

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

Volume 104 · Issue 6 · December 2023

ORIGINAL CONTRIBUTIONS

A Novel Technique of Ranking of Transmission Lines for Maintenance Prioritization Accounting Annual Outage Time and Operational Severities
P. Singh · R. Arya · L.S. Titare · P. Purey · S.C. Choube · L.D. Arya 1185

An Experimental Study-Based Dynamic Modelling and Control of Thermal Desalination Pilot Plant
A.S. Gandhi · R. Azhagumurugan · Mohanraj · K.M. Sagayam · A.A.A. Jone · D. Pandey · B.K. Pandey 1197

Analysis of Multi-tier Heterogeneous Network Using SIC Technique
A. Gachhadar · R.K. Maharjan · S. Shrestha · N.B. Adhikari 1207

Artificial Neural Network Grid-Connected MPPT-Based Techniques for Hybrid PV-WIND with Battery Energy Storage System
S. Sharma · B.K. Chauhan · N.K. Saxena 1217

Autoencoder-Based Architecture for Identification and Mitigating Phishing URL Attack in IoT Using DNN
S.B. Gopal · C. Poongodi · D. Nanthiya · T. Kirubakaran · B. Kulavishnusravanan · D. Logeshwar 1227

AW-Band Metallic Via-Based Inline Microstrip-to-WR10 Transition for mm-Wave, Satellite and RADAR Applications
A. Varshney · V. Sharma · A. Agarwal 1241

Characterization of Food Waste in An Educational Institute and Energy Recovery Possibilities
D. Roy Barman · S. Bhattacharjee 1257

Compact Conformal UWB Antenna Design with Enhanced Gain Characteristics Using Double-Negative (DNG) Metamaterial Structure for Biomedical Applications
D. Negi · A. Bansal 1273

Low Power and Complexity Implementation of the Modified FFT with a New Bit-Slicing Scheme
S. Qadeer · H. Keerthan · S. Azeemuddin · M.Z.A. Khan 1285

Optimal Gains for Control Voltage and Frequency in Standalone Wind Energy Conversion System
B. Subhash · V. Rajagopal 1303

Wideband Circular Polarized SIW Antenna for Millimeter Wave
H. Kumar · G. Srivastava 1321

REVIEW PAPERS

An Overview of 5G and 6G Networks from the Perspective of AI Applications
A. Khedkar · S. Musale · G. Padalkar · R. Suryawanshi · S. Sahare 1329

Can We Learn from London's Energy and Environmental Issues to Make Indian Cities Pollution-Free and Liveable?
S.S. Ali 1343

Masked Face Detection and Selected Employee Access to Workplaces: A Step Towards Coronavirus Prevention
S. Mandal · M. Saha · B.N. Chatterji 1353

Rate Adaptation Algorithms in IEEE 802.11 Wireless Networks: A Comparative Study
S. Chaudhary · Ratigar · A.K. Mishra · R.K. Singh 1369

Recent Advances in Bio-MEMS and Future Possibilities: An Overview
Y. Pandey · S.P. Singh 1377

ARTICLE OF PROFESSIONAL INTERESTS

Navigating Global Challenges: The Crucial Role of Semiconductors in Advancing Globalization
R.R. Lamsal · A. Devkota · M.S. Bhusal 1389

CORRECTION

Correction: Estimation of Chaos and Coherence in Frontoparietal, Occipital and Temporal Lobes at Pre, Post and During Focal Cerebral Ischemia
S. Bharadwaj 1401

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>