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Research Articles Indexed in Scopus

S. No.	Authors	Article Title	Journal Name	Volume Issue No
1	Tripathi A.K., Aruna M., Parida S., Nandan D., Elumalai P.V., Prakash E., Isaac JoshuaRamesh Lalvani J.S.C., Rao K.S.	Integrated smart dust monitoring and prediction system for surface mine sites using IoT and machine learning techniques	Scientific Reports	Vol. 14 No. 1, Year 2024,
2	Ramesh Kumar R., Karthik K., Elumalai P.V., Elumalai R., Chandran D., Prakash E., Hassin N.	Enhancing automotive cooling systems: composite fins and nanoparticles analysis in radiators	Scientific Reports	Vol. 14 No. 1 Year 2024
3	Elumalai R., Ravi K., Elumalai P.V., Sreenivasa Reddy M., Prakash E., Sekar P.	Development of an ammonia-biodiesel dual fuel combustion engine's injection strategy map using response surface optimization and artificial neural network prediction	Scientific Reports	Vol. 14 No. 1 Year 2024
4	Jilte R., Afzal A., Khan S.A., Asif M., Venkatesan E.P., Munimathan A.	Cooling performance of a Li-ion cylindrical battery pack with liquid circulating pipes embedded in phase change material	Journal of Energy Storage	Vol. 87 Year 2024
5	Elumalai R., Sumathy S., K R., Akhtar M.N., P V E., Khan S.A., Gupta M.S., Asif M.	Experimental investigation and gray relational optimization of engine parameters to improve the output characteristics of an ammonia biodiesel powered dual fuel combustion engine	Case Studies in Thermal Engineering	Vol. 56 Year 2024
6	Patel A., Ahmed Z., Singh V.K.	Natural convection within enclosures for thermal management in low-pressure environments	International Journal of Heat and Fluid Flow	Vol. 106 Year 2024

7	Ravi J., Subbayamma B.V., Kumar P.V., Sriramam Y.S.S., Marlin S., Sheeba A., Kumar N.V.P.S.	Multi-image fusion: optimal decomposition strategy with heuristic- assisted non-subsampled shearlet transform for multimodal image fusion	Signal, Image and Video Processing	Vol. 18 No.3 Year 2024
8	Karan B., Kumar A.	Hilbert Domain Analysis of Wavelet Packets for Emotional Speech Classification	Circuits, Systems, and Signal Processing	Vol. 43 No.4 Year 2024
9	Devana V.N.K.R., Radha N., Sunitha P., Alsunaydih F.N., Alsaleem F., Alhassoon K.	Compact MIMO UWB antenna integration with Ku band for advanced wireless communication applications	Heliyon	Vol. 10 No.5 Year 2024
10	Rao K.S.V.V.P., Anitha M., Rao V.S.	Improved KY Buck-Boost Converter with Meta-Heuristic Optimization for HRES Based EV-Charging	SSRG International Journal of Electrical and Electronics Engineering	Vol. 11 No.3 Year 2024
11	Karna V.R., Reddy K.V.V.	1-dimensional convolutional neural networks for predicting sudden cardiac	IAES International Journal of Artificial Intelligence	Vol. 13 No.1 Year 2024
12	Arul U., Arun V., Rao T.P., Baskaran R., Kirubakaran S., Hussan M.I.T.	Effective Anomaly Identification in Surveillance Videos Based on Adaptive Recurrent Neural Network	Journal of Electrical Engineering and Technology	Vol. 19 No.3 Year 2024
13	Bhagat S.K., Saikia L.C., Babu N.R.	Application of an optimal tilt controller in a partial loading schedule of multi-area power system considering HVDC link and virtual inertia	ISA Transactions	Vol. 146 Year 2024
14	Krishna M.V., Swaroopa K., SwarnaLatha G., Yasaswani V.	Crop yield prediction in India based on mayfly optimization empowered attention-bi-directional long short-term memory (LSTM)	Multimedia Tools and Applications	Vol. 83 No.10 Year 2024

15	Bhagat S.K., Saikia L.C., Babu N.R.	Inertia Emulation Control Strategy of an Accurate Model of HVDC Link in a Multi-area Automatic Generation Control System Integrated Precise Wind Turbine System	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	Vol. 48 No.1 Year 2024
16	Chemboli R., Tej Mandava B., Sai Kodali U., Kumar Taneja A., Tej Mandava B., Sesha Sri Chandana O., Sultana M.S., Yarlagadda B., Prasad K.R.S., Venkata Basaveswara Rao M., Pal M.	A sonochemical approach to 4-substituted pyrrolo[1,2-a]quinoxalines via Cu-catalyzed N-arylation followed by Wang resin/air promoted oxidative cyclization strategy	Tetrahedron Letters	Vol. 136 Year 2024
17	Prasad P.S.S., Nayak S.K., Krishna M.V.	ENHANCED INSIDER THREAT DETECTION THROUGH MACHINE LEARNING APPROACH WITH IMBALANCED DATA RESOLUTION	Journal of Theoretical and Applied Information Technology	Vol. 102 No.3 Year 2024
18	Venkatesan E.P., Krishnaiah R., Prasad K., Medapati S.R., Sree S.R., Asif M., Khan S.A., Linul E.	Compatibility Effects of Waste Cooking Oil Biodiesel Blend on Fuel System Elastomers in Compression Ignition Engines	ACS Omega	Vol. 9 No.6 Year 2024
19	Anitha C., Tandon S., Vamsikrishna M., Arunmozhi M., Chauhan M., Bajaj R.	Role of IoT Intelligence System & Big Data Management to Control Flood Data	International Journal of Intelligent Systems and Applications in Engineering	Vol. 12 No.15 Year 2024
20	Bonthu S., Sree S.R., Prasad M.H.M.K.	Statistical Comparative Analysis of Semantic Similarities and Model Transferability Across Datasets for Short Answer Grading	International Journal of Intelligent Systems and Applications in Engineering	Vol. 12 No.15s Year 2024

21	Ramachandran E., Krishnaiah R., Vellore Gangadharan S., Perumal Venkatesan E., Chandramurthy S.R., Medapati S.R., Shaik S., Saleel C.A., Alwetaishi M.	Multicriteria Decision-Making Technique for Choosing the Optimal Ammonia Energy Share in an Ammonia- Biodiesel-Fueled Reactivity-Controlled Compression Ignition Engine	ACS Omega	Vol. 9 No.5 Year 2024
22	Chaudhary S., Nehra R., Kumar K., Dahiya S., Nandan D., Kumar S.	Dementia Alzheimer's Disease Diagnosis Using Convolutional Neural Networks on Two-Dimensional MRI Slices	Revue d'Intelligence Artificielle	Vol. 38 No.1 Year 2024
23	Lakshmanarao A., Srisaila A., Ravi Kiran T.S., Kumar K.V., Koppireddy C.S.	An efficient smart grid stability prediction system based on machine learning and deep learning fusion model	Indonesian Journal of Electrical Engineering and Computer Science	Vol. 33 No.2 Year 2024
24	Al Khazaleh M., Karumanchi M., Bellum R.R., Subramani A.K.	Experimental Assessment of Geotechnical Properties of Nano-Clay- Stabilized Soils: Advanced Sustainable Geotechnical Solution	International Journal of Geosynthetics and Ground Engineering	Vol. 10 No.1 Year 2024
25	Yaswanth K.K., Sathish Kumar V., Revathy J., Murali G., Pavithra C.	Compressive strength prediction of ternary blended geopolymer concrete using artificial neural networks and support vector regression	Innovative Infrastructure Solutions	Vol. 9 No.2 Year 2024
26	Addepalli T., Sharma M., Kumar M.S., Naveen Kumar G., Kapula P.R., Kumar C.M.	Self-isolated miniaturized four-port multiband 5G sub 6Â GHz MIMO antenna exclusively for n77/n78 & n79 wireless band applications	Wireless Networks	Vol.30 No.2 Year 2024
27	Rokkala U., Suresh G., Ramesh M.R.	Comparative Study of Plasma Spray and Friction Stir Processing on Wear Properties of Mg-Zn-Dy Alloy	Journal of Materials Engineering and Performance	Vol.33 No.4 Year 2024

28	Kolli S., Elangovan M., Vamsikrishna M., Patro P.	AI Fuzzy Based Prediction and Prorogation of Alzheimer's Cancer	EAI Endorsed Transactions on Pervasive Health and Technology	Vol.10 Year 2024
29	Rao Devana V.N.K., Beno A., Alzaidi M.S., Murali Krishna P.B., Divyamrutha G., Awan W.A., Alghamdi T.A.H., Alathbah M.	A high bandwidth dimension ratio compact super wide band-flower slotted microstrip patch antenna for millimeter wireless applications	Heliyon	Vol.10 No.1 Year 2024
30	Ramachandran E., Krishnaiah R., Perumal Venkatesan E., Medapati S.R., Sabarish R., Khan S.A., Asif M., Linul E.	Experimental Studies to Reduce Usage of Fossil Fuels and Improve Green Fuels by Adopting Hydrogen-Ammonia-Biodiesel as Trinary Fuel for RCCI Engine	ACS Omega	Vol.9 No.1 Year 2024
31	Pal R., Amalraj J.L., Kumar V.V., Narayanan G.V.	Fixed Point Results Under Hausdorff Distance in the Fractal Spaces	Communications on Applied Nonlinear Analysis	Vol.31 No.1 Year 2024
32	Pradeep J., Raja Ratna S., Dhal P.K., Daya Sagar K.V., Ranjit P.S., Rastogi R., K V., Rajaram A.	DeepFore: A Deep Reinforcement Learning Approach for Power Forecasting in Renewable Energy Systems	Electric Power Components and Systems	Year 2024
33	Saha A., Dash P., Chiranjeevi T., Ram Babu N.	Implementation of combined hydrogen aqua electrolyser-fuel cell and redox- flow-battery under restructured situation of AGC employing TSA optimized PDN(FOPI) controller	Journal of Taibah University for Science	Vol.18 No.1 Year 2024
34	Varatharajulu M., Duraiselvam M., Krishna Pradeep G.V., Jagadeesh B.	Exploring Epitaxial Grain Growth And Marangoni-Induced Conversion In Columnar Dendrites: A Study Of Inconel 718 Additive Manufacturing Via Direct Laser Energy Deposition	Surface Review and Letters	Year 2024

35	Prasad A.V.R.S., Parige L.S., Babu A.C.S., Kamesh V.V., Medikondu N.R., Das S.	Power-Optimized Information Systems for Mobile Robotics in Physical Processes	Journal of Nano- and Electronic Physics	Vol.16 No.1 Year 2024
36	Ghosh S.S., Chattopadhyay S., Arigela S.H., Kamesh V.V., Das A., Das S.	Expeditious Identification of IGBT Switch Fault in Bidirectional Microgrid Inverter Linked to Distributed Energy Resources	Journal of Nano- and Electronic Physics	Vol.16 No.1 Year 2024
37	Srividya K., Ravichandran S., Thirunavukkarasu M., Veeranjaneyulu I., Satishkumar P., Bharadwaja K., Rao N.S., Subbiah R., Manikanta J.E.	Examination of electrochemical machining parameters for AA6082/ZrSiO4/SiC composite using Taguchi-ANN approach	International Journal on Interactive Design and Manufacturing	Year 2024
38	Rao T.P., Patnala S., Raghavendran C.V., Lydia E.L., Lee Y., Acharya S., Hwang J.-Y.	Oppositional Brain Storm Optimization with Deep Learning Based Facial Emotion Recognition for Autonomous Intelligent Systems	IEEE Access	Vol.12 Year 2024
39	Janumala E., Govindarajan M., Reddi B.V., Manickam M., Venkatesan E.P., Saleel C.A., Alwetaishi M., Shaik S., Nur-E-Alam M., Soudagar M.E.M.	Exploring thermal dynamics of polyaniline-modified paraffin wax phase change material with varied PANI loadings (1â€“4% wt.)	Heat and Mass Transfer/Waerme- und Stoffuebertragung	Year 2024
40	Satyanarayana M.V.N.V., Vijayakrishna B., Srinivasnaik M., Kolagotla R.K., Janaki D.V., Prakash P.	Influence of overlapping friction stir processing on microstructural evolution, texture development, and mechanical performance in Al6061	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	Year 2024

41	Ashok S., Jaffino G., Prabin Jose J., Murthy K.V.S.R.	Local directional gradient pattern histogram and optimization based deep residual network for age related macular degeneration detection	Multimedia Tools and Applications	Year 2024
42	Satyanarayana M.V.N.V., Srinivasnaik M., Reddy B.M., Janardhan G., Janaki D.V., Prakash P., Kumar A.	Exploring Microstructural, Textural, and Mechanical Properties in Bulk-Area Stir Zone Fabrication Through Overlapping Friction Stir Processing with Water Cooling	Arabian Journal for Science and Engineering	Year 2024
43	Singh M.K.	Multimedia application for forensic automatic speaker recognition from disguised voices using MFCC feature extraction and classification techniques	Multimedia Tools and Applications	Year 2024
44	Das Gandhi A.G.M., Sivaraman R., Nagabooshnam N., Verma R.R.	Characterization of heat-treated rice husk Si3N4 bioceramic on cellulosic corn husk fiber-polyester composite	Biomass Conversion and Biorefinery	Year 2024
45	Devana V.N.K.R., Beno A., Devadoss C.P., Sukanya Y., Ravi Sankar C.V., Balamuralikrishna P., Chandrasekhar S., Babu K.V.	A Compact Self Isolated MIMO UWB Antenna with Band Notched Characteristics	IETE Journal of Research	Year 2024
46	Anita S., Rodrigues P., Nagabhooshanam N., Londhe G.V., Salunkhe S.S., Kumar P.D., L N., Bhima Raju P.S.D.	Energy Trading and Optimum Scheduling for Microgrids Using Multiple Agents Based DL Approach	Electric Power Components and Systems	Year 2024
47	Panigrahi B.S., Nagarajan N., Prasad K.D.V., Sathya, Salunkhe S.S., Kumar P.D., Kumar M.A.	Novel nature-inspired optimization approach-based svm for identifying the android malicious data	Multimedia Tools and Applications	Year 2024

48	Singh M.K.	Speaker Emotion Recognition System Using Artificial Neural Network Classification Method for Brain-Inspired Applicationâˆ—	Journal of Circuits, Systems and Computers	Year 2024
49	Venkatesh Kumar C., Chaturvedi A., Arvin Tony A., Srinivas P.V.V.S., Ranjit P.S., Rastogi R., Arun M.R., Rajaram A.	AI-IOT-Based Adaptive Control Techniques for Electric Vehicles	Electric Power Components and Systems	Year 2024
50	Nimmagadda S.M., Penke S., Padarti V.K., Vanka S., Malleswari Nemalikanti S.N.	Design of an edge-truncated patch antenna (ETPA) for near-range vehicular RADAR applications	AIP Advances	Vol.14 No.1 Year 2024
51	Thanikodi S., Ali M.N., Dattu V.S.N.C., Manjunatha L.H., Alnaser I.A., Abdo H.S., Aftab S.	Increased surface quality in aluminum alloy welds via hybrid reinforcement in friction stir processing	International Journal on Interactive Design and Manufacturing	Year 2024
52	Bharathi M., Hussain K., Venkata Veeranjaneyulu I., Bhat S.	Hybrid Energy Storage and Generator Control Monitoring Systems for Renewable Farms and its Applications	International Journal of Intelligent Systems and Applications in Engineering	Vol.12 No.1 Year 2024
53	Maithili K., Prabhakara Rao T., Ambhika C., Divya Y., Supriya B.Y., Sundar R., Rao T., Balajee J.	An Effective Twitter Spam Detection Model using Multiple Hidden Layers Extreme Learning Machine	International Journal of Intelligent Systems and Applications in Engineering	Vol.12 No.1s Year 2024
54	Srinivas R., Bagadi R.K., Rama Reddy T., Praveen N., Aparanjini G.	An efficient hybrid optimization algorithm for detecting heart disease using adaptive stacked residual convolutional neural networks	Biomedical Signal Processing and Control	Vol.87 Year 2024
55	Saurabh P., Velmurugan K., Nagabhooshanam N., Patange G., Mohan Raj G.B., Amarendra C., Kumar Reddy M.V.	Intelligent Controller Design and Fault Prediction for Renewable Energy Sources Using Bi-directional GRU and GEO Methods	Electric Power Components and Systems	Vol.52 No.2 Year 2024

56	Padmaja S.M., Kumar A., Dhanesh L., Kamesh V.V., Geetha H., Ramya D., Raja Sekhar G.G., Saha N.	Stability and Reliability Analysis for Multiple WT Using Deep Reinforcement Learning	Electric Power Components and Systems	Vol.52 No.2 Year 2024
57	Pandey M., Litoriya R., Pandey P.	Investigating and prioritising different issues in wearable apps: An spherical Fuzzy-DEMATEL approach	Multimedia Tools and Applications	Vol.83 No.4 Year 2024
58	Vaidya S.P., Mouli P.V.S.S.R.C.	Robust digital color image watermarking based on compressive sensing and DWT	Multimedia Tools and Applications	Vol.83 No.2 Year 2024
59	Balaji B., Alur V.B., Kotha M.M., Ranjit P.S.	Investigation of nitric oxides emission control using dual-approach exhaust gas recirculation and quaternary blends: performance, combustion, and emission characteristics	International Journal of Environmental Science and Technology	Vol.21 No.1 Year 2024