257-284
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335	Koochaki, M., Lotfi, M.	Design of a neural network controller for the electrode control system in the electric arc furnace	Electric Arc Furnace (EAF), electrode control system, Neural Energy Control (NEC)	50, 3, 299-311	https://doi.org/10.3166/JESA.50.299-311	Koochaki, M., Lotfi, M. (2017). Design of a neural network controller for the electrode control system in the electric arc furnace. Journal Européen des Systèmes Automatisés, Vol. 50, No. 3, pp. 299-311. https://doi.org/10.3166/JESA.50.299-311
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337	Wang, H.	Shortest route optimization of job-shop scheduling based on ant colony algorithm	Job-Shop Scheduling Problem (JSP), shortest route optimization, Ant Colony Algorithm (ACA), simulation, number of iterations	50, 3, 323-334	https://doi.org/10.3166/JESA.50.323-334	Wang, H. (2017). Shortest route optimization of job-shop scheduling based on ant colony algorithm. Journal Européen des Systèmes Automatisés, Vol. 50, No. 3, pp. 323-334. https://doi.org/10.3166/JESA.50.323-334
338	Louis, J., Jungers, M., Daafouz, J.	Consistency for switched Lur'e systems. Application to sampled data control with non uniform sampling	consistency of switched systems, Lur'e type nonlinear systems, non-uniform sampling, sampled data control	50, 1-2, 9-27	https://doi.org/10.3166/JESA.50.9-27	Louis, J., Jungers, M., Daafouz, J. (2017). Consistency for switched Lur'e systems. Application to sampled data control with non uniform sampling. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 9-27. https://doi.org/10.3166/JESA.50.9-27
339	Zabi, S., Queinnec, I, Tarbouriech, S., Garcia, G., Mazerolles, M.	New approach of anesthesia control based on dynamics decoupling	anesthesia, muti-scale system, reference tracking, robust control, saturated control	50, 1-2, 29-47	https://doi.org/10.3166/JESA.50.29-47	Zabi, S., Queinnec, I, Tarbouriech, S., Garcia, G., Mazerolles, M. (2017). New approach of anesthesia control based on dynamics decoupling. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 29-47. https://doi.org/10.3166/JESA.50.29-47
340	Taleb, M., Leclercq, E., Lefebvre, D.	Predictive control of dynamic hybride systems	continuous petri net, discrete petri net, elementary hybrid petri net, predictive control	50, 1-2, 49-74	https://doi.org/10.3166/JESA.50.49-74	Taleb, M., Leclercq, E., Lefebvre, D. (2017). Predictive control of dynamic hybride systems. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 49-74. https://doi.org/10.3166/JESA.50.49-74
341	Chambon, E., Burlion, L., Apkarian, P.	Similar Metzler m otrix determination using non-smooth optimization	interval observers, multi-model synthesis, Nonsmooth optimization	50, 1-2, 75-94	https://doi.org/10.3166/JESA.50.75-94	Chambon, E., Burlion, L., Apkarian, P. (2017). Similar Metzler m otrix determination using non-smooth optimization. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp.75-94. https://doi.org/10.3166/JESA.50.75-94
342	Li, Q., Jauberthie, C., Denis-Vidal, L., Cherfi, Z., Maïga, M.	Optimal input design for parameter estimation for nonlinear dynamical systems with bounded-errors and application in aeronautic domain	bounded error, interval analysis, nonlinear system, optimal input design, parameter estimation, state estimation	50, 1-2, 95-115	https://doi.org/10.3166/JESA.50.95-115	Li, Q., Jauberthie, C., Denis-Vidal, L., Cherfi, Z., Maïga, M. (2017). Optimal input design for parameter estimation for nonlinear dynamical systems with bounded-errors and application in aeronautic domain. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 95-115. https://doi.org/10.3166/JESA.50.95-115
343	Ivanova, E., Malti, R., Moreau, X.	Frequency-domain subspace system identification with fractional differentiation models	fractional state-space representation, identification in frequency domain, deterministic and stochastic contexts, subspace method	50, 1-2, 117-135	https://doi.org/10.3166/JESA.50.117-135	Ivanova, E., Malti, R., Moreau, X. (2017). Frequency-domain subspace system identification with fractional differentiation models. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 117-135. https://doi.org/10.3166/JESA.50.117-135
344	Jedidi, S., Bourdais, R., Buisson, J., Lefebvre, M.A.	Structural identifiability and decentralized identification for systems coupled by their outputs	decentralized identification, identifiability, large scale systems	50, 1-2, 137-155	https://doi.org/10.3166/JESA.50.137-155	Jedidi, S., Bourdais, R., Buisson, J., Lefebvre, M.A. (2017). Structural identifiability and decentralized identification for systems coupled by their outputs. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 137-155. https://doi.org/10.3166/JESA.50.137-155
345	Lalami, I., Frein, Y., Gayon, J.P.	Demand variability and value of information sharing in the supply chain. A case study in the automotive industry	demand variability, information sharing, inventory management	50, 1-2, 157-186	https://doi.org/10.3166/JESA.50.157-186	Lalami, I., Frein, Y., Gayon, J.P. (2017). Demand variability and value of information sharing in the supply chain. A case study in the automotive industry. Journal Européen des Systèmes Automatisés, Vol. 50, No. 1-2, pp. 157-186. https://doi.org/10.3166/JESA.50.157-186