Publications in Journals :(International/National)

1. Arvind Kumar, S. S. Solanki, Mahesh Chandra (2022), "Effect of background Indian music on performance of speech recognition models for Hindi databases", International Journal of Speech Technology, pp.1-12.,https://doi.org/10.1007/s10772-021-09948-3.

2. Manish Mathew Tirkey and Nisha Gupta (2022), "A Novel Ultrathin Checkerboard Inspired Ultrawideband Metasurface Absorber," in IEEE Transactions on Electromagnetic Compatibility, vol. 64, no. 1, pp. 66-74, *DOI: 10.1109/TEMC.2021.3091767*

3. Manish Mathew Tirkey and Nisha Gupta (2021), "Broadband Polarization-Insensitive Inkjet-Printed Conformal Metamaterial Absorber," IEEE Transactions on Electromagnetic Compatibility, Volume: 63, Issue: 6, pp. 1829 – 1836, *DOI: 10.1109/TEMC.2021.3089830.*

4. A. K. Tiwary and Nisha Gupta (2021), "Printed Band-Stop Filter for Mitigation of Electromagnetic Interference." Electrica, vol. 21, no. 3, pp. 298-304, *DOI: 10.5152/electrica.2021.21018*

5. Sheelu Kumari, Vibha Rani Gupta and Shweta Srivastava (2021), "A Novel Feeding Technique for Folded Substrate Integrated Waveguide", International Journal of Electronics and Communications (AEUE), Vol 138, DOI:10.1016/j.aeue.2021.153852, ISSN: 1434-8411

6. S. Pal, S. Mohapatra, W. -H. Ki and A. Islam (2021), "Soft-Error-Aware Read-Decoupled SRAM With Multi-Node Recovery for Aerospace Applications," in IEEE Transactions on Circuits and Systems II: Express Briefs, vol. 68, no. 10, pp. 3336-3340, doi: 10.1109/TCSII.2021.3073947. https://doi.org/10.1109/TCSII.2021.3073947

7. S. Pal, S. Mohapatra, W. -H. Ki and A. Islam (2021), "Soft-Error-Immune Read-Stability-Improved SRAM for Multi-Node Upset Tolerance in Space Applications," in IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 68, no. 8, pp. 3317-3327, doi: 10.1109/TCSI.2021.3085516. https://doi.org/10.1109/TCSI.2021.3085516

8. S. Pal, D. D. Sri, W. -H. Ki and A. Islam (2021), "Radiation-hardened read-decoupled low-power 12T SRAM for space applications," in International Journal of Circuit Theory and Applications, vol. 49, pp. 3583–3596, Publisher: Wiley. DOI: 10.1002/cta.3093. https://doi.org/10.1002/cta.3093

9. S. Pratap Singh, Shekhar Singh, Amit Kumar, Ashish Pandey, Lakshmanan M, Noor Mohammed V and Sanjay Kumar (2022), "Generic MGF-based tight approximation for the error rate analysis" International Journal of Communication Systems, Wiley Open Access Journal, pp 1-18, https://doi.org/10.1002/dac.5127.

10. Sanjay Kumar (2022), "6G Mobile Communication Network: Key Services and Enabling Technologies" Journal of ICT Standardization, Issue1, Vol. 10.

11. Ravi Teja Yekula, Monalisa Pandey and Aminul Islam (2022), "A Highly Reliable Radiation Tolerant 13T SRAM Cell for Deep Space Applications," in Microelectronics reliability, vol. 1330, pp. 1–14, Publisher: Elsevier, DOI: https://doi.org/10.1016/j.microrel.2022.114527

12. Soumitra Pal, Subhankar Bose, and A. Islam (2022), "Design of Memristor Based Low Power and Highly Reliable ReRAM Cell," in Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems. vol. 28, no. 3, pp. 793 - 807, Publisher: Springer. DOI: https://doi.org/10.1007/s00542-019-04582-1

13. Soumitra Pal, Subhankar Bose, and A. Islam (2022), "Design of SRAM Cell for Low Power Portable Healthcare Applications," in Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems, vol. 28, no. 3, pp. 833–844, Publisher: Springer. DOI: https://doi.org/10.1007/s00542-020-04809-6

14. Shashank Kumar Dubey, and Aminul Islam (2022), "Al0.30Ga0.70N /GaN MODFET with triple-teeth metal for RF and high-power applications," in Physica Scripta, vol. 97, No. 3, pp. 034003, Publisher: IOP publishing Ltd. DOI:10.1088/1402-4896/ac50c3, url: https://doi.org/10.1088/1402-4896/ac50c3

15. Shashank Kumar Dubey, Meena Mishra, and Aminul Islam (2022), "Characterization of AlGaN/GaN Based HEMT for Low Noise and High Frequency Application" in International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, vol. 35, no. 1, pp. 1–12, Publisher: Wiley. DOI: https://doi.org/10.1002/jnm.2932

16. Satyajit Mahapatra, Sitanshu Sekhar Sahu (2021), "Integrating Resonant Recognition Model and Stockwell Transform for Localization of Hotspots in Tubulin" IEEE Transactions on NanoBioscience, Vol. 20 (3).

17. Biswajit Karan, Sitanshu Sekhar Sahu, Juan Rafael Orozco-Arroyave and Kartik Mahto (2021), " Non-negative matrix factorization-based time-frequency feature extraction of voice signal for Parkinson's disease prediction," Computer Speech and Language, Vol.69, 101216.

18. Satyajit Mahapatra, Sitanshu Sekhar Sahu (2021), "Improved prediction of protein-protein interaction using hybrid of functional-link Siamese neural network and gradient boosting machines", Briefings in Bioinformatics, Vol. 22(6).

19. Vikas Pathak, Satyasai Jagannath Nanda, Amit Mahesh Joshi, Sitanshu Sekhar Sahu (2021), "FPGA implementation of high-speed tunable IIR band pass notch filter for identification of hot-spots in protein", International Journal of Circuit Theory and Applications.

20. Satyajit Mahapatra, Sitanshu Sekhar Sahu (2021), "ANOVA-particle swarm optimization-based feature selection and gradient boosting machine classifier for improved protein–protein interaction prediction", Proteins: Structure, Function, and Bioinformatics.

21. S. Raveesh, Vimal Kumar Singh Yadav and Roy Paily (2021), "CuO Single-Nanowire Based White-Light Photodetector," IEEE Electron Device Letters, vol. 42, no. 7, pp. 1021-1024, DOI: 10.1109/LED.2021.3081627.

22. Thomas T Daniel, Vimal Kumar Singh Yadav, Gayatri Natu and Roy Paily (2021), "Fully Printed Inorganic Schottky Diode", IEEE Electron Device Letters, vol. 42, no. 8, pp. 1212-1215, DOI: 10.1109/LED.2021.3086849

23. Thomas T Daniel, Vimal Kumar Singh Yadav, Emlin Elsa Abraham, and Roy Paily (2022), "Carbon Monoxide Sensor Based on Printed ZnO", IEEE Sensors Journal, vol. 22, no. 11, pp. 10910 - 10917, DOI: 10.1109/JSEN.2022.3166811.

24. Raveesh Siddaramaiah, Vimal Kumar Singh Yadav, Ayan Pal, and Roy Paily Palathinkal (2022), "High-performance CuO nanowire printed devices for visible light sensing and switching characteristics." Materials Letters, pp. 132300.

25. Biswas, Nilanjan, Goutam Das, and Priyadip Ray (2022), "Buffer-Aware User Selection and Resource Allocation for an Opportunistic Cognitive Radio Network: A Cross-Layer Approach." IEEE/ACM Transactions on Networking.

26. Deril Raju, Lalitha Eleswarapu, Muppidi Sai Pranav and Rupesh Kumar Sinha (2022), "Multi-level image security using elliptic curve and magic matrix with advanced encryption standard", Multimedia Tools and Applications, https://doi.org/10.1007/s11042-022-12993-y.

27. Chandreyee Sarkar, D. Guha and C. Kumar (2021), "Source of Cross-Polar Fields in a Triangular Patch: Insight and Experimental Proof," in IEEE Antennas and Wireless Propagation Letters, vol. 20, no. 12, pp. 2437-2441,doi: 10.1109/LAWP.2021.3114149.

28. Srivastava, S., & Dash, P. P. (2021), "Coefficient-Scaling-Based Fair Power Allocation for Multi-User Power-Domain Non-orthogonal Multiple Access Network" Journal of Circuits, Systems and Computers, vol. 30, Issue 16, pp 2150303.

29. Nath P., Biswas A., Nath V.(2021) Performance optimization of solar cells using non-polar, semi-polar and polar InGaN/GaN multiple quantum wells alongside AlGaN blocking layers. Microsystem Technologies, vol. 27, issue-01, pp.301-306. Springer Berlin Heidelberg, Online ISSN:1432 1858.

30. Sarah Asheer, Sanjeet Kumar (2022), "Lifetime enhancement through event-based data reporting and transmission in a wireless sensor network", Microsystem Technologies, Springer, Vol.28, 601–613. https://doi.org/10.1007/s00542-021-05231-2

31. Ojha, M.K., Mukul, M.K. (2021), "A Novel Approach Based on EMD to improve the Performance of SSVEP Based BCI System". Wireless Personal Communications, Vol.: 118, PP: 2455-2467 [SCIE]

32. Ojha, M.K., Mukul, M.K. (2021), " Detection of Target Frequency from SSVEP Signal Using Empirical Mode Decomposition for SSVEP Based BCI Inference System". Wireless Personal Communications, Vol.: 116, PP: 777-789 [SCIE]

33. Sunil Kumar, Somnath Sengupta (2022), "Efficient detection of multiple FBG wavelength peaks using matched filtering technique", Optical and Quantum Electronics, Springer, vol. 54, p. 89 (14 pp.).

34. Deepti Gola, Yograj Singh Duksh, Balraj Singh and Pramod Kumar Tiwari (2022), "Self-heating and Negative Differential Conductance Improvement by Substrate Bias Voltage in Tri-gate Junctionless Transistor." Silicon, vol. 14, pp. 2219–2224. https://doi.org/10.1007/s12633-021-01019-1

Publications in Proceedings: (International/National)

1. D. Prakash and N. Gupta (2021), "Metamaterial Inspired Soil Moisture Sensor Using Machine Learning Approach for Accurate Prediction," 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), pp. 642-646, doi: 10.1109/ICAC3N53548.2021.9725509.

2. Avinash and N. Gupta (2021), "Parametric Study of an Ultrathin Flexible Wideband Absorber for K Band," 2021 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC), pp. 1-6, doi: 10.1109/ICMNWC52512.2021.9688395.

3. Neelu, Nikhilesh Kumar, Nisha Gupta, and Mahmood Tabaddor (2022), "Effects of Tilting ESD Gun on Discharging Current", In International Conference on Computational Techniques and Applications, pp. 369-376. Springer, Singapore.

4. Sakshi Kumari, Vibha Rani Gupta (2021), "Evaluation of Specific Absorption Rate of Microstrip and Monopole Patch Antenna on Human Forearm", International Conference on Communication and Electronics Systems ICCES 2021- 8-10, July 2021

5. N. Sharan, S. K. Ghorai and A. Kumar (2021), "PAPR Reduction using blend of Precoder and μ-law Compander in HACO System," 2021 IEEE 2nd International Conference on Applied Electromagnetics, Signal Processing, & Communication (AESPC), 2021, pp. 1-5, doi: 10.1109/AESPC52704.2021.9708501.

6. N. Sharan, S. K. Ghorai and A. Kumar (2022), "PAPR reduction using a Precoder and Compander combination in a NOMA-OFDM VLC system," 2022 2nd International Conference on Artificial Intelligence and Signal Processing (AISP), 2022, pp. 1-4, doi: 10.1109/AISP53593.2022.9760659.

7. Rohith Sai V,Biswajit Karan, Garima Thakur, Ashutosh Rath, Sitanshu Sekhar Sahu (2021), "Heart Sound Abnormality Detection using Wavelet Packet Features and Machine Learning", IEEE International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA), pp:310-314, Sept. 2021

8. Vikas Pathak, Satyasai Jagannath Nanda, Amit Mahesh Joshi, Sitanshu Sekhar Sahu (2021), "FPGA Implementation of High Speed Anti-notch Lattice filter for Exon Region Identification in Eukaryotic Genes" IEEE Computer Society Annual Symposium on VLSI, August 2021

9. Abhishek Kumar, Dileep Kumar Upadhyay (2021), "A Compact Planar Quint-Passband Lowpass Bandpass Filter Using Open-End Folded Stub CRLH-TLs", 2nd International conference on Advanced Communication Technologies and Signal Processing, (IEEE ACTS-2021)/Virtual conference, NIT, Rourkela, pp. 1-5,

10. Abhishek Kumar, Dileep Kumar Upadhyay (2022) " CRLH-TL Based Compact Planar Dual Band Lowpass-Wide Bandpass Filter" 7th International Conference on Microelectronics, Computing & Communication Systems (MCCS-2022).

11. Himadri Nirjhar Mandal, Soumya Sidhishwari (2021), "Investigation of Gaussian Apodized FBG Properties for the Analysis of Building Materials", International Conference on Circuits, Controls and Communications (CCUBE), at RNSIT on December 23-24, 2021. (IEEE). ISBN No:978-1-6654-0203-3   DOI: 10.1109/CCUBE53681.2021.9702729

12. Himadri Nirjhar Mandal, Soumya Sidhishwari (2021), "Design of a Gaussian Apodized Uniform FBG Sensor for Multi-parameter Sensing and Predictive Analysis using Machine Learning", Third International Conference on Innovative Trends in Electronics Engineering (ICITEE), 14 December 2021. Royal Book Publishing, pp 173-182. ISBN: 9789391131753

13. Arghyadip Roy, Nilanjan Biswas (2022), "GoPro: a Low Complexity Task Allocation Algorithm for a Mobile Edge Computing System", IEEE NCC, 2022

14. Joshua Roy Palathinkal, Sumit Majumder, Thomas T Daniel, Vimal Kumar Singh Yadav, Roy Paily Palathinkal (2022), "Fabrication of SeFe2O3-based Schottky diode using Cantilever-based Ag-contact Printing Technology," 33rd SEMI Advanced Semiconductor Manufacturing Conference (ASMC 2022), New York, USA, May 2-5, 2022. (Published). DOI:10.1109/ASMC54647.2022.9792480.https://ieeexplore.ieee.org/abstract/document/9792480.

15. Chandreyee Sarkar, D. Guha and C. Kumar (2021), "Millimeter Wave Subarray Based on an Innovative Design to Attain Improved Characteristics Uniformly Across All Radiation Planes," 2021 IEEE Indian Conference on Antennas and Propagation (InCAP), 2021, pp. 299-300, DOI: 10.1109/InCAP52216.2021.9726311, Electronic ISBN:978-1-6654-0110-4

16. Saurabh Srivastava, Prajna Parimita Dash (2021), "Non orthogonal multiple access: Procession towards B5G and 6G", 2ND IEEE International Conference on Applied Electromagnetics, Signal Processing and Communication, KIIT, Bhubaneswar, 26-28 November 2021.

17. Kumar, D., Sanjeet Kumar (2022), "A Center of Gravity-Based Novel Clustering Algorithm for Energy-Efficient Wireless Sensor Network", In: Mandal, J.K., Hsiung, PA., Sankar Dhar, R. (eds) Topical Drifts in Intelligent Computing. ICCTA 2021. Lecture Notes in Networks and Systems, vol 426. Springer, Singapore. https://doi.org/10.1007/978-981-19-0745-6_48

18. Raj, U., Mukul, M.K., "Home Automation Using Brain–Computer Interface", In: Nath, V., Mandal, J.K. (eds) Microelectronics, Communication Systems, Machine Learning and Internet of Things. Lecture Notes in Electrical Engineering, vol 887. Springer, Singapore. https://doi.org/10.1007/978-981-19-1906-0_52

19. Anisha Kiran and Gajendra Kant Misha (2021),"Flexible Broadband Dielectric Resonator Antenna for Wearable Applications", IEEE Second International Conference on Electronics and Sustainable Communication Systems (ICESC). Coimbatore, 4-6 August 2021. Doi: 10.1109/ICESC51422.2021.9532960

20. Anisha Kiran and Gajendra Kant Misha (2022)," Wearable Dielectric Resonator Antenna for Bluetooth Applications", IEEE First International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT).: Trichy, India, 16-18 February 2022, Doi :10.1109/ICEEICT53079.2022.9768502
21. P. Nath Suman and G. Kant Mishra (2022), "An Aperture Fed Frequency Reconfigurable Patch Antenna For X-Band Applications," 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), 2022, pp. 1-3, doi: 10.1109/ICAECT54875.2022.9808075.

Book:

1. Sanjay Kumar, "Bus, Ek Kadam Aur". Published by Parikalpna, New Delhi, Feb 2022. ISBN: 978-81-951640-0-4.
2. Book Title: Proceedings of the Fourth International Conference on Microelectronics, Computing & Communication Systems(MCCS-2019) Editors: Vijay Nath & J.K. Mandal Series Title: Lecture Notes in Electrical Engineering, Publisher: Springer Singapore, Copyright Holder: Springer Nature Singapore Pte Ltd. Year of Publication: 2021, DOI: 10.1007/978-981-15-5546-6, e-Book ISBN 978-981-15-5546-6

   Link:https://www.springer.com/us/book/9789811555459,Indexed:Scopus
3. Book Title: Nanoelectronics, Circuits & Communication Systems (Proceeding of NCCS-2019) Editors: Vijay Nath & J.K. Mandal, Series Title: Lecture Notes in Electrical Engineering, Publisher: Springer Singapore, Copyright Holder: Springer Nature Singapore Pte Ltd. Year of Publication: 2021, DOI: 10.1007/978-981-15-7486-3

   e-BookISBN978-981-15-7486-3Link: ttps://www.springer.com/gp/book/9789811574856 Indexed: Scopus

Chapter(s) in Edited Book

1. Aakansha, G. S. Namith, A. Dinesh, A. Sai Ram, S. K. Dubey and A. Islam, "A Highly Reliable and Radiation-Hardened Majority PFET-Based 10T SRAM Cell," In: Biswas A., Saxena R., De D. (eds) Microelectronics, Circuits and Systems. Lecture Notes in Electrical Engineering, vol 755. Springer, Singapore. https://doi.org/10.1007/978-981-16-1570-2_11
2. Pawan Kumar Sahu, Sparsh Koushik, Shashank Kumar Dubey and Aminul Islam, "Radiation Tolerant Memory Cell for Aerospace applications," In: Biswas A., Saxena R., De D. (eds) Microelectronics, Circuits and Systems. Lecture Notes in Electrical Engineering, vol 755. Springer, Singapore. https://doi.org/10.1007/978-981-16-1570-2_10
3. Sparsh Koushik, Pawan Kumar Sahu, Suraj Kumar, Shashank Kumar Dubey & Aminul Islam, "Radiation Immune SRAM Cell for Deep Space Applications," In: Biswas A., Saxena R., De D. (eds) Microelectronics, Circuits and Systems. Lecture Notes in Electrical Engineering, vol 755. Springer, Singapore. https://doi.org/10.1007/978-981-16-1570-2_14
4. A.K.Tiwary, P.K.Singh, A.K.Tiwari, R.Kumar (2022). Different Energy Management Strategies for Clean Energy. In: Pal, D.B., Jha, J.M. (eds) Sustainable and Clean Energy Production Technologies . Clean Energy Production Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-16-9135-5_2

5. Prashant Kumar Singh, Shashank Kumar Singh, Sandipan Mallik, Dilip Kumar Choudhary, Anjini Kumar Tiwary. (2022). A Survey on Antennas for IIOT applications. In: Sharma, A., Jangir, S.K., Kumar, M., Choubey, D.K., Shrivastave, T., Balamurugan, S. (eds). Industrial Internet of Things: Technologies and Research Directions. Springer. Singapore.

6. Singh, P.K., Singh, S.K., Tiwary, A.K., Ahmad, G., Mallik, S., Ali, S.S. (2022). Design of Novel Radial Folded Microstrip Patch Antenna for WiMAX Application. In: Mandal, J.K., Hsiung, PA., Sankar Dhar, R. (eds) Topical Drifts in Intelligent Computing. ICCTA 2021. Lecture Notes in Networks and Systems, vol 426. Springer, Singapore. https://doi.org/10.1007/978-981-19-0745-6_32

7. Krishna, H., Singh, P.K., Sharma, D., Tiwary, A.K. (2022). Dual-Band Stop Filter with Controllable Stop-Bands Based on Defect in Shunt Radial Stub. In: Mandal, J.K., Hsiung, PA., Sankar Dhar, R. (eds) Topical Drifts in Intelligent Computing. ICCTA 2021. Lecture Notes in Networks and Systems, vol 426. Springer, Singapore. https://doi.org/10.1007/978-981-19-0745-6_18

8. KM Neeshu, Tiwary, A.K. (2022). Gain Enhancement for Metamaterial Loaded UWB Antenna Using TSCCR AMC. In: Sivasubramanian, A., Shastry, P.N., Hong, P.C. (eds) Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering, vol 792. Springer, Singapore. https://doi.org/10.1007/978-981-16-4625-6_76

9. Prashant Kumar Singh, Shashank Kumar Singh, Gufran Ahmad, Palash Das, Sandipan Mallik, Dilip Kumar Choudhary, Hare Krishna, Shivendra Pratap Singh & Anjini Kumar Tiwary. (2022). Design and Simulation of Microstrip Antenna for Terahertz Applications. In: Acharyya, A., Biswas, A., Das, P. (eds) Generation, Detection and Processing of Terahertz Signals. Lecture Notes in Electrical Engineering, vol 794. Springer, Singapore. https://doi.org/10.1007/978-981-16-4947-9_18

10. Sudhansu Kumar Mishra, Prajna Parimita Dash, Sitanshu Sekhar Sahu, Ashutosh Rath, A Comparative Performance Assessment of a Set of Adaptive Median Filters for Eliminating Noise from Medical Images, Book: Deep Learning, Machine Learning and IoT in Biomedical and Health Informatics, Pages1-17, ISBN: 9780367548445, CRC Press, Taylor & Francis, Feb. 2022

11. Biswajit Karan, Animesh Sharma, Sitanshu Sekhar Sahu, Sudhansu Kumar Mishra, Deep Neural Network for Parkinson Disease Prediction Using SPECT Image, Book: Deep Learning, Machine Learning and IoT in Biomedical and Health Informatics, Pages1-15, ISBN: 9780367548445, CRC Press, Taylor & Francis, Feb. 2022

12. Bhardwaj M., Aradhana, Kumar A., Kumar P., Nath V. (2021) Digital Implementation of Sigmoid Function in Artificial Neural Network Using VHDL. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_6

13. Sateesh V.A., Surshetty S.K., Goel V., Prasad D., Nath V., Pal S. (2021) Designing of Low-Noise Amplifier and Voltage-Controlled Oscillator for Satellite Receiver in Ku Band. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_58

14. Arya A., Shekhar S., Priyam A., Nath V. (2021) Design of Energy Harvestor Using Piezoelectric Material. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_60

15. Sarkar S., Kerketta A., Nath V. (2021) Kisaan Seva—A Web site for Serving the Farmers. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems.

Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_61

16. Datta K., Pal S., Nath V. (2021) Design of a 2–30 GHz Low-Noise Amplifier: A Review. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_64

17. Sahoo S., Gupta Y., Nath V., Pal S. (2021) Ad Hoc Network Using UAVs in Indian Farms: A Review. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_65

18. Ponugoti J.S., Karuturi S.S.T., Nath V. (2021) Web Application Based on PHP for Farmers. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_66

19. Asati P., Koushik S., Nath V. (2021) Website Development for Trading Between Farmers and Government. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_69

20. Jahagirdar S., Manglani N., Rai S., Nath V. (2021) Telemetry-Based System for Data Acquisition of Agricultural Practices in Rural Areas. In: Nath V., Mandal J. (eds) Nanoelectronics, Circuits and Communication Systems. Lecture Notes in Electrical Engineering, vol 692. Springer, Singapore. https://doi.org/10.1007/978-981-15-7486-3_70

21. Prakash O., Ankit K., Kumar R., Nath V. (2021) Design and Characterization of DC-to-DC Converters Using Active Inductor. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_73

22. Sanjay Kumar S., Goel V., Prasad D., Nath V. (2021) A 0.48 mW High Performance 4-Bit Flash ADC for System-on-Chip Applications in 90 nm CMOS Technology. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_78

23. Ray M.K., Surshetty S.K., Goel V., Prasad D., Nath V. (2021) Design of 4-Bit Multiplexer-Based Encoder for Analog to Digital Converter. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_79

24. Datta K., Prasad D., Surshetty S.K., Goel V., Nath V. (2021) Design of a 4-Bit Wallace Tree Encoder for Flash ADC in 90 Nm CMOS Technology. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_80

25. Sateesh V.A., Kumar A., Priyadarshi R., Nath V. (2021) A Novel Deployment Scheme to Enhance the Coverage in Wireless Sensor Network. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_82

26. Sateesh V.A., Dutta I., Priyadarshi R., Nath V. (2021) Fractional Frequency Reuse Scheme for Noise-Limited Cellular Networks. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_83

27. Anand J., Chowdhury S., Prasad D., Nath V. (2021) Smart Communication in Coal Mines. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_86 r

28. Ray M.K., Oraon A., Kumari R., Shreya S., Prasad D., Nath V. (2021) FPGA-Based Smart Irrigation System. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_87

29. Patel R., Sinha N., Raj K., Prasad D., Pandey A., Nath V. (2021) Smart Healthcare System Using IoT. In: Nath V., Mandal J.K. (eds) Proceedings of the Fourth International Conference on Microelectronics, Computing and Communication Systems. Lecture Notes in Electrical Engineering, vol 673. Springer, Singapore. https://doi.org/10.1007/978-981-15-5546-6_88

30. Kumar, D., Sanjeet Kumar (2022). A Center of Gravity-Based Novel Clustering Algorithm for Energy-Efficient Wireless Sensor Network. In: Mandal, J.K., Hsiung, PA., Sankar Dhar, R. (eds) Topical Drifts in Intelligent Computing. ICCTA 2021. Lecture Notes in Networks and Systems, vol 426. Springer, Singapore. https://doi.org/10.1007/978-981-19-0745-6_48