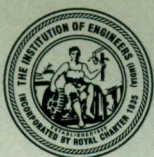


Journal of The Institution of Engineers (India): Series B

Electrical Engineering · Electronics and
Telecommunication Engineering · Computer Engineering



LB
27/12/22



The Institution of Engineers (India)

 Springer

Journal of The Institution of Engineers (India): Series B

Volume 103 · Issue 5 · October 2022

ORIGINAL CONTRIBUTIONS

- A Deep Learning Framework with Cross Pooled Soft Attention for Facial Expression Recognition**
J.D. Bodapati · D.S.B. Naik · B. Suvarna · V. Naralasetti 1395
- A Faulty Line Detection Technique for Series Compensated Line using Synchrophasor Data**
A.V.K. Rao · K.M. Soni · S.K. Sinha · I. Nasiruddin 1407
- A Multi-objective Generalized Teacher-Learning-Based-Optimization Algorithm**
S.D.K. Ram · S. Srivastava · K.K. Mishra 1415
- A Novelty Analysis about an Impact of Tweets and Twitter Bios on Topic Quality Discovery using the Topic Modeling**
R. Muthusami · K. Saritha 1431
- A Novel Approach for Detecting SQL Injection Attacks Using Snort**
A. Gupta · L.S. Sharma 1443
- Compact Capacitor-Loaded Tunable Microstrip Bandpass Filter for Low-Frequency Applications**
P. Duraiswamy 1453
- Deep Learning-Based Trend Analysis on Indian Stock Market in COVID-19 Pandemic Scenario and Forecasting Future Financial Drift**
J. Nayak · P.B. Dash · B. Naik · S. Mohapatra · A.R. Routray 1459
- Design and Area Performance Energy Consumption Comparison of Secured Network-on-Chip with PTP and Bus Interconnections**
Jayshree · G. Seetharaman · D. Pati 1479
- Design and Magnetic Field Simulation Analysis of Radial Gap Adjustable Magneto Rheological Valve**
L. Chen · Y. Jin · Q. Liu · R. Zhang · S. Li 1493
- Design an Optimal ANFIS Controller using Bee Colony Optimization for Trajectory Tracking of a Quadrotor UAV**
B. Selma · S. Chouraqui · B. Selma · H. Abouaïssa 1505
- Design and Performance Analysis of Grid-Connected Solar Photovoltaic System with Performance Forecasting Approach (PFA)**
A.N. Deshmukh · V.K. Chandrakar 1521
- Design of PV System based on 3-Degree of Freedom Fractional Order Tilt-Integral-Derivative Controller with Filter**
A.K. Patra · D. Rath 1533
- Design, Simulation and Analysis of a Novel EBG Structure using Advanced Design System: Implementation and Related Issues**
Y.U. Maheswari · A. Amudha 1549
- Development of ANN and ANFIS Classifier for Betel Leaf Pathogen Detection**
A.K. Dey · M. Sharma · M.R. Meshram 1555
- Free of Cost Energy Conservation through Behavioural Training: an Indian Perspective**
S.S. Ali · R. Tyagi 1563
- Grid-Connected DFIG Driven Wind System for Low Voltage Ride Through Enhancement using Neural Predictive Controller**
R. Hiremath · T. Moger 1577
- Histopathology Breast Cancer Detection and Classification using Optimized Superpixel Clustering Algorithm and Support Vector Machine**
R. Saturi · P. Chand Parvataneni 1589
- Lookup Table based Switching selection for Direct Torque Controlled Multi-phase Asynchronous Machine Drive**
A. Nandawadekar · M.R. Rashmi · K.K. Nipin 1605
- M. Masi Entropy- and Grey Wolf Optimizer-Based Multilevel Thresholding Approach for Image Segmentation**
B.S. Khehra · A. Singh · L. Kaur 1619
- Multi-Objective Optimal Power Flow with efficient Constraint Handling using Hybrid Decomposition and Local Dominance Method**
R.K. Avvari · D.M. Vinod Kumar 1643
- Object Detection Using Computer Vision Methods on Real-Time Lux Sensor Data**
A. Ghosh · P.K. Kundu · G. Sarkar 1659
- One Kind of Embedded System Simulation Platform for Guidance Law**
X. Hu · D. Liu · G. Dai 1665

Package Modeling and Characterization of C-Band 10-Watt High-Power Amplifier Monolithic Microwave Integrated Circuit used in High-Reliability Applications
R. Gugulothu · S. Bhalke · K. Lalkishore · R. Dasari 1677

Performance Analysis of Probabilistic Encryption on FPGA for Wireless Sensor Nodes
G. Leelavathi · K. Shaila · K.R. Venugopal 1687

Performance of MIMO MC-CDMA System with Relay using Adaptive Pilot Channel Estimation
N. Tamilarasan · S.B. Lenin · L. Nithyanandan 1699

Perturb and Observe-Based Control of Four-Leg Grid-Feeding Inverters to Mitigate Voltage Imbalances in Low-Voltage Microgrids
G. Das · D. Hazarika 1707

Phase-Preserved Curvelet Thresholding for Image Denoising
S.K. Panigrahi · S. Gupta 1719

Prediction-Based Optimal Sizing of Battery Energy Storage Systems in PV Integrated Microgrids for Electricity Bill Minimization
S.S.K.R. Vaka · S.K. Matam 1733

Prediction of Life Insurance Premium during Pre-and Post-Covid-19: A Higher-Order Neural Network Approach
S. Das · J. Nayak · S. Nayak · S. Dey 1747

Relative Power Loss Analysis of Poly-Si PV Panels: An Overview in Eastern Indian Climatic Condition
S.B. Pal · K. Das Bhattacharya · D. Mukherjee 1775

Some Critical Treatise on Greening Building Through Retrofitting HVAC&R Systems
S.B. Majumdar · B.K. Choudhury 1781

Sudoku and Optimal Sudoku Reconfiguration Techniques for Power Enhancement of Partial Shaded Solar PV system
S. Mikkili · K.A. Bapurao · P.K. Bonthagorla 1793

Three-Phase Distribution Static Compensator for Power Quality Improvement
D.B. Kanase · H.T. Jadhav 1809

REVIEW PAPER

Analytical Techniques for DC-DC Converters and 1 Φ Inverters: A Comprehensive Review
S.H. Shete · P.M. Joshi 1827

CASE STUDY

Impact Estimation of Security Attack and Mitigation Strategy using Goal-Based Threat Modeling in a Peer-to-Peer Cloud System
S. De · M.S. Barik · I. Banerjee 1845

Further articles can be found at link.springer.com

Indexed/abstracted in *Scopus, Google Scholar, EBSCO, OCLC, Summon by ProQuest*

Instructions for Authors for *J. Inst. Eng. India Ser. B* are available at <http://www.springer.com/40031>