

Conference Papers

2022

1. Ramesh Potharaju and Bijit Choudhuri, "Evolution of tunnel field effect transistor and scope in low power applications: A detailed review" in 2nd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS 2022) at NIT Silchar, Assam, India during 29-31 Jan 2022.
2. Saidulu, N., Monsley, K. A., Yadav, K. S. and Laskar, R.H. Exploration of Deep Convolutional Neural Networks via Transfer Learning for Handwritten, IC2NT 2022, NIT Raipur (Accepted)
3. Yadav, K. S., Ahmed, N., Monsley K. A., Barlaskar, S.A., Laskar, R.H. "A holistic approach towards detection, tracking and recognition of face". IEEE SPICES 2022 (Accepted)
4. Monsley, K. A., Yadav, K. S. and Laskar, R.H. "Self Co-Articulation Removal in Mid-Air Gesticulated Trajectories via a Sequence-To-Sequence Based Classification Approach Using LSTM", DELCON 2022 (Accepted).
5. Malvika, Bijit Choudhuri and Kavicharan Mummaneni, Performance analysis of MFIS NCFET for various channel material, 2nd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS 2022) at NIT Silchar, Assam, India during 29-31 Jan 2022.
6. Anusmita Kakati, Ganaraj Shankar, Koushik Guha and M Kavicharan, "Design and Analysis of MEMS Varactor for Ka Band Applications" 2nd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS 2022) at NIT Silchar, Assam, India during 29-31 Jan 2022.
7. Jagritee Talukdar, Pankaj Saksena and Kavicharan Mummaneni, "Design and Analysis of Non-Uniform Body with Dual Material FET based Digital Inverter" 2nd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS 2022) at NIT Silchar, Assam, India during 29-31 Jan 2022.
8. Pulumati Chidananda, Chappa Vinay Kumar, Rajan Singh and Mummaneni Kavicharan, "Optimized RTL design of a vending machine through FSM using Verilog HDL" 2nd International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS 2022) at NIT Silchar, Assam, India during 29-31 Jan 2022.
9. S. P. Malik, A. K. Yadav, and R. Khosla, Design and Simulation of Si & Ge Double Gate Tunnel Field Effect Transistors with High- κ Al₂O₃ gate dielectric: DC and RF Analysis, 2nd International Conference on Micro and Nanoelectronics Devices, Circuits and Systems, NIT Silchar 2022.
10. Samadrita Das, Trupti Ranjan Lenka, Fazal A Talukdar, Ravi Teja Velpula and Hieu Pham Trung Nguyen, Carrier Transport and Radiative Recombination Rate Enhancement in GaN/AlGaIn Multiple Quantum Well UV-LED using Band Engineering for Light Technology, 2nd International Conference on Micro/Nanoelectronics Devices, Circuits and Systems (MNDCS-2022), 29-31 Jan 2022, NIT Silchar [accepted]
11. Debanjali Sarkar, Taimoor Khan, Fazal Ahmed Talukdar, Sembiam R. Rengarajan, 'Prior Knowledge based Inverse Parametric Modeling of UWB Band-Notched

Antennas', 2022 USNC-URSI National Radio Science Meeting (NRSN), January 4-8, 2022 in Boulder, CO, USA.

12. R. Mayengbam, S.K. Tripathy, "First principles investigation of electronic and optical properties of cubic perovskite $\text{CH}_3\text{NH}_3\text{PbX}_3$ ($X=\text{I}, \text{Cl}$)" *Mat. Today Proc.* 48 (2022) 633-635 (SCOPUS)

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1. S. Solanki, D. S. Gurjar, P. K. Sharma, S. K. Sharma, and S. Chatzinotas, "On the secrecy-reliability performance trade-off for NOMA-enabled 5G mmWave networks," *IEEE PIMRC-2021*, Finland, 13-16 September 2021.
2. Rabin Paul, T. R. Lenka, and F. A. Talukdar, "Performance Improvement of CZTSSe Solar Cell by using Mg-doped ZnO as Window Layer," 2021 IEEE 18th India Council International Conference (INDICON), 19-21 Dec 2021. (IEEE Xplore) [Scopus]
3. Samadrita Das, T. R. Lenka, F. A. Talukdar, R. T. Velpula, B. Jain, and H. P. T. Nguyen, "Performance Enhancement of AlInGaN Quantum Well based UV-LED," 2021 IEEE 18th India Council International Conference (INDICON), 19-21 Dec 2021. (IEEE Xplore) [Scopus]
4. Samadrita Das, T. R. Lenka, F. A. Talukdar, R. T. Velpula, B. Jain, H. P. T. Nguyen, and G. Crupi, "Effects of Spontaneous Polarization on Luminous Power of GaN/AlGaIn Multiple Quantum Well UV-LEDs for Light Technology," 2021 15th International Conference on Advanced Technologies, Systems and Services in Telecommunications (TELSIKS 2021), Serbia, Nis, 20-22 Oct 2021, pp. 335-338, doi: 10.1109/TELSIKS52058.2021.9606406. (IEEE Xplore) [Scopus]
5. Rajan Singh, T. R. Lenka, S. A. Ahsan, H. P. T. Nguyen, "Analytical Study of Conduction Band Discontinuity supported 2DEG Density in AlN/Ga₂O₃ HEMT," International Conference on Micro/Nanoelectronics Devices, Circuits and Systems (MNDCS-2021), 29-31 Jan 2021, NIT Silchar. [Scopus]
6. Sagar Dutta, Banani Basu, Fazal Ahmed Talukdar, "Cascaded Neural Network Approach for Template Based Array Synthesis," International Conference on Computational Intelligence & Sustainable Technologies (ICoCIST-2021), 28th – 30th Oct 2021, India.
7. S. Vallisree and T. R. Lenka, "EQE Analysis of HIT-CZTS Tandem Solar Cell towards Minimizing Current Losses," International Conference on Micro/Nanoelectronics Devices, Circuits and Systems (MNDCS-2021), 29-31 Jan 2021, NIT Silchar. [Scopus]
8. A. Srivastava, S. K. Tripathy and T. R. Lenka, "SCAPS-1D simulations for comparative study of alternative absorber materials Cu_2XSnS_4 ($X= \text{Fe}, \text{Mg}, \text{Mn}, \text{Ni}, \text{Sr}$) in CZTS based Solar Cells," International Conference on Micro/Nanoelectronics Devices, Circuits and Systems (MNDCS-2021), 29-31 Jan 2021, NIT Silchar. [Scopus]
9. M. Krishnasamy, J. R. Shinde, H. P. Mohammad, G. Amarnath, and T. R. Lenka, "Design and Analysis of FEM Novel X-Shaped Broadband Linear Piezoelectric Energy Harvester," International Conference on Micro/Nanoelectronics Devices, Circuits and Systems (MNDCS-2021), 29-31 Jan 2021, NIT Silchar. DOI: 10.1007/978-981-16-3767-4_39. [Scopus]
10. Vishal Nandan Medhi, Kaustav Moni Basumatary, R Murugan and Tripti Goel, "An Early Detection of Parkinson's Disease from Geometric Drawings", International Conference on Artificial Intelligence and Signal Processing, 2021. (Accepted for publication on 11/12/2021).

11. Ananya Bhattacharjee, R Murugan, Tripti Goel, Badal Soni, "Semantic Segmentation of Lungs Using a Modified U-Net Architecture Through Limited Computed Tomography Images" IEEE International Conference on Advanced Communication Technologies and Signal Processing, 2021 (Accepted for publication on 26/11/2021).
12. Shubham Dwivedi, Tripti Goel, Rahul Sharma, R Murugan, "Structural MRI Based Alzheimer's Disease Prognosis Using 3D Convolutional Neural Network and Support Vector Machine" IEEE International Conference on Advanced Communication Technologies and Signal Processing, 2021 (Accepted for publication on 26/11/2021).
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14. Vijaya Yaduvanshi, R. Murugan, Tripti Goel, "Oral cancer detection using modified local binary pattern", 7th International Conference on Nanoelectronics, Circuits & Communication Systems, 2021 (Accepted for publication on 12/11/2021)
15. Sonal Yadav, Sanjay Das, R Murugan, Tripti Goel, "RD-Light-Net: Light Weight Network for Retinal Detachment Classification Through Fundus Images" Sixth IEEE International Conference on Image Information Processing (ICIIP -2021). (Accepted on 26/10/2021).
16. N Jagan Mohan, R Murugan, Tripti Goel and Parthapratim Roy, "Exudate Detection with Improved U-Net Using Fundus Images", IEEE IAS International Conference on Computational Performance Evaluation, 2021 (Accepted on 17/10/2021).
17. S. Dhanunjay Reddy, R Murugan, Arnab Nandi and Tripti Goel, "Arrhythmia detection and classification using two stage median filter through dynamic features of ECG signals", International Conference on Communication, Devices and Computing (Accepted on 13/07/2021).
18. Arpita Ghosh, Badal Soni, Ujwala Baruah, and R. Murugan, "Classification of Brain Hemorrhage using Fine Tuned Transfer Learning", International Conference on Machine Intelligence and Signal Processing (Accepted for publication, April 2021)
19. Mohan, N. Jagan, R. Murugan, Tripti Goel, and Parthapratim Roy. "Exudate Localization in Retinal Fundus Images Using Modified Speeded Up Robust Features Algorithm." In 2020 IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES), pp. 367-371. IEEE, 2021.
20. S. Ghosh and M. V. Swati, "A Compact mm-wave MIMO Antenna Array," 2021 Asian Conference on Innovation in Technology (ASIANCON), 2021, pp. 1-4, doi: 10.1109/ASIANCON51346.2021.9544611.
21. Prasad, G., Mishra, D. and Laskar, R.H., 2021, January. Optimal New Node Insertion for Strong Minimum Energy Topology in IoT Networks. In 2021 IEEE 18th Annual Consumer Communications & Networking Conference (CCNC) (pp. 1-4). IEEE.
22. J. Talukdar, G. Amarnath, K. Mummaneni Flicker Noise Analysis of Non-uniform Body TFET with Dual Material Source (NUTFET-DMS), "Micro and Nanoelectronics Devices, Circuits and Systems", vol 781. Springer, Singapore. (2021), https://doi.org/10.1007/978-981-16-3767-4_23.
23. M. Shashikumar, B.J. Das, J. Talukdar, K. Mummaneni "Radix-10 Multiplier Implementation with Carry Skip Adder Using Verilog", Micro and Nanoelectronics Devices, Circuits and Systems. Lecture Notes in Electrical Engineering, vol 781. Springer, Singapore. https://doi.org/10.1007/978-981-16-3767-4_38, (2021).

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35. Yadav, K.S., Monsley K. A., Barlaskar, S.A. Ahmad, N., Laskar, R.H. and Bhuyan, M.K. "Recognition of Isolated Characters across Different Input Interfaces using 2D DCNN", 2022 IEEE Region 10 Conference (TENCON), Auckland, New Zealand (7-10 December 2021).
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37. Samadrita Das, Trupti Ranjan Lenka, Fazal A. Talukdar, Ravi Teja Velpula, Barsha Jain, Hieu Pham Trung Nguyen, and Giovanni Crupi, 'Effects of Spontaneous

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 39. Surender Daasari, Taimoor Khan, Fazal A. Talukdar, ‘A Compact Circularly Polarized 2.45 GHz One-Fourth Cylindrical DRA for Harvesting Wireless Energy Applications in Smart City’, 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting at Marina Bay Sands in Singapore, on 4-10 December 2021 (accepted) [submission 1253]
 40. Varun Kumar, Alankrita Kakati, Mousumi Das, Aarhisreshtha Mahanta, Puli Gangadhara, Chandrajit Choudhury and Fazal Talukdar, Modeling Indian road traffic using concepts of fluid flow and Reynolds number for anomaly detection, International Conference on Machine Vision & Augmented Intelligence (MAI-2021), February 11 - 14, 2021, DOI: 10.1007/978-981-16-5078-9_43.
 41. Swagata Devi, Koushik Guha, Krishna Lal Baishnab; “Metaheuristic algorithms-based approach for optimal design of improvised fully differential amplifier for biomedical applications” presented in the 4th International Conference on “2021 Devices for Integrated Circuits (DevIC 2021)” organized by IEEE EDS KGEC Students Branch Chapter in association with the Department of ECE, KGEC held in Kalyani Government Engineering College during 19-20 May, 2021 through online mode.
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 43. G Sai Lakshmi, K Srinivasa Rao, Koushik Guha and K Girija Sravani; “Design of Piezoresistive based Microcantilever for MEMS Pressure sensor in Continuous Glucose Monitoring system”, presented in 2021 Springer International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2021) during 29-31 Jan 2021 at NIT Silchar, Assam, India (virtual mode).
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47. Suryanarayana N K, Asha K, Koushik Guha and Narayan Krishnaswamy; "Modeling and Analysis of Surface Plasmon Resonance Waveguide sensor" presented in 2021 Springer International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2021) during 29-31 Jan 2021 at NIT Silchar, Assam, India (virtual mode).
 48. Preeti Mallela, Koushik Guha, K L Baishnab, A S C S Sastry, Kalyan Dusarlapudi and Narsimha Raju; "Analysis of a Proofmass Structure of a Capacitive Accelerometer as wearable sensor for Health Monitoring" presented in 2021 Springer International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2021) during 29-31 Jan 2021 at NIT Silchar, Assam, India (virtual mode).
 49. Sourav Nath, Swagata Devi, Merin Loukrakpam, Koushik Guha and K. L. Baishnab; "Energy Efficient Hardware Implementation of K-means Clustering Algorithm" presented in 2021 Springer International Conference on Micro/Nanoelectronics Devices, Circuits, and Systems (MNDCS-2021) during 29-31 Jan 2021 at NIT Silchar, Assam, India (virtual mode).
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58. Sumon Modak, Debanjali Sarkar, Partha Pratim Shome and Taimoor Khan, "F-Shaped Miniaturized UWB Antenna System with Dual Notched Band Characteristics", Proc. of Indian Conference on Antennas and Propagation (InCAP 2021), MNIT Jaipur, India, 13-16 Dec. 2021. (Accepted).
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 60. Structural and Morphological Properties of Indium Doped Titanium Di-oxide Nanoparticles Synthesized Using Sol-gel Process, J. T. Mazumder, Milan Zunic, Zorica Brankovic and S K Tripathy, MNDCS, NIT Silchar. India, Jan. 30-31, 2021.
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