

**Electrical Engineering Department College of**  
**Engineering/King Khalid University**

**1443-1444 Journals**

1. G. P. N. Hakim, M. H. Habaebi, E. A. A. Elsheikh, F. M. Suliman, M. R. Islam, S. H. B. Yusoff, et al., "Levenberg Marquardt artificial neural network model for self-organising networks implementation in wireless sensor network."
2. S. Karimulla and M. H. Mahammad, "Improvement of Power Quality by using Solar based Integrated DVR in."
3. H. J. Rao, N. Nagabhooshanam, D. S. Kumar, S. K. Sahu, R. Verma, G. Jyothirmai, et al., "Dynamic mechanical, ballistic and tribological behavior of luffa aegyptiaca fiber reinforced coco husk biochar epoxy composite."
4. A. G. Alharbi, M. M. Khan, K. Islam, M. N. Alam Shovon, M. I. Abbasi, S. Bourouis, et al., "Comparative Analysis of a Super-Wideband Millimeter Wave Array Antenna for Body-Centric Communications," *International Journal of Antennas and Propagation*, vol. 2022, p. 6963284, 2022.
5. O. Allama, M. H. Habaebi, S. Khan, E. A. A. Elsheikh, and F. M. Suliman, "Modelling and Control Design of a Non-Collaborative UAV Wireless Charging System," vol. 22, p. 7897, 2022 2022.
6. T. Dar, A. Javed, S. Bourouis, H. S. Hussein, and H. Alshazly, "Efficient-SwishNet based system for facial emotion recognition," *IEEE Access*, vol. 10, pp. 71311-71328, 2022.
7. A. Hamza, M. Attique Khan, S.-H. Wang, M. Alhaisoni, M. Alharbi, H. S. Hussein, et al., "COVID-19 classification using chest X-ray images based on fusion-assisted deep Bayesian optimization and Grad-CAM visualization," *Frontiers in Public Health*, vol. 10, p. 1046296, 2022.
8. A. Hamza, M. Attique Khan, S.-H. Wang, A. Alqahtani, S. Alsubai, A. Binbusayyis, et al., "COVID-19 classification using chest X-ray images: A framework of CNN-LSTM and improved max value moth flame optimization," *Frontiers in Public Health*, vol. 10, p. 948205, 2022.
9. S. Kapila, V. Khanna, N. K. Shukla, and M. Basu, "Design of Programmable Analog and Neuromorphic Computing Circuits using Pseudo-Memristive Effect," vol. 20, pp. 3586--3594, 2022 2022.
10. M. M. Khan, K. Islam, M. N. A. Shovon, M. I. Abbasi, S. Bourouis, H. S. Hussein, et al., "Design and Analysis of a Compact Superwideband Millimeter Wave Textile Antenna for Body Area Network," *Wireless Communications and Mobile Computing*, vol. 2022, p. 2986536, 2022.
11. J. Mallick, M. Ahmed, S. D. Alqadhi, I. I. Falqi, M. Parayangat, and e. al., "Spatial stochastic model for predicting soil organic matter using remote sensing data," vol. 37, pp. 413--444, 2022 2022.
12. P. S. Sanoopkumar, P. Muneer, and S. M. Sameer, "A joint equalization and decoding technique for multiuser massive MIMO uplink system with transmitter and receiver RF impairments under doubly selective channels," vol. 16, pp. 6142--6152, 2022 2022.

13. J. Sharma, S. Sharma, V. Kumar, H. S. Hussein, and H. Alshazly, "Deepfakes Classification of Faces Using Convolutional Neural Networks," *Traitement du Signal*, vol. 39, 2022.
14. V. K. Yadav, B. Singh, A. Gacem, K. K. Yadav, G. Gnanamoorthy, T. Alsufyani, et al., "Development of novel microcomposite materials from coal fly ash and incense sticks ash waste and their application for remediation of malachite green dye from aqueous Solutions," *Water*, vol. 14, p. 3871, 2022.
15. U. Zahid, I. Ashraf, M. A. Khan, M. Alhaisoni, K. M. Yahya, H. S. Hussein, et al., "BrainNet: optimal deep learning feature fusion for brain tumor classification," *Computational Intelligence and Neuroscience*, vol. 2022, p. 1465173, 2022.
16. A. Zaman, N. K. Shukla, A. Ali, A. Alhodaib, V. Tirth, Z. H. Kareem, et al., "Effect of Cr Doping on the Structural, Optical and Dielectric Properties of MoO<sub>3</sub> Microrods Synthesized by Sol-Gel Auto Combustion Method," vol. 12, p. 1259, 2022 2022.
17. M. M. Alam, M. R. Islam, M. Koohestani, and E. A. A. Elsheikh, "Prediction of Time Diversity Gain for Earth-to-Satellite Microwave Link Design Based on Real Time Rain Intensity Measurement," vol. 11, pp. 53588--53597, 2023 2023.
18. A. Balla, M. H. Habaebi, E. A. A. Elsheikh, M. R. Islam, and F. M. Suliman, "The Effect of Dataset Imbalance on the Performance of SCADA Intrusion Detection Systems," vol. 23, p. 758, 2023 2023.
19. C. Boulechfar, H. Ferkous, A. Delimi, A. Djedouani, A. Kahlouche, A. Boublia, et al., "Schiff bases and their metal Complexes: A review on the history, synthesis, and applications," vol. 150, 2023 2023.
20. S. Devakirubakaran, R. Verma, B. Chokkalingam, and L. Mihet-Popa, "Performance Evaluation of Static PV Array Configurations for Mitigating Mismatch Losses," vol. 11, pp. 47725--47749, 2023 2023.
21. M. H. Habaebi, Y. Merrad, M. R. Islam, E. A. A. Elsheikh, F. M. Sliman, and M. Mesri, "Extending CloudSim to simulate sensor networks," vol. 99, pp. 3--22, 2023 2023.
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23. M. A. Ismeil, Y. B. Hassan, M. Orabi, A. Alshareef, and H. S. Hussein, "Fulfill Optimum Calibrated Size of LED Driver Components for Solar Street Lighting Fixture by Adjusting the LEDs Connections," *IEEE Access*, vol. 11, pp. 46832-46846, 2023.
24. M. A. Ismeil, H. S. Hussein, M. Farrag, and M. Nasrallah, "Transmission and distribution smart grid system based on self-hailing controllable crowbar," *Ieee Access*, vol. 11, pp. 10149-10157, 2023.
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26. H. Javvaji, G. Madhavi, V. Harika, G. Veeranna, M. K. Patan, and M. H. Mahammad, "Single Input And Multiple Output DC-DC Converter For Electric Vehicle Applications," vol. 101, pp. 4833--4844, 2023 2023.
27. M. A. Khan, H. Arshad, W. Z. Khan, M. Alhaisoni, U. Tariq, H. S. Hussein, et al., "HGRBOL2: human gait recognition for biometric application using Bayesian optimization and extreme learning machine," *Future Generation Computer Systems*, vol. 143, pp. 337-348, 2023.

28. V. Mahalakshmi, A. Balobaid, B. Kanisha, R. Sasirekha, and M. R. Raja, "Artificial Intelligence: A Next-Level Approach in Confronting the COVID-19 Pandemic," vol. 11, p. 854, 2023 2023.
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32. A. Saeed, A. Ali, A. Saeed, I. Hassan, N. K. Shukla, M. A. Muqheet, et al., "Design, Synthesis, and Testbench Verification of High Order Decoder Circuits Using VerilogHDL," vol. 71, pp. 520--522, 2023 2023.
33. A.-N. Sharkawy, M. M. Ali, H. H. Mousa, A. S. Ali, G. T. Abdel-Jaber, H. S. Hussein, et al., "Solar PV power estimation and upscaling forecast using different artificial neural networks types: Assessment, validation, and comparison," *IEEE Access*, vol. 11, pp. 19279-19300, 2023.
34. P. Sheeba, P. Muneer, V. P. Thafasal Ijyas, M. Usman, and e. al., "Equalization techniques for SC-FDMA systems under radio imbalances at both transmitter and receiver," vol. 129, pp. 2563--2581, 2023 2023.
35. D. K. Singh, A. Singh, A. Gacem, S. Kashyap, V. K. Yadav, K. K. Yadav, et al., "Multiple Site Dissimilarities of Herbaceous Species Due to Coal Fly Ash Dumping Based Soil Heavy Metal Toxication," *Toxics*, vol. 11, p. 90, 2023.
36. R. K. Singh, M. Shindhe, P. Rawat, A. K. Srivastava, G. K. Singh, R. Verma, et al., "The Effect of Various Contaminants on the Surface Tribological Properties of Rail and Wheel Materials: An Experimental Approach," *Coatings*, vol. 13, p. 560, 2023.
37. S. Soundararajan, C. Kurangi, A. Basha, J. Uthayakumar, K. Kalaivani, M. Dhamodaran, et al., "Metaheuristic Optimization Based Node Localization and Multihop Routing Scheme with Mobile Sink for Wireless Sensor Networks," vol. 128, 2023 2023.
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## **1443-1444 Conferences**

1. A. M. O. A. Hamdan and M. A. Ismail, "Hosting Capacity Enhancement For Photovoltaic Systems At Various Conditions Based On Volt Var Control," in *23rd International Middle East Power Systems Conference (MEPCON)*, 2022, pp. 13-15.
2. M. A. Ismeil, A. Abdelaleem, M. Nasrallah, and E. E. M. Mohamed, "Performance Analysis of a Novel High Gain Three-phase Split Source Inverter," in *2022 23rd International Middle East Power Systems Conference (MEPCON)*, 2022.
3. M. L. Moses, T. Perarasi, M. Ramkumar Raja, and L. Lino, "Energy Efficient QoS Aware Machine Learning Model for Scheduling Users in NOMA Heterogeneous Networks," in *2022 Smart Technologies, Communication and Robotics (STCR)*, 2022, pp. 1--5.

4. M. Zaidi, I. Bouazzi, and V. P. T. Ijyas, "Fast wsn localization method based on three Anchors and simple geometric technique: Mathematical modeling," in 2022 IEEE 9th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT), 2022, pp. 499--502.
5. I. Hamdan, A. Alfouly, and M. A. Ismeil, "A literature review on hosting capacity methodologies and inverter control technologies for photovoltaic system," in 2023 IEEE Conference on Power Electronics and Renewable Energy (CPERE), 2023, pp. 1--7.
6. M. Zaidi, K. A. Alhamdi, and I. R. Bouazzi, "Impact of Geo-positioning Information in Limiting Forest Fire Damage," in IOT with Smart Systems, 2023, pp. 239--248.

## **1443-1444 Books/Chapters**

1. M. L. Moses, T. Perarasi, L. Lino, and M. Ramkumar Raja, "Machine Learning, Blockchain Technologies and Big Data Analytics for IoTs: Methods, technologies and applications," 2022.
2. D. Gura, E. Berkova, A. Panyutischeva, M. Zaidi, and G. Turk, "Overview of the DJI ZENMUSE L1 Laser Scanner for Spatial Planning Purposes," in Digital and Information Technologies in Economics and Management, ed: Springer, 2023.
3. S. A. Mohammed and M. R. Mahmood, "Security in Ambient Intelligence and Internet of Things," in Ambient Intelligence and Internet of Things: Convergent Technologies, ed: Scrivener Publishing (WILEY), 2023, pp. 81--124.

## **1443-1444 Patents**

1. M. Mano raja paul, r. Kannan, m. Ramkumar raja , a. Gokula chandar ,k. Yogeshvaran "crowd estimation in bus stops for public transport and departure control in bus transport service" 202341014068, indian patent office,24/03/2023
2. Neeraj Kumar Shukla, et al., (UK Patent): "IoT Enabled Continuous Glucose Monitoring Device". Design Application Number: 6278355, Registration/Filing Date: 26 April 2023, Grant Date: 04 May 2023.