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International Conference – July 2022 to June 2023

1. **Avisankar Roy**, Surajit Mukherjee, Tapas Tewary, Smarajit Maity, Sunandan Bhunia, "Design of a compact dual-band antenna with meandered slotted patch and U-slotted defected ground plane", *Proc. Of 4th Int. Conf. on Communication, Devices and Computing (ICCDC 2023)*, Organized by dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, WB, March 1-3, 2023, Published in Lecture Notes in *Electrical Engineering, Springer*, Vol. 1046, Chapter 54, ISBN: 978-981-99-2709-8, DOI : 10.1007/978-981-99-2710-4, 2023.

2. Kushal Roy, **Avisankar Roy**, Surajit Mukherjee, Dibyendu Chowdhury, Tirthadip Sinha, Subhashree Choudhury, "Study and Accurate Estimation of the Far Field Profile in Kerr Type Nonlinear Parabolic Index Optical Fiber for the First Higher Order (LP11) Mode Using Power Series Expansion Method Based on Chebyshev Technique", *2nd International conference on Advances in Power, Signal and Information Technology (APSIT 2023*), organized by Department of Electrical & Electronics Engineering, Institute of Technical Education & Research, Faculty of Engineering & Technology, Siksha 'O' Anusandhan Deemed to be University, IEEE Xplore, 9-11 June 2023.

3. Sunandan Bhunia, Neha Gupta, Nitu Kumari, Jyotirmoy Bhargav, **Avisankar Roy**, Tapas Tewary, Smarajit Maity, "Study and Analysis on Compactness of Patch Antenna Utilizing Ground Plane with U slot", *3rd International Conference on Innovative Research in Renewable Energy Technologies (IRRET 2023),* Organized by dept. of Electronics and Communication Engineering, IMPS College of Engineering and Technology, Malda, WB, 9-10 April 2023.

4. **Kushal Roy,** Avisankar Roy**, Surajit Mukherjee, Dibyendu Choudhury, Tirthadip Sinha,** Subhashree Choudhury, "Study and Accurate Estimation of the Far Field Profile in Kerr Type Nonlinear Parabolic Index Optical Fiber for the First Higher Order (LP11) Mode Using Power Series Expansion Method Based on Chebyshev Technique", *International Conference in Advances in Power, Signal, and Information Technology (APSIT)*, Organized by Siksha 'O' Anusandhan University, 9-11 June 2023, DOI: 10.1109/APSIT58554.2023.10201775, pp. 745-750, published by IEEE Xplore, 2023.

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7. Manas Pandey, Anjali Chauhan, **Dibyendu Chowdhury** and Suddhendu DasMahapatra, "Experimental Investigation on Spectrum Sensing Testbed Using GNU Radio and SDR", *Proc. Of 4th Int. Conf. on Communication, Devices and Computing (ICCDC 2023)*, Organized by dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, WB, March 1-3, 2023, Published in Lecture Notes in *Electrical Engineering, Springer*, Vol. 1046, ISBN: 978-981-99-2709-8, DOI : 10.1007/978-981-99-2710-4, pp. 303-308, 2023.

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Springer, Vol. 1046, ISBN: 978-981-99-2709-8, DOI : 10.1007/978-981-99-2710-4, pp. 617-631, 2023.

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1. N.K. Singh, R. Kar, D. Mandal, **D. Chowdhury,** "Design and Temperature Analysis of Si0.8Ge0.2-Based Extended Gate Gate-All-Around TFET". In: Lenka, T.R., Misra, D., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. **Lecture Notes in Electrical Engineering**, vol 904 (2022) pp-31-39. Springer, Singapore. https://doi.org/10.1007/978-981-19-2308-1_4, September 2022. **[Scopus Indexed]**

2. **D. Chowdhury**, B.P. De, S. Ghosh, N.K. Singh, R. Kar, D. Mandal, "Optimization of Subthreshold Parameters of Graded-Channel Gate-Stack Double-Gate (GC-GS-DG) MOSFET Using PSO-CFIWA". In: Lenka, T.R., Misra, D., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. **Lecture Notes in Electrical Engineering**, vol 904 (2022) pp-41-50. Springer, Singapore. https://doi.org/10.1007/978-981-19-2308-1_5, September 2022. **[Scopus Indexed]**

3. A.K Singh, R. Singh, **D. Chowdhury**, A. Rathi, "Optical Response in Strained Type-II AlInAs/AlSb Ultrathin QW Heterostructure". In: Dwivedi, S., Singh, S., Tiwari, M., Shrivastava, A. (eds) Flexible Electronics for Electric Vehicles. Lecture Notes in Electrical Engineering, vol 863. 2023, pp 569-575, Springer, Singapore. https://doi.org/10.1007/978-981-19-0588-9_56, 2023. **[Scopus Indexed]**

4. **A. Bhattacharyya,** S. Paul, P. Debnath, D. De, M. Chanda, "Performance Assessment of Electrostatically Doped Dual Pocket Vertical Tunnel Field-Effect Transistor". In: Lenka, T.R., Misra, D., Fu, L. (eds) Micro and Nanoelectronics Devices, Circuits and Systems. **Lecture Notes in Electrical Engineering,** vol 904, pp. 227-238, Springer, Singapore. https://doi.org/10.1007/978-981-19-2308-1_24, September 2022. **[Scopus Indexed]**

5. S. Tapna, **K. Chakrabarti**, D. Mukhopadhyay, "A Secure Communication Gateway with Parity Generator Implementation in QCA Platform", In: Mukhopadhyay, S., Sarkar, S., Dutta, P., Mandal, J.K., Roy, S. (eds) Computational Intelligence in Communications and Business Analytics. CICBA 2022.Communications in Computer and Information Science, vol. 1579, Springer, Cham. https://doi.org/10.1007/978-3-031-10766-5_15. **[Scopus Indexed]**

6. **Tilak Mukherjee,** "A Literature survey on the emerging trends in the telecommunications", *Handbook of Trends in Engineering Technology and Research-AGPH*, vol. 1, ISBN: 978-93-94339-64-4, Aug 2022 .

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Books – July 2022 to June 2023

1. **Santanu Maity**, **Pinaki Satpathy**, "Design and Implementation of Low Power Carry Skip Adder", *Lap Lambert Academic Publishing, Germany*, ISBN: 978-620-5-49293-2, August-2022, Pages-72.

Patent – July 2022 to June 2023

1. **Applicant Name**: Dr. Avisankar Roy
   Application No.: 202341006632
   Date of filing of Application: 01/02/2023
   Title of the invention: ELECTRICITY DEMAND FORECASTING IN INDUSTRIAL AND RESIDENTIAL FACILITIES USING ENSEMBLE MACHINE LEARNING
   Publication Date: 24/02/2023
   Published in The Patent Office Journal No. 08/2023, Dated 24/02/2023; Page No. 12764

2. Applicant Name: **Dibyendu Chowdhury**
   Application No.: 20 2022 103 047 2,
   Date of filing of Application: 31/05/2022
   Title of the invention: A RuO2/Pb(Zr0.52Ti0.48)O3/RuO2 metal-insulator-metal device using the Solgel spin coating method.
   Publication Date: 11/07/2022

3. Applicant Name: **Dibyendu Chowdhury**
   Application No.: 202341011888,
   Date of filing of Application: 20/02/2023
   Title of the invention: AL BASED HEALTH CARE SYSTEM USING CLOUD COMPUTING IN
   SMART CITIES
   Publication Date: 17/03/2023
   Published in: The Patent Office Journal No. 11/2023, Dated 17/03/2023; Page No. 27206

4. Applicant Name: **Dr. Banibrata Bag**
   Application No.: 202341006632
   Date of filing of Application: 01/02/2023
   Title of the invention: ELECTRICITY DEMAND FORECASTING IN INDUSTRIAL AND RESIDENTIAL FACILITIES USING ENSEMBLE MACHINE LEARNING
   Publication Date: 24/02/2023
   Published in The Patent Office Journal No. 08/2023, Dated 24/02/2023; Page No. 12764