

Published in International Journals

2016-2017

1. Chandramauleshwar Roy, Arundhati Bhattacharya, Aminul Islam, "Modeling of MTJ and its validation using nanoscale MRAM bitcell," *Journal of Engineering Science and Technology*, vol. 12, no. 6, pp. 1525 – 1540, Jun. 2017.
2. Rishab Mehra, Vikash Kumar, Aminul Islam, and Brajesh Kumar Kaushik, "Variation-Aware Nanoscale Design of CMOS Active Inductor Based RF Bandpass Filter," *International Journal of Circuit Theory and Applications*, vol. 45, no. 12, pp. 2181-2200, May 2017.
3. Manisha Guduri, Aminul Islam, "Novel Pass-Transistor Logic Based Ultralow Power Variation Resilient CMOS Full Adder," *Journal of Semiconductor Technology and Science*, vol. 17, no. 2, pp. 302 – 317, Apr. 2017.
4. Vikash Kumar, Rishab Mehra, Aminul Islam, "A 2.5GHz Low Power, High-Q, Reliable Design of Active Bandpass Filter," *IEEE Transactions on Device and Materials Reliability*, vol. 17, no. 1, pp. 229-244, Mar. 2017.
5. Swapnil Sourav, Rishab Mehra, Aminul Islam, "Robust Design of Differential Amplifier with Diode-Connected Voltage Reference," *Indian Journal of Science and Technology*, vol. 9, no. 44, pp. 1-7, Nov. 2016.
6. Swapnil Sourav, Aminul Islam, "Robustness Study and Comparison Between P-channel and N-channel Input Single-Stage OTA," *Indian Journal of Science and Technology*, vol. 9, no. 44, pp. 1-6, Nov. 2016.
7. Sarita Kumari, Rishab Mehra, Aminul Islam, "Impact of Process Variations on Open Circuit Voltage Gain of CMOS Inverting Amplifiers," *Indian Journal of Science and Technology*, vol. 9, no. 44, pp. 1-8, Nov. 2016.
8. Vikash Kumar, Prashant Gupta, Shashank Kumar Ranu, Manish Kumar Pandey, Aminul Islam, "Design of Reversible Number Generator using Finite State Automaton Realization," *Indian Journal of Science and Technology*, vol. 9, no. 44, pp. 1-5, Nov. 2016.
9. Vikash Kumar, Manish Kumar Pandey, Shashank Kumar Ranu, Prashant Gupta, Aminul Islam, "A New Robust and Reliable Sub-threshold XOR Circuit with Full Output Swing," *Indian Journal of Science and Technology*, vol. 9, no. 44, pp. 1-6, Nov. 2016.
10. Vikash Kumar, Yashdeep Singh, Ravi Kumar Prinshu, Aminul Islam, "Low Voltage Charge Pump for RF Energy Harvesting Applications," *Indian Journal of Science and Technology*, vol. 9, no. 44, pp. 1-5, Nov. 2016.

11. Soumitra Pal, Aminul Islam, "Low Power and High Variation Tolerant 9T-SRAM cell at 16-nm Technology Node," *Indian Journal of Science and Technology*, vol. 9, no. 40, pp. 1-7, Oct. 2016.
12. Manisha Guduri, Aminul Islam, "Analysis of XOR Circuits for Ultralow-Power Applications in Deep Subthreshold Region," *Indian Journal of Science and Technology*, vol. 9, no. 40, pp. 1-6, Oct. 2016.
13. V. Karthik Reddy, Manisha Guduri, N Lakshmi Dheshik Reddy, Peddi Dharani, Santashraya Prasad, A. Islam, "Threshold Voltage Extraction of 220 nm FDSOI Device Using Linear Extrapolation Method," *Indian Journal of Science and Technology*, vol. 9, no. 40, pp. 1-4, Oct. 2016.
14. Chandramauleswar Roy, Aminul Islam, "Design of 10T SRAM Cell using Column-Line Assist and DTMOS Techniques," *Indian Journal of Science and Technology*, vol. 9, no. 40, pp. 1-6, Oct. 2016.
15. Manisha Guduri, Amit Krishna Dwivedi, Aminul Islam, "High Vt-Low Leakage FDSOI Device for Ultra-Low Power Operation," *Indian Journal of Science and Technology*, vol. 9, no. 33, pp. 1-5, Sep. 2016.
16. Chandramauleswar Roy, Aminul Islam, "TG Based 2T2M RRAM Using Memristor as Memory Element," *Indian Journal of Science and Technology*, vol. 9, no. 33, pp. 1-5, Sep. 2016.
17. Shrey Khanna, Debosmit Majumder, Vikash Kumar, Santashraya Prasad, Aminul Islam, "Impact of Temperature Variation on Resonant Frequency of Active Grounded Inductor-Based Bandpass Filter," *Indian Journal of Science and Technology*, vol. 9, no. 33, pp. 1-4, Sep. 2016.
18. V. Dokania, A. Islam, V. Dixit and S. P. Tiwari, "Analytical Modeling of Wrap-Gate Carbon Nanotube FET With Parasitic Capacitances and Density of States," *IEEE Transactions on Electron Devices*, vol. 63, no. 8, pp. 3314-3319, Aug. 2016.
19. Swapnil Sourav, Amit Krishna Dwivedi, Aminul Islam, "Investigating Phase Transform Behavior in Indium Selenide Based RAM and Its Validation as a Memory Element," *Journal of Materials*, vol. 2016, pp. 1-7, Article ID 6123268, 2016.
20. BabulalSahu, Srikant Pal , NeelaChattoraj, "A Novel Triangular shaped UWBfractal antenna using circular slot" *Frequenz* , Vol 70(3-4), pp, 113-120 Oct2016.
21. BabulalSahu, Srikant Pal , NeelaChattoraj,DileepkumarUpadhyay "A Compact UWB band pass filter using Hybrid fractal shaped DGS", *Journal of microwaves, opto electronics &electromagnetic Applications*, Vol 16, pp38-49, March 2017.

22. Parikshit Vasisht and N. Chattoraj, "Design and Development of Wideband RDRA fed with parallel conducting strips chamfered at edges separated by partial matching slab", *Microwave & Optical Technology Letters (MOTL)*, Vol 59, No 3, PP, 695-698, March 2017.
23. Babulal Sahu, Srikant Pal, Neela Chattoraj, Dileep Kumar Upadhyay "Highly compact UWB bandpass filter based on composite right/left-handed transmission Line and meander fractal like ring slot in ground", *International journal of wireless Technologies*, Vol 9, 1037-1044, June 2017.
24. I. Snigdha, D. Gosain and N. Gupta, "Optimal Sink Placement in backbone assisted Wireless Sensor Network", *Egyptian Informatic Journal*, vol. 17, pp 217-225, July 2016.
25. Bibha Kumari and Nisha Gupta, "Evaluation of UWB antenna using Chaotic Colpitts Oscillator," *Microwave and Optical technology Letters*, vol. 58, pp. 2393-2396, Oct 2016.
26. Bibha Kumari and Nisha Gupta, "Realization of Chaotic Circuit using lambda diode," *Journal of Circuits, Systems and Computers*, April 2017.
27. Raghvendra Kumar, Pankaj Kumar, Nisha Gupta and Rahul Dubey, "Experimental investigations of wearable antenna on flexible perforated plastic substrate," *Microwave and Optical Technology Letters*, vol. 59, pp. 265-270, Feb. 2017.
28. Rajnikant and Nisha Gupta, "Design and implementation of inverse legendre microstrip filter," *Microwave and Optical Technology Letters*, vol. 59, pp. 69-73, Jan. 2017.
29. Prashant K. Singh, Anjini K. Tiwary, and Nisha Gupta, "Ultra-compact switchable microstrip band-pass filter-low-pass filter with improved characteristics," *Microwave and Optical Technology Letters*, vol. 59, pp. 197-201, Jan. 2017.
30. Prashant Kumar Singh and Anjini Kumar Tiwary, "Ultra-compact LPF with wide stop-band", *Microwave Review*, vol. 23, no. 1, pp. 35-39, June 2017.
31. Prashant Kumar Singh and Anjini Kumar Tiwary, "Design of Switchable Microstrip Low Pass - Band Stop - Band Pass", *Microwave and Optical Technology Letters*, vol. 59, Issue 2, pp. 257-260, February 2017.
32. Prashant Kumar Singh, Anjini Kumar Tiwary and Nisha Gupta, "Ultra-Compact Switchable Microstrip Bandpass - Lowpass Filter with Improved Characteristics", *Microwave and Optical Technology Letters*, vol. 59, Issue 1, pp. 197-201, January 2017.
33. Sunita Keshri, Parthasarathi Mohanty, Vibha Rani Gupta, "Study on microwave dielectric properties of corundum type $(Mg_{1-x}Co_x)4Nb_2O_9$ ($x = 0-0.6$) ceramics for designing a microstrip branch-line coupler", *Journal of Materials Science Materials in Electronics*, pp1-10, June 2017.

34. Kumar Mohit, Vibha Rani Gupta, S.K. Rout, "Compact magneto-dielectric resonator MIMO antenna for angle diversity", *Turkish Journal of Electrical Engineering & Computer Sciences*. Vol. 25, pp 2066 – 2073, May2017.
35. Priyadarshi Suraj, Vibha Rani Gupta, Manish Saxena, "Design and Analysis of Monopole Patch Antenna with Triple Band Rejection Characteristics", *Microwave and Optical Technology Letters*, pp138-142, Vol 59, No.1,Jan2017.
36. Kumar Mohit, Vibha Rani Gupta, S.K. Rout, "Two Element Magneto-Dielectric Resonator Antenna for Angle Diversity ", *Frequenz –Berlin*, January 2016.
37. Shrey Khanna, Debosmit Majumder, Vikash Kumar, Santashraya Prasad, Aminul Islam "Impact of Temperature Variation on Resonant Frequency of Active Grounded Inductor-based Bandpass Filter," *Indian Journal of Science and Technology*, (National Journal), ISSN (Print): 0974-6846(Online), sept-2016.
38. Lokesh Ranjan, Dileep Kumar Upadhyay, Babu Lal Shahu, "Monopole UWB Antenna with Dual Band Frequency Notch" *Microwave review*, Vol. 23, No. 1, pp. 3-8, June 2017.
39. Dileep Kumar Upadhyay, Uday Ranjay, Gajendra Kant Mishra, Babu Lal Shahu, "Design of a Compact UWB Bandpass Filter using Via-Less CRLH TL", *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, Vol. 16, No. 2, pp. 336-350, June 2017.
40. Babu Lal Shahu, Neela Chatteraj, Srikanta Pal, Dileep Kumar Upadhyay, "A Compact UWB Bandpass Filter using Hybrid Fractal Shaped DGS", *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, Vol. 16, No. 1, pp. 38-49, March 2017.
41. Babu Lal Shahu, Srikanta Pal, Neela Chatteraj, , Dileep Kumar Upadhyay, "Highly compact UWB bandpass filter based on composite right/left-handed transmission line and meander fractal like ring slot in ground", *International Journal of Microwave and Wireless Technologies*, Vol. 9 no. 5 pp. 1037-1044, June. 2017.
42. Somnath Sengupta, S. K. Ghorai, "Ultra-narrow Band Optical Comb Filter using Gaussian-Sampled Fiber Bragg Grating with Periodic Chirp Effect", *Optical and Quantum Electronics*, vol. 48, p. 482(13pp.), 2016.
43. Somnath Sengupta, S. K. Ghorai, "Design of Superstructure Fiber Bragg Grating with Efficient Mode Coupling for Simultaneous Strain and Temperature Measurement with low Cross-sensitivity", *IEEE Sensors J.*, vol. 16(22), 2016.
44. Kumari shilpi, Jain Rahul, Kumar Ujjwal, Yadav Inderjeet, Kumar Nitin, Kumari Kanchan, Kesharwani Ram Kumar, Kumar Sachin, Pal srikanta, Pal Surjya K and Chakraborty Debashish, "Defect identification in friction stir welding using continuous wave let transform", *Journal of Intelligent Manufacturing (Springer)*, , Vol. 30, pp. 483–494, Sept 2016.

45. Babu Lal Shahu, Neela Chatteraj, Srikanta Pal, Dileep Kumar Upadhyay, "A Compact UWB Bandpass Filter using Hybrid Fractal Shaped DGS", *J. Microw. Optoelectron. Electromagn. Appl.* Vol.16 No.1 pp. 38-49, Mar. 2017.
46. Babu Lal Shahu, Srikanta Pal, Neela Chatteraj and Dileep Kumar Upadhyay, "Highly compact UWB bandpass filter based on composite right/left-handed transmission line and meander fractal like ring slot in ground", *International Journal Microwave and Wireless Technologies (Cambridge Univ. Press)*, Vol. 9, No. 5, pp. 1037-1044, June 2017.
47. Chakraborty, S., Pandey, A. & Nath, V.(2017).Ultra high gain CMOS op-amp design using self-cascoding and positive feedback. *Microsystem Technologies*, vol 23, issue 3, pp 541–552, March 2017.
48. Ramkrishna Kundu, Abhishek Pandey, Subhra Chakraborty, and Vijay Nath, "A Current mirror based two stage CMOS Cascode Op-Amp for high frequency application," *Journal of Engineering Science & Technology (JESTEC)*, Vol.12, Issue 3, pp. 686-700. March 2017.
49. Kumari Rambha Ranjan, Kartik Mahto, "A Review: A Singer Identification and Analysis of Musical Performance", *International Journal of Latest Engineering Research and Applications*, Vol. 02, pp.11-16, 2017.
50. A. Alam, M. K. Mukul and P. Thakura, "Wavelet Transform-Based EMI Noise Mitigation in Power Converter Topologies," *IEEE Transactions on Electromagnetic Compatibility*, vol. 58, no. 5, pp. 1662-1673, Oct. 2016.
51. M. Kumar, S.K. Mishra and Sitanshu S.Sahu,"Cat Swarm Optimization based Functional Link Artificial Neural Network Filter for Gaussian Noise Removal from Computed Tomography Images" *Applied Computational Intelligence and Soft Computing*, Volume 2016, pp:1-6, Article ID 6304915, 2016.
52. P. Saxena and R. S. Kumar "An Effective Filter for Noise Removal in Magnetic Resonance Images Using Multilevel Fuzzy Reasoning Concept", *Journal of Clinical Engineering*, Vol. 42, No. 3, pp 121-135, 2017.
53. Vishal H. Shah, Arjun Abhishek, Prajna Dash, "Efficient Image Inpainting using Morphological Structuring Element", *International Journal of Engineering Technology Science and Research, IJETSR*, ISSN 2394 – 3386, Volume 4, Issue 6, June 2017.
54. Mrinal kumar, Tathagata Hazra ,S.S tripathy , "Wheat leaf disease detection using image processing", *International Journal of Latest Technology in Engineering, Management & Applied Science (IJLTEMAS)* Volume VI, Issue IV, PP 73-76, April 2017 ,ISSN 2278-2540.

55. Tathagata Hazra , Mrinal kumar, S.S. Tripathy, “Automatic Leukemia Detection Using Image Processing Technique” , International Journal of Latest Technology in Engineering, Management & Applied Science Volume VI, Issue IV, PP 42-45, April 2017.
56. Sushama kiran, Bindhu Lal and S.S. Tripathy, “Shear Strength Prediction of Soil based on Probabilistic Neural Network”, Indian Journal of Science and Technology, Volume-9, Issue-41, P 1-6, November 2016.

Published in International Conference

2016-2017

1. A. K. Dwivedi, A. Mal and A. Islam, "Analysis of various delay elements @ 16-nm technology node," *2017 International Conference on Intelligent Computing and Control (I2C2)*, Coimbatore, 23-24 June 2017, pp. 1-6, doi: 10.1109/I2C2.2017.8321786, <https://doi.org/10.1109/I2C2.2017.8321786>, ISBN: 978-1-5386-0374-1.
2. Riya, Sananya Majumder, Vikash Kumar, and Aminul Islam, “Single Input Three Output Filter Design using VDFTA,” in *4th International Conference on Microelectronics, Circuits and Systems (Micro2017)*, Darjeeling, India, 3-4 Jun. 2017, vol. 1, pp. 180-182. Print ISBN: 978-93-80813-45-5.
3. N. S. Ranjan, Arko Mukherjee, Harshit Sinha, Santashraya Prasad, Aminul Islam, "Optimal Design of Nonvolatile CAM Cell with Magnetic Tunnel Junction," in *4th International Conference on Microelectronics, Circuits and Systems (Micro2017)*, Darjeeling, India, 3-4 Jun. 2017, vol. 2, pp. 82-86, Print ISBN: 978-93-80813-45-5.
4. Ankan Dutta, Yashdeep Singh, Agnish Mal, Vikash Kumar and Aminul Islam "Voltage and Temperature Variability Performance of CMOS Active Inductors," *4th International Conference on Microelectronics, Circuits and Systems (Micro2017)*, Darjeeling, India, 3-4 Jun. 2017, vol. 1, pp. 57-60, Print ISBN: 978-93-80813-45-5.
5. Shruti Agrawal, Chandramauleshwar Roy, B.B. Pal, Aminul Islam, "Design of Low Power 8T SRAM Cell," *4th International Conference on Microelectronics, Circuits and Systems (Micro2017)*, Darjeeling, India, 3-4 Jun. 2017, vol. 2, pp. 50-53, Print ISBN: 978-93-80813-45-5.
6. Shruti Agrawal, Chandramauleshwar Roy, B.B Pal, Aminul Islam, "10T SRAM Cell With Reduced Leakage Power," *4th International Conference on Microelectronics, Circuits and Systems (Micro2017)*, Darjeeling, India, 3-4 Jun. 2017, vol. 2, pp. 159-162, Print ISBN: 978-93-80813-45-5.
7. A. Chitransh, S. Moonka, A. Priya, S. Prasad, A. Sengupta and A. Islam, "Analysis of breakdown voltage of a field plated High Electron Mobility Transistor," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 167-169, doi: 10.1109/DEVIC.2017.8073929, <https://doi.org/10.1109/DEVIC.2017.8073929>, ISBN: 978-1-5090-4724-6.

8. A. Sengupta and A. Islam, "Performance comparison of AlGa_N/Ga_N HFET with sapphire and 4H-SiC substrate," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 190-195, doi: 10.1109/DEVIC.2017.8073934, <https://doi.org/10.1109/DEVIC.2017.8073929>, ISBN: 978-1-5090-4724-6.
9. S. Chatterjee, A. Sengupta, S. Kundu and A. Islam, "Analysis of AlGa_N/Ga_N high electron mobility transistor for high frequency application," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 196-199, doi: 10.1109/DEVIC.2017.8073935, <https://doi.org/10.1109/DEVIC.2017.8073935>, ISBN: 978-1-5090-4724-6.
10. S. Moonka, A. Priya, A. Chitransh, S. Prasad, A. Sengupta and A. Islam, "Analysis of Al_{0.22}Ga_{0.78}As/In_{0.18}Ga_{0.82}As/GaAs Pseudomorphic HEMT device with higher conductivity," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 360-363, doi: 10.1109/DEVIC.2017.8073969, <https://doi.org/10.1109/DEVIC.2017.8073969>, ISBN: 978-1-5090-4724-6.
11. A. Priya, S. Moonka, A. Chitransh, S. Prasad, A. Sengupta and A. Islam, "Development of HEMT device with surface passivation for a low leakage current and steep subthreshold slope," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 364-367, doi: 10.1109/DEVIC.2017.8073970, <https://doi.org/10.1109/DEVIC.2017.8073970>, ISBN: 978-1-5090-4724-6.
12. R. Mehra, A. Mal, A. K. Dwivedi and A. Islam, "Compact 6T design of voltage controlled tunable resistor for high frequency applications," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 578-583, doi: 10.1109/DEVIC.2017.8074017, <https://doi.org/10.1109/DEVIC.2017.8074017>, ISBN: 978-1-5090-4724-6.
13. D. Bharti and A. Islam, "Performance improvement in 4H-SiC UMOSFET with HfO₂/Al₂O₃ gate dielectric stack," *2017 Devices for Integrated Circuit (DevIC)*, Kalyani, India, 2017, pp. 804-807, doi: 10.1109/DEVIC.2017.8074064, <https://doi.org/10.1109/DEVIC.2017.8074064>, ISBN: 978-1-5090-4724-6.
14. Amit Krishna Dwivedi, Sarika Tyagi, Basab Bijoy Pal, Aminul Islam, "Compact Design of Trigger Pulse Generator Circuit Using Delay Element and its potential Applications," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 177– 181, Print ISBN: 81-85824-46-0.
15. Chandaramauleshwar Roy, Aminul Islam, "Ultra Low Power Differential 7T SRAM Cell at 16 nm Technology node," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 102– 106, Print ISBN: 81-85824-46-0.

16. Manisha Guduri, Ch.Seshasaisree, V. Rashmi and Aminul Islam, "FDSOI device modeling @ 32 nm technology node for designing ultra-low power circuits" *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 61– 65, Print ISBN: 81-85824-46-0.
17. Divya Thakur, Srinithya Nagiri, Chandaramauleshwar Roy, Aminul Islam, "Comparative study of various 8T SRAM Cells," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 42– 46, Print ISBN: 81-85824-46-0.
18. Indrajit Pal, Aminul Islam, "Novel Delay-Resilient Dynamic Schmitt Trigger Logic," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 1, pp. 95– 100, Print ISBN: 81-85824-46-0.
19. Arko Mukherjee, Harshit Sinha, Aminul Islam, "A Novel Concept of Metal-Piezo Thermal Sensor and Energy Harvester," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 37– 41, Print ISBN: 81-85824-46-0.
20. Sagnik Saha, Soham Banerjee, Chandaramauleshwar Roy, Aminul Islam, "Comparative analysis of 7T SRAM cells in subthreshold regime at 16nm technology node," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 1, pp. 79– 82, Print ISBN: 81-85824-46-0.
21. Rishav Raj, Ashish Kumar, A. Islam, "Characterization of AlInN and GaN Based HEMT Using AlN as Interfacial Spacer Layer and Si₃N₄ Passivation Layer," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 6– 10, Print ISBN: 81-85824-46-0.
22. Pratyush Dwivedi, Krishna Kumar, Rishab Mehra, Aminul Islam, "Analysis and Characterization of a Titanium Oxide Memristor," *5th International Conference on Computing, Communication and Sensor Network (CCSN-2016)*, Kolkata, India, Dec. 24-25, 2016, vol. 2, pp. 1– 5, Print ISBN: 81-85824-46-0.
23. Manisha Guduri, Sananya Majumder, Riya, Aminul Islam, "Circuit Level Power Reduction Techniques for Robust Carry-Skip Adder Circuit," *International Conference on Microelectronics, Circuits and Systems (Micro2016)*, Kolkata, India, 9-10 Jul. 2016, pp. 410-415, Print ISBN: 978-93-80813-45-5.
24. Vikash Kumar, Aminul Islam, "Design of Active Grounded Inductor Based Bandpass Filter for Analog Signal Processing Applications," *International Conference on Microelectronics, Circuits and Systems (Micro2016)*, Kolkata, India, 9-10 Jul. 2016, pp. 360-362, Print ISBN: 978-93-80813-45-5.

25. Amresh Kumar, Aminul Islam, "Performance Evaluation of D Flip-Flop Across 3 Different Technologies – MOSFET, CNFET and FinFET," *International Conference on Microelectronics, Circuits and Systems (Micro2016)*, Kolkata, India, 9-10 Jul. 2016, pp. 168-172, Print ISBN: 978-93-80813-45-5.
26. Ankan Dutta, Yashdeep Singh, Vikash Kumar and Aminul Islam," Comparative Analysis of Delay and Variability of D Flip-Flops," *International Conference on Microelectronics, Circuits and Systems (Micro2016)*, Kolkata, India, 9-10 Jul. 2016, pp. 144-147, Print ISBN: 978-93-80813-45-5.
27. Indranil Chatterjee, Lakshya Jain, Aminul, "Analysis of PPV-Based Organic FET having Au Source-Drain Contacts for Obtaining Output and Transconductance Characteristics," *International Conference on Microelectronics, Circuits and Systems (Micro2016)*, Kolkata, India, 9-10 Jul. 2016, pp. 135-138, Print ISBN: 978-93-80813-45-5.
28. Priya Kumari and Janardan Sahay, "An Investigation on RF Energy Harvesting", *IEEE International Conference on Innovations in Power and Advanced Computing Technologies [I-PACT 2017]*, 17-18 April -2017.
29. Rupesh Kumar Sinha, Dr. Mrinal Mishra, Dr.S.S. Sahu, "Quantum Key Distribution: Simulation of BB84 Protocol in C", *2nd International Conference on Engineering Technology, Science and Management Innovation (ICETSMI-2017)*, NITTTR, MHRD, Govt. of India. Chandigarh, India, 15th Jan 2017.
30. Rupesh Kumar Sinha, C. Ashmita, Shruti Uikey, Rahul Makoto Singh, "Anti-lock and Automatic Braking Systems", *Proceedings of ASAR International Conference*, Rourkela, India, 29 Jan 2017, ISBN: 978-93-86291-40-0.
31. Anamika Kumari and Anjini Kumar Tiwary, "Design and Development of Microstrip Lowpass-Bandpass Diplexer, International Conference on Innovations in Information", *Embedded and Communication Systems (ICIES-17)*, pp. 417-419, March 17-18, 2017, India. (ISBN: 978-1-5090-0395-2).
32. Akanksha singh, S. K. Dash and V. R. Gupta," Dual Feed Planar Inverted-F Antenna for MIMO Application", *International Conference on Innovations in Power and Advanced Computing Technologies (I-PACT 2017)*, VIT University, 21-22 April 2017.
33. Shalu Pandey, Vibha Rani Gupta, "Implantable Antenna for Blood Glucose Monitoring", *International Conference on NextGen Electronics Technologies: Silicon to Software*, VIT Chennai, 23-25 March 2017. (*Best Paper Award in Optical and Microwave Technologies*).
34. Shreya Moonka, Anushruti Priya, Akshat Chitransh, Santashraya Prasad, Anumita Sengupta, Aminul Islam "Analysis of Al_{0.22}Ga_{0.78}As /In_{0.18}Ga_{0.82}As/GaAs Pseudomorphic HEMT

Device with Higher Conductivity", *DevIC 2017, IEEE Conference*, Kalyani Govt. Engg. College, pp. 360 – 363, 23-24 March, 2017.

35. Anushruti Priya, Shreya Moonka, Akshat Chitransh, Santashraya Prasad, Anumita Sengupta, Aminul Islam, "Development of HEMT Device with Surface Passivation for a Low Leakage Current and Steep Subthreshold Slope", *DevIC 2017, IEEE Conference*, Kalyani Govt. Engg. College pp. 364 – 367, 23-24 March 2017.
36. Akshat Chitransh, Shreya Moonka, Anushruti Priya, Santashraya Prasad, Anumita Sengupta, Aminul Islam "Analysis of Breakdown Voltage of a Field Plated High Electron Mobility Transistor", *DevIC 2017, IEEE Conference*, Kalyani Govt. Engg.Colleg ,pp.167 – 169 ,23-24 March 2017.
37. Uday Kumar, Dileep Kumar Upadhyay, Babu Lal Shahu, "Improvement of Performance parameters of rectangular patch antenna using metamaterial", *IEEE International Conference on Recent Trends In Electronics Information Communication Technology (RTEICT-2016)*, pp. 1041-1045, 2016.
38. Pankaj Kumar Das, Dileep Kr. Upadhyay, Babu Lal Shahu "Design and Development of a frequency Reconfigurable Annular Ring Slot Triangular Patch Antenna", *IEEE International Conference on Recent Trends In Electronics Information Communication Technology (RTEICT-2016)*, (Poster presented paper) pp. 20-23, 2016.
39. Sushant Anand, Ramendra Kumar Raj, Surbhi Sinha, D.K. Upadhyay, Gajendra Kant Mishra, "Bandwidth Reconfigurable Patch Antenna for Next Generation Wireless Communication System Applications", *IEEE International Conference on Emerging Trends in Communication Technologies (ETCT'16)*, pp. 1-5, 2016.
40. Jai Utkarsh, Aman Kumar Lall, D. K. Upadhyay, G. K. Mishra "Frequency Reconfigurable Bandpass Filter for IMT-A Applications", *2nd IEEE International Conference on Computing and Communications Technologies (ICCCT'17)*, pp. 46-48, 2017.
41. Jai Utkarsh, Ramendra Kumar Raj, Aman Kumar Lall, D. K. Upadhyay, Gajendra Kant Mishra "Reconfigurable Bandpass Filter for use of 2.7-3.1 GHz Radar Spectrum", *IEEE International Conference on Emerging Trends in Communication Technologies (ETCT'16)*, pp. 1-4, 2016.
42. Aman Kumar Lall, Jai Utkarsh, D.K. Upadhyay, G. K. Mishra "Reconfigurable Patch Antenna for Bandwidth Control for Point to Point Communication", *2nd IEEE International Conference on Computing and Communications Technologies (ICCCT'17)*, pp. 87-89, 2017.
43. Shivam Shekhar, Ajit Kumar and S. K. Ghorai, "Analysis of ICA MIMO-OFDM VLC System with Different FOV Based Photodetectors", *IEEE International Conference on Recent Trends in*

Electronics Information Communication Technology, Sri Venkateshwara College of Engineering, Bangaluru, May 19-20, 2017.

44. Ajit Kumar and S. K. Ghorai, "Reduction of Channel Correlation for Multiuser- MIMO System in Visible Light Communications", *IEEE Sponsored International conference on signal processing and communication*, Jaypee Institute of Information Technology, Noida, Dec. 26-28, 2016.
45. Shailendra Singh, Srikanta Pal, Madhur Deo Upadhyay, "Generation of OAM modes using Radially Oriented Circular Array", *Proc. of IEEE-Asia Pacific Microwave Conference (APMC)*, Delhi, 5-9 December, 2016, IEEE, DOI: 10.1109/APMC.2016.7931340, May 2017.
46. Babu Linkoon P Meenaketan, Srikanta Pal and N. Chattoraj, "Inverse Scattering Using Scattered Field Pattern", *Proceedings of the IEEE-International Symposium on Antennas and Propagation*, Dec 15-17, Cochin, 2016.
47. Arjun Abhishek, Vishal H. Shah, Prajna Parimita Dash. "Efficient Image Inpainting using Morphological Structuring Element", *6th International Conference on Engineering Technology, Science and Management Innovation (ICETSMI-2017)*. IETE, 11th June 2017.
48. Aditi Rani and Sanjeet Kumar, "A Low Complexity Security Algorithm for Wireless Sensor Networks", *IEEE International Conference on Innovations in Power and Advanced Computing Technologies (I-PACT 2017)*, VIT University, Vellore, 21-22 April 2017.
49. Aditi Rani and Sanjeet Kumar, "A survey of security in wireless sensor networks", *IEEE Third International Conference on Computational Intelligence and Communication Technology (CICT 2017)*, Ghaziabad, 9-12 February 2017.
50. Kamlesh Kishore, Kartik Mahto and Arvind Kumar, "Automatic Raga Classification Based on THAAT", *IRF International Conference*, Kolkata, 26th Feb. 2017.
51. Mukul M.K., "DWT Based Source Localization Using Microphone Array", In: Abraham A., Cherukuri A., Madureira A., Muda A. (eds) *Proceedings of the Eighth International Conference on Soft Computing and Pattern Recognition (SoCPaR 2016)*, SoCPaR 2016. Advances in Intelligent Systems and Computing, vol 614. Springer, Cham, https://doi.org/10.1007/978-3-319-60618-7_22, Print ISBN 978-3-319-60617-0.
52. Sweta kumari, Sitanshu Sekhar Sahu and Bharat Gupta, "A Thyristor based Self Start up Integrated Circuit for Piezo-Electric Energy Harvester", *International Conference on Intelligent Computing and Control*, Coimbatore, 23-24 June. 2017, pp: 94-98. (ISBN: 978-1-5386-0373-4).
53. Sweta kumari, Sitanshu Sekhar Sahu and Bharat Gupta, "A Low Voltage Pre Start Up Circuit for Thermal Energy Harvesting Applications", *IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, 22 -24 March, 2017, pp-1999-2002. (Doi: 978-1-5090-4442-9/17).

54. Spriha Chandrayan, Aarushi Agarwal, Mohammad Arif, Sitanshu S Sahu, " Selection of dominant voice features for accurate detection of Parkinson's disease", *IEEE International Conference on Biosignals, Images and Instrumentation (ICBSII)*, 2017, 7-8 March, Chennai, India (doi: 978-1-5090-4980-6/17).
55. R.K.Sinha and S.S.Sahu, "Quantum Key Distribution: Simulation of BB84 Protocol in C", *International conference on Engineering Technology, Science and Management Innovation*, 15th Jan, Chandigarh, India, 2017 (ISSN: 2345-117X).
56. Vishal H. Shah, Darpan Singh, Abhinav Mishra, Ganpata Prasad, "Genetic Algorithm Assessment: Varying population size and mutation rate", *International conference on Electrical, Electronics, Computer Science, Mathematics, Physical Education and Management*, March 2017, Delhi.
57. Gajendra Kant Mishra, "A Compact Monopole Antenna design using Fractal Geometries for Next Generation Super Wideband Wireless Communication Applications", *2nd International Conference on Research Trends in Engineering, Applied Science and Management (ICRTE SM)-2017*.

Published in book chapters

2016-2017

1. Sarita Kumari, Rishab Mehra, Amit Krishna Dwivedi, Aminul Islam, "Estimation of MOS Capacitance Across Different Technology Nodes," one chapter contributed to the book subtitled "*Proceedings of the First International Conference on Intelligent Computing and Communication*" pp. 297-306, Copyright: 2017, Print ISBN: 978-981-10-2034-6, Online ISBN: 978-981-10-2035-3, *Series Title: Advances in Intelligent Systems and Computing*, Series Volume: 458, Series ISSN: 2194-5357, Publisher: Springer Singapore, Copyright Holder: Springer Science+Business Media Singapore, Editors: Jyotsna Kumar Mandal, Suresh Chandra Satapathy, Manas Kumar Sanyal, Vikrant Bhateja, Series Editor: Janusz Kacprzyk, DOI: 10.1007/978-981-10-2035-3_30, Date of Publication: 23 November 2016. http://link.springer.com/chapter/10.1007/978-981-10-2035-3_30.
2. Rishab Mehra, Sarita Kumari, Aminul Islam, "Cross-Coupled Dynamic CMOS Latches: Scalability Analysis," one chapter contributed to the book subtitled "*Proceedings of the First International Conference on Intelligent Computing and Communication*" pp. 307-315, Copyright: 2017, Print ISBN: 978-981-10-2034-6, Online ISBN: 978-981-10-2035-3, *Series Title: Advances in Intelligent*

Systems and Computing, Series Volume: 458, Series ISSN: 2194-5357, Publisher: Springer Singapore, Copyright Holder: Springer Science+Business Media Singapore, Editors: Jyotsna Kumar Mandal, Suresh Chandra Satapathy, Manas Kumar Sanyal, Vikrant Bhateja, Series Editor: Janusz Kacprzyk, DOI: 10.1007/978-981-10-2035-3_31, Date of Publication: 23 November 2016, http://link.springer.com/chapter/10.1007/978-981-10-2035-3_31.

3. Rishab Mehra, Swapnil Sourav, Aminul Islam, "Cross-Coupled Dynamic CMOS Latches: Part 2- Robustness Study of Timing," one chapter contributed to the book subtitled "*Proceedings of the First International Conference on Intelligent Computing and Communication*" pp. 317-325, Copyright: 2017, Print ISBN: 978-981-10-2034-6, Online ISBN: 978-981-10-2035-3, *Series Title: Advances in Intelligent Systems and Computing*, Series Volume: 458, Series ISSN: 2194-5357, Publisher: Springer Singapore, Copyright Holder: Springer Science+Business Media Singapore, Editors: Jyotsna Kumar Mandal, Suresh Chandra Satapathy, Manas Kumar Sanyal, Vikrant Bhateja, Series Editor: Janusz Kacprzyk, DOI: 10.1007/978-981-10-2035-3_32, Date of Publication: 23 November 2016, http://link.springer.com/chapter/10.1007/978-981-10-2035-3_32.
4. Pandey Abhishek, Javed Khan M., Prasad Deepak., Nath Vijay, Solanki S.S., Singh L.K. (2017) Switched Capacitor Circuit Realization of Sigma-Delta ADC for Temperature Sensor. In: Singh R., Choudhury S. (eds) *Proceeding of International Conference on Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing*, Vol 479, pp 1129-1135. Springer, Singapore, https://doi.org/10.1007/978-981-10-1708-7_134 Scopus Book Chapter.
5. Deepak Prasad, Ashutosh Pranav, Apoorva Nimbargi, Jyoti Singh, Madhu Kumari Ray, Manish Mishra, Manish Kumar and Vijay Nath (2017), "Design of 30 MHz CMOS Operational Amplifier", In: Singh R., Choudhury S. (eds) *Proceeding of International Conference on Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing*, Vol. 479, pp 519-525, Springer, Singapore, https://doi.org/10.1007/978-981-10-1708-7_59 Scopus Book Chapter.
6. Adesh Kumar, Gaurav Verma, Vijay Nath and Sushabhan Choudhury (2017), "IC Packaging: 3D IC Technology and Methods", In: Nath V. (eds) *Proceedings of the International Conference on Nano-electronics, Circuits & Communication Systems. Lecture Notes in Electrical Engineering*, Vol 403, pp.303-317. Springer, Singapore, https://doi.org/10.1007/978-981-10-2999-8_25, Scopus Book Chapter.
7. Sarika Tyagi, Swapnil Saurav, Abhishek Pandey, Padma Priyadarshini, Madhu Ray, B.B. Pal and Vijay Nath (2017), "A 21nW CMOS Operational Amplifier for Biomedical Application. In: Nath V. (eds) *Proceedings of the International Conference on Nano-electronics, Circuits & Communication Systems. Lecture Notes in Electrical Engineering*, Vol. 403, pp 389-396. Springer, Singapore, https://doi.org/10.1007/978-981-10-2999-8_33 Scopus Book Chapter.

8. Varun Kumar, Krishan Kumar Singh, Abhishek Pandey and Vijay Nath, (2017)', "Design of Comparator in Sigma-Delta ADC Using 45 nm CMOS Technology", In: Nath V. (eds) *Proceedings of the International Conference on Nano-electronics, Circuits & Communication Systems. Lecture Notes in Electrical Engineering*, Vol 403, pp381-387. Springer, Singapore, https://doi.org/10.1007/978-981-10-2999-8_32 Scopus Book Chapter.
9. Agnish Mal, Akshat Chitransh, Harsh Srivastava, Suraj Kumar Saw and Vijay Nath (2017), "Analysis of a Self-compensating, Low-Noise, Low-Power PLL Circuit @ 45-nm Technology Node", In: Nath V. (eds) *Proceedings of the International Conference on Nano-electronics, Circuits & Communication Systems. Lecture Notes in Electrical Engineering*, Vol 403, pp361-370. Springer, Singapore, https://doi.org/10.1007/978-981-10-2999-8_30.
10. Bhavya Ishaan, Anu Kumari, M. Malkani, and Sanjeet Kumar, "Key Identifications Using Hebbian Learning", *Springer book Chapter: Security in Computing and Communications*, Volume 625, pp 124-133, September 2016. (ISBN: 978-981-10-2737-6).

Book Published

2016-2017

1. "Signal Analysis of Hindustani Classical Music", Ashoke Kumar Datta, Sandeep Singh Solanki, Ranjan Sengupta, Soubhik Chakraborty, Kartik Mahto, Anirban Patranabis, Publisher- *Springer*, ASIN:B06XJK4KR3, Publishing Date- 10th March 2017.