

List of Publications by our faculty members during 2014-15:

International Journals

- i. Y. Bulo, S. K. Chakraborty and C. T. Bhunia: "New Protocol of Aggressive Packet Combining Scheme," International Journal of Computer Applications, USA, (0975-8887), Volume **85**-No. 6, pp. 17-20, January 2014.
- ii. S. Ningthoujam, S. K. Chakraborty and C. T. Bhunia: "New Techniques of Aggressive Packet Combining with multiple routes selection," International Journal of Advanced Electronics & Communication Systems, ISSN NO: 2277-7318, Approved by CSIR-NISCAIR, ISSUE 5 VOL **3**, Oct-Nov 2014.
- iii. R. S. Goswami, S. K. Chakraborty, A. Bhunia and C. T. Bhunia: "An Effective Code Breaking Scheme," International Journal on Current Science & Technology, Vol. **2**, No-1, 2014.
- iv. S. K. Chakraborty, R. S. Goswami, A. Bhunia and C. T. Bhunia: "Two New Schemes of Aggressive Packet Combining," International Journal on Current Science & Technology, Vol-2, No-1, Jan-June, 2014.
- v. A. K. Saha, H. Paul, and P. P. Deb: "Integration of Caching and Prefetching in Proxy Server," International Journal of Engineering (IJERT), Vol. **3** - Issue 3 (March – 2014).
- vi. K. Saha, K. Sambyo and C. T. Bhunia: "A Survey on Green Computing: Need for Future Generation of Energy Savings," International Journal on Current Science & Technology, Vol -**2**, No.1, pp. 267, Jan-June-2014.
- vii. K. C. Baruah, S. Banerjee, M. P. Dutta, and C. T. Bhunia: "An improved Biometric based Multi Server Authentication Scheme Using Smart Card," International Journal of Security and Its Applications, Vol. **09**, No.01, pp.397-408, 2015.
- viii. A. Mondal, S. Maity, et al.: "Fabrication and packaging of MEMS based platform for hydrogen sensor using ZnO-SnO₂ composites," MicrosystTechnol, Vol. **21**, Issue No.146 (2015).
- ix. S. Maity and C. T. Bhunia: "Experimental study of some effective surface parameters of crystalline silicon solar cell for getting better performance," International Journal Of Engineers (IJE) Vol. **28**, No. 1, (2015).
- x. S. Maity and C. T. Bhunia: "Improvement of Some Effective Parameters of C-Si Solar Cell for Better Efficiency," ACTA TECHNICA NAPOCENSIS, Vol. **55**, Number 3, pp.4, 2014.
- xi. S. Maity, S. Dey, C. T. Bhunia and H. Saha: "Improvement of front side Contact by Light Induced Plating of c-Si Solar Cell," JOURNAL OF NANO-AND ELECTRONIC PHYSICS, 2014, 6(4), pp. 04005-1-7.
- xii. V. Hanumante, P. Bhattacharjee, S. Roy, P. Chakraborty and S. Maity: "Performance Analysis of Rectangular Patch Antenna for Different Substrate

- Heights,” *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering* pp 515-518, January 2014.
- xiii. V. Hanumante, R. Debnath, D. Bhattacharjee, D. Tripathi and S. Roy: “English Text to Multilingual Speech Translator Using Android,” *International Journal of Inventive Engineering and Sciences*. Vol. **2**, Issue-5, pp 4-9, April 2014.
- xiv. Bhattacharjee, D. Tripathi, R. Debnath, V. Hanumante and S. Roy: “A Novel Approach for Character Recognition,” in *International Journal of Engineering Trends and Technology*, Vol. **10**, Number 6, pp 271-275, April, 2014.
- xv. V. Hanumante, P. Bhattacharjee, K. Mukherjee and S. Roy: “Bandwidth Optimization of Rectangular Patch Antenna for Wireless LAN,” in *International Journal on Current Science & Technology*, Vol.**2**, No.1, pp 251-252 , Jan-June 2014.
- xvi. S. K. Metya and V. Janyani: “Improved Dispersion Tolerance of Miller Coding by Integrating Duobinary Coding”, *Optical and Quantum Electronics*, Springer, US, Vol. **47**, no. 2, pp 125-130, Feb. 2015.
- xvii. N. Pramanik and A. K. Atta: “Phosphonic acid based hydroxyapatite and its biocompatibility”, *International Journal on Current Science & Technology*, Vol. 2, (2014) pp.273-276.
- xviii. S Maity: “Thermocapillary flow of thin liquid film over a porous stretching sheet in presence of suction/injection,” *Int. J. of Heat and Mass Transfer*, **70**, 819-826, 2014.
- xix. S. Sankar, A. K. Nagar and A. V. Kumar: “Mathematical Analysis of Single and Two Phase Flow of Blood in Narrow Arteries with Multiple Constrictions,” *J. App. Fluid Mech.*,**9**(1), January 2016 (Available Online).
- xx. M. K.Shome, K. Murthy, andLuthra. “Perception of Work Environment in a Private Engineering College: A Study of Gender Differences, Race, Gender & Class,” journal, Volume 21, issues 1-2, 2014.
- xxi. M.K. Shome, (in press, 2014) “Corporate Social Responsibility in India-Issues and challenges” to be published by Cambridge University Press.
- xxii. J. Borah, S. K. Singh and A. D. Borah: “Cellular Base Station and its Greening Issues,” *IJAECs*, Vol. 3, No.2, pp.1-4, April-May 2014.
- xxiii. J. Borah, S. K. Singh and A. D. Borah: “A Comparative study on scaling of Nano and Pico-scale MOSFET,” *IJCA*, Vol. 99, No.2, pp.15-18, August 2014.
- xxiv. S. K. Singh, A. D. Borah and J. Borah: “TiO₂ thin film coated with Silver (Ag) nano-particles for Solar cell application,” *IJAECs*, Vol. 3, No.5, pp., Oct-Nov 2014.
- xxv. R. Saha and S. Maity: “Design of Mu-Negative Metamaterial Structures on Rectangular Patch Antenna for RFID Application,” *IJAECs*, ISSUE 5 VOL 3, Oct-Nov, 2014.

- xxvi. R. Saha, C. T. Bhunia and S. Maity: "Design of Micromachining Based Patch Antenna to Enhance Performances for RFID Tag Application," IJFGCN, Vol. 8, No. 1 (2015), pp. 261-268.
- xxvii. S. Ningthoujam, S. K. Chakraborty and C. T. Bhunia: "New Modified Technique of Aggressive Packet Combining scheme To Achieve Higher Throughput with Multiple Routes," IJAECs, Vol.3, Issue 5.
- xxviii. T. A. Sheikh, D. Muchahary and K. C. Baruah: "A Survey of Reduction the Interference on Cellular Communication System," IJCA, vol. 95, no.10, June.2014.
- xxix. T. A. Sheikh, D. Muchahary and K. C. Baruah: "Some Power Management Technology and Algorithm in Mobile Ad Hoc Network," IJAECs.
- xxx. T. A. Sheikh, J. Borah and S. Roy: "Miniaturized Tri-Band BPF using Asymmetric SIRs and DGS," IJSIP, pp.337-346, Jan.2015.
- xxxi. D. Borah, D. Muchahary, S. K. Singh, and J. Borah: "Power Saving Strategies in Green Cloud Computing Systems," IJGDC, Vol. 8, no. 1, pp. 299-306, 2015.
- xxxii. K. C. Baruah, S. Banerjee, M. P. Dutta and C. T. Bhunia: "An Improved Biometric-based Multi-server Authentication Scheme Using Smart Card," IJSIA, Vol.9, No.1, pp.397-408, 2015.
- xxxiii. S. Bhattacharjee: "Design of meta-materials based smart patch antennas for green cellular networks," IJAECs, Vol.3, No.5, 2014.

National Journals

- i. S. K. Chakraborty, R. S.Goswami, A.Bhunia and C. T Bhunia: "Investigation of Two New Protocols of Aggressive Packet combining scheme in achieving better throughput," Published to Journal of the Institute of Engineers (India) B, Springer, DOI: 10.1007/ s40031 -014-0135-7.
- ii. R. S.Goswami,S. K. Chakraborty, A.Bhunia, and C. T.Bhunia: "Generation of Automatic Variable Key under Various Approaches in Cryptography System," Published to Journal of the Institute of Engineers (India) B, Springer, DOI: 10.1007/ s40031 -013-0066-8.
- iii. R. S.Goswami, S. K. Chakraborty, A.Bhunia, and C. T.Bhunia: "New Techniques for Generating of Automatic Variable Key in Achieving Perfect Security,"Published to Journal of the Institute of Engineers (India) B, Springer, DOI: 10.1007/ s40031 -014-0103-2.
- iv. Shome, M. K. and Luthra, D.: "Perception of Work Environment in a Private Engineering College: A Study of Gender Differences, Race, Gender & Class," journal, Volume 21, issues 1-2, 2014.

Conferences

- i. S. K. Chakraborty, R. S. Goswami, A. Bhunia, and C. T. Bhunia: "Method of Non Majority Decision Making In Aggressive Packet Combining Scheme," IEEE, ITNG, IEEE Computer Society, CPS, Las Vegas, 2014.

- ii. S. K. Chakraborty, R. S. Goswami, A. Bhunia, and C. T. Bhunia: "New Protocol of Aggressive Packet Combining in Gilbert Two State Model," IEEE, CIEC, University of Calcutta, 2014.
- iii. A. K. Saha, K. Sambyo, and C. T. Bhunia: "Integration of DVFS and Multi CPUs scaling in a multi processor," International IEEE conference on Electronic Design, Computer Networks and Automated Verification, 29-30th January 2015, NIT Meghalaya, Shillong.
- iv. V. K. Singh, S. Banerjee, M. P. Dutta, and C. T. Bhunia: "Generation of Automatic Variable Key to Make Secure Communication," International Conference on Recent cognizance in wireless communication & image processing-ICRCWIP-2014 (ICRCWIP2014), Springer.
- v. K. Sambyo, and C. T. Bhunia: "Application of Multi Level ATM in Reducing Latency in Clouds for Performance Improvement of Integrated Voice, Video and Data Services," 2014 11th International Conference on Information Technology: New Generations, ITNG 2014, Las Vegas, Nevada, USA.
- vi. S. Maity, P. Chakraborty and S. Maji: "Improvement of solar cell efficiency and better contacts through singular texturization approach,"(P-434-439, CIEC14-CFP, IEEE, 2014).
- vii. S. Maity, S. Sahoo, V. Tiwari, C. P. Yadav and P. Chakraborty: "Improvement of front side contact of solar cell through Light Induced Plating without any external bias at different conditions,"IEEE-Kolkata, MICRO-2014
- viii. S. Maity, A. Kundu, S. Das and P. Chakraborty: "Reduction of reflectance at c-silicon solar cell using nanotexturization,"P-349-351, ICDCS-2014, IEEE.
- ix. S. Maity, R. Sangno, V. Kartik, P. P. Sahu and C. T. Bhunia: "Silicon Nitride dielectric optimization and characterization for solar cell application," ICPDEN 2015, IEEE Kolkata.
- x. S. Maity, P. Chakraborty, R. Raushan, C. T. Bhunia and P. P. Sahu: "A compact series resistance model of solar cell for parametric study," SICRCWIP2015, Springer.
- xi. S. Roy and C. T. Bhunia: "Minimization Algorithm for Multiple Input to Two Input Variables," 2014 International Conference on Control, Instrumentation, Energy and Communication (CIEC), IEEE Conference, Kolkata pp 622-624, Jan 2014.
- xii. S. Roy and C. T. Bhunia: "Constraints Analysis for Minimization of Multiple Inputs Logic Programming," in International Conference on Signal and Speech Processing (ICSSP-14), pp. 61-64, Kollam, Aug 2014.
- xiii. T. A. Sheikh, J. Borah and S. Roy: "Bandwidth Improvement in BPF using Microstrip Couple lines," in International Conference on Signal and Speech Processing (ICSSP-14), pp. 105-109, Kollam, Aug2014.

- xiv. Taipodia et al: "Geophysical Investigations for identifications of subsurface Stratigraphy," at IITG, Proceedings of Indian Geo-technical Conference IGC-2014,dec 18-20, Kakinada,India.
- xv. Shome, M.K. and Mukherjee, D.: (Accepted 2014) A study of present scenario in Indian universities, Fall 2014 issue of AUJMR.
- xvi. R.Pudur, et.al "Wireless Power Transmission:A Survey", IEEE, Internatinal Conference on Recent Advances and Innovations in Engineering (ICRAIE-2014) May-09-11, 2014, Jaipur India.
- xvii. R.Pudur, et.al: 'Study of unsymmetrical faults in power system using Morlet wavelet technique" IEEE, SCEECS-2014,March 1-4, Bhopal, India
- xviii. R. Pudur, S.Gao: "Savonius rotor based hydropower generation" International Symposium on AMETI 2014 (p 104 – 111), 6th -8th Dec 2014,ISBN 978-93-83842-96-4, NERIST.
- xix. R. Pudur, S. Gao "Performance analysis of Savonius rotor on different aspect ratio for hydropower generation"ICPDEN, 10th – 11th Jan 2015 IEEE, NERIST
- xx. R. Pudur,S. Gao "Single phase power for remote area using Savonius rotor based hydropower generation" IEEE, International Conference on Energy, Power and Environment (ICEPE) 12-13, June 2015 NIT Meghalaya.
- xxi. M.K. Shome, and S.Jana, (2014).Talent Management: Role of HR in creating organizational excellence. In A.K.Mukhopadhyay and S.Dasgupta (Eds.) 1st International conference on Challenges in Management and Information Technology, organized by Bengal College of Engineering and Technology in Association with NIT,Durgapur. Conference proceedings.
- xxii. R. Saha, S. Bhattacharjee, C. T. Bhunia and S. Maity: "Dual band operation Using Met material Structure for Radio Frequency Identification (RFID) system," ICSPCT, 978-1-4799-3140-8/14/\$31.00 ©2014 IEEE, pp.: 16-19.
- xxiii. R. Saha and S. Maity: "Design of O-shape Metamaterial Structure on Rectangular Patch Antenna for RFID Application," IEEE EESCO – 2015.
- xxiv. S. Bhattacharjee, R. Saha and S. Maity: "Metamaterial based patch antenna with omega shaped slot for RFID system," ICAETR – 2014.
- xxv. S. Bhattacharjee, R. Saha and S. Maity: "Antenna design and optimization for RFID tag using Negative μ and ϵ material," APCMET-2014, at JNU.
- xxvi. R. Saha, S. Maity and L. Sarkar: "A novel MEMS based frequency tunable rectangular patch antenna," ICRCWIP-2014, PIET, Jaipur.
- xxvii. S. Bhattacharjee and S. Maity: "Miniaturization of MEMS based smart patch antennas for bio- medical applications," ICRCWIP-2014.
- xxviii. T. A. Sheikh, J. Borah, S. Roy and A. K. Pandey: "A New Compact Dual Band Microstrip BPF for GSM-1800 and WiMAX Using Asymmetric Stepped Impedance Resonators," ICRCWIP, Jan.2015.

- xxix. N. M. Devi and S. Maity: "Metamaterial-based miniaturized CPW band stop filter design on silicon substrate for microwave application," ICCICCT-2014.
- xxx. N. M. Devi and S. Maity: "Design and Optimization of Band stop filter using metamaterial structures for K-band applications," ICRCWIP-2014.
- xxxii. Muchahary, A. J. Mondal and A. Majumder: "A CORDIC based Design Technique for Efficient Computation of DCT," IEEE ICCSP (2015).
- xxxiii. Muchahary, A. J. Mondal, R. S. Parmar, A. D. Borah and A. Majumder: "A Simplified Design Approach for Efficient Computation of DCT," IEEE CSNT (2015).
- xxxiiii. A. D. Borah, A. J. Mondal, D. Muchahary and A. Majumder: "FIR Low Pass filter design using Crazyness Base Particle Swarm Optimization Technique," IEEE ICCSP (2015).
- xxxv. Sarkar, S. K. Dubey, B. Madhury and S. Maity: "CNT based biomedical sensor for cancer detection," ICRCWIP-2014.
- xxxvi. Sarkar, S. K. Dubey, B. Madhury, P. C. Chakraborty, C. T. Bhunia and S. Maity: "A simple MEMS structure as effective methane gas sensing application," ICMCS - 2014, IEEE.
- xxxvii. Sarkar, S. K. Dubey, B. Madhury and S. Maity: "Gas sensing array design through ANN & implementation through MEMS," APCMET- 2014.
- xxxviii. R. Khumukcham, Y. Saring and C. T. Bhunia: "Performance Analysis of PC and APC for Wireless Network," ICRCWIP-2014.
- xxxix. Majumder, B. Chowdhury and P. L. Singh: "Synthesis and Realization of N-bit Reversible Register File Used in Bus Organization of Processor Architecture," ICRTC 2015, Elsevier.
- xl. Majumder, P. L. Singh, B. Chowdhury and A. J. Mondal: "Efficient design and analysis of N-bit reversible shift registers," ICRTC 2015, Elsevier.
- xli. P. L. Singh, A. Majumder, B. Chowdhury and A. J. Mondal: "Reducing delay and quantum cost in the novel design of reversible memory elements," ICRTC 2015, Elsevier.
- xlii. P.L. Singh, A. Majumder, B. Chowdhury, R. Singh and N. Mishra: "A Novel Realization of Reversible LFSR for its Application in Cryptography," IEEE, SPIN-2015.
- xliii. Sarkar, S. K. Dubey, B. Madhury, P. C. Chakraborty, C. T. Bhunia and S. Maity: "A Simple MEMS Structure as Effective Methane Gas Sensing Application Digital Library," ISBN : 973-93-80883-43-4.
- xliiii. S.Bhattacharjee: "Design of meta-materials based smart patch antennas for green cellular networks," IJAECs, Vol.3, No.5, 2014.
- xliv. S. Dubey, L. Sarkar, R. Roushan and SantanuMaity: "Modeling and Simulation of Solar cell Depending on temperature and light intensity," ISBN: 978-93-83083-73-2, P-265-272, APCMET-2014.

List of Publications by the Students of the Institute (Journals & Conferences)

- i. A. Majumder, P. L. Singh, N. Mishra, A. J. Mondal and B. Chowdhury: "A Novel Delay and Quantum Cost Efficient Reversible Realization of $2^i X_j$ RAM," IEEE-VLSI SATA-2015.
- ii. J. Borah, S. K. Singh and A. D. Borah: "Cellular Base Station and its Greening Issues," IJAECS, Vol. 3, No.2, pp.1-4, April-May 2014.
- iii. J. Borah, S. K. Singh and A. D. Borah: "A Comparative study on scaling of Nano and Pico-scale MOSFET," IJCA, Vol. 99, No.2, pp.15-18, August 2014.
- iv. S. K. Singh, A. D. Borah and J. Borah: "TiO₂ thin film coated with Silver (Ag) nano-particles for Solar cell application," IJAECS, Vol. 3, No.5, pp., Oct-Nov 2014.
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- xii. K. Singh, S. Banerjee, M. P. Dutta and C. T. Bhunia: "Generation of Automatic Variable key to make secure communication," ICRCWIP-2014.
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- xv. T. A. Sheikh, J. Borah and S. Roy: "Bandwidth Improvement in BPF using Microstrip Couple lines," ICSSP'14, pp.105-109 Aug.2014.

- xvi. T. A. Sheikh, D. Muchahary and K. C. Baruah: "A Survey of Reduction the Interference on Cellular Communication System," IJCA, vol. 95, no.10, June.2014.
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- xxxi. Majumder, B. Chowdhury and P. L. Singh: "Synthesis and Realization of N-bit Reversible Register File Used in Bus Organization of Processor Architecture," ICRTC 2015, Elsevier.
- xxxii. Majumder, P. L. Singh, B. Chowdhury and A. J. Mondal: "Efficient design and analysis of N-bit reversible shift registers," ICRTC 2015, Elsevier.

- xxxiii. P. L. Singh, A. Majumder, B. Chowdhury and A. J. Mondal: "Reducing delay and quantum cost in the novel design of reversible memory elements," ICRTC 2015, Elsevier.
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- xxxv. Sarkar, S. K. Dubey, B. Madhury, P. C. Chakraborty, C. T. Bhunia and S. Maity: "A Simple MEMS Structure as Effective Methane Gas Sensing Application Digital Library," ISBN : 973-93-80883-43-4.
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