

Selected List of Publications in the relevant area

- [1] S. Saha, S. Nandi, P. S. Paul, V. Shah, A. Roy, S.K Das “Designing delay constrained hybrid ad hoc network infrastructure for post-disaster communication” Elsevier Journal of Ad Hoc Networks (DOI: 10.1016/j.adhoc.2014.08.009.), 2015.
- [2] Sujoy Saha, Subrata Nandi, Rohit Verma, Satadal Sengupta, Kartikeya Singh, Vivek Sinha, Sajal K. Das, ”Design of Efficient Lightweight Strategies to Combat DoS Aack in Delay Tolerant Network Routing” Journal of Wireless Networks (Springer), 2016.
- [3] Rohit Verma, Aviral Shrivastava, Bivas Mitra, Sujoy Saha, Niloy Ganguly, Subrata Nandi and Sandip Chakraborty, “UrbanEye: An Outdoor Localization System for Public Transport”, in proc. of the the Annual IEEE International Conference on Computer Communications (IEEE INFOCOM 2016), San Fransisco, CA, USA, April 10-15,2016.
- [4] Partha Sarathi Paul, Bishakh Chandra Ghosh, Kingshuk De, Sujoy Saha, Subrata Nandi, Subhanjan Saha, Indrajit Bhattacharya, Sandip Chakraborty, "On Design and Implementation of A Scalable And Reliable Sync System For Delay Tolerant Challenged Networks", COMSNETS 2016, Bangalore.
- [5] Partha Sarathi Paul, Krishnandu Hazra, Sujay Saha, Subrata Nandi, Sandip Chakraborty, Sajal Das “Generating Crisis Maps for Large-scale Disasters: Issues and Challenges” Publisher: Wireless Public Safety Networks 3, Elsevier (Editors:Daniel Camara and Navid Nikaein), ISBN: 978-1-78548-053-9, 2017. (Book Chapter)
- [6] Partha Sarathi Paul, Bishakh Chandra Ghosh, Kingshuk De, Sujoy Saha, Subrata Nandi, Subhanjan Saha, Indrajit Bhattacharya and Sandip Chakraborty, “On Design and Implementation of A Scalable And Reliable Sync System For Delay Tolerant Challenged Networks”, in proc. of the Eighth International Conference on Communication Systems and Networks (COMSNETS 2016), Bangalore, India, January 06-08, 2016.
- [7] Arindam Ghosh, SandipMondal, Sujoy Saha, MousumiSaha, Subrata Nandi, “Air Quality Monitoring using Low-cost Sensing Devices”, MobiSys Poster 2016.
- [8] Praveen Kumar Sharma, BibekPoddar, SoumyoDey, Subrata Nandi, Tanmay De, MousumiSaha, SandipMondal, Sujoy Saha, "On Detecting Acceptable Air Contamination in Classrooms using Low Cost Sensors" COMSNETS WACI Workshop 2017.
- [9] Arindam Ghosh, AnubrataSanyal, Amartya Chakraborty, Praveen Kumar Sharma, SubrataNandi, MousumiSaha, Sujoy Saha, "On Automating Recognition of Multiple Human Activities using Ultrasonic Sensor Grid" COMSNETS WACI WORKSHOP 2017.
- [10] Bibhash Sen, Manojit Dutta, Samik Some, and Biplab K. Sikdar, “Realizing Reversible Computing in QCA Framework Resulting in Efficient Design of Testable ALU” ACM J. Emerg. Technol. Comput. Syst (JETC). Vol 11, No. 3, Article 30 (December 2014), 22 pages. <http://doi.acm.org/10.1145/262953.8> (SCIE)
- [11] Chandra, P. Kukolev, A. Prokes, T. Mikulasek, C. Mecklenbrauker. UWB measurements for spatial variability and ranging: Parked car in underground garage. IEEE Antennas and Wireless Propagation Letters, 16(1):1859-1862, Dec. 2017.
- [12] J. Blumenstein, A. Prokes, A. Chandra, T. Mikulasek, R. Marsalek, T. Zemen, C. Mecklenbrauker. In-vehicle channel measurement, characterization and spatial consistency comparison of 3-11 GHz and 55-65 GHz frequency bands. IEEE Transactions on Vehicular Technology, 66(5): 3526-3537, May 2017.
- [13] Chandra, A. Prokes, T. Mikulasek, J. Blumenstein, P. Kukolev, T. Zemen, C. Mecklenbrauker. Frequency-domain in-vehicle UWB channel modeling. IEEE Transactions on Vehicular Technology, 65(6): 3929-3940, Jun. 2016.
- [14] Chandra, J. Blumenstein, T. Mikulasek, J. Vychodil, R. Marsalek, A. Prokes, T. Zemen, C. Mecklenbrauker. Serial subtractive deconvolution algorithms for time-domain ultra wide band invehicle channel sounding. IET Intelligent Transport Systems, 9(9): 870-880, Nov. 2015.
- [15] P. Kukolev, A. Chandra, T. Mikulasek, A. Prokes, T. Zemen, C. Mecklenbrauker. In-vehicle channel sounding in the 5.8 GHz band. EURASIP Journal on Wireless Communications and Networking, 2015(57): 1-9, Mar. 2015.

- [16] Neeraj Kumar Misra, Subodh Wairya, Bibhash Sen, "Design of Conservative, Reversible Sequential Logic for Cost Efficient Emerging Nano Circuits with Enhanced Testability", *Ain Shams Engineering Journal*, Elsevier (Amsterdam, Netherlands), 11 pages, 2017, DOI: 10.1016/j.asej.2017.02.005. (Scopus)
- [17] Nearly-2-SAT Solutions for Segmented Channel Routing Shyamapada Mukherjee, Suchismita Roy *IEEE Transactions on Computer Aided design of Integrated Circuits (TCAD)* Vol. 35 (1), pages 128-140, January 2016.
- [18] SAT Based Solutions for Detailed Routing of Island Style FPGA Architectures Shyamapada Mukherjee, Suchismita Roy *Elseviers Microelectronics Journal (MEJ)* Vol. 46(8), pages 706-715, August 2015.
- [19] SAT based Timing Analysis for Fixed and Rise/Fall Gate Delay Models. Suchismita Roy, P.P.Chakrabarti, Pallab Dasgupta. *Elsevier Integration : The VLSI Journal*. Vol. 45, Issue 4, pages 357-364, September 2012.
- [20] Bounded Delay Timing Analysis and Power Estimation. Suchismita Roy, P.P.Chakrabarti, Pallab Dasgupta. *Elseviers Microelectronics Journal (MEJ)* Vol. 41, issue 5, pages 317-324, May 2010.
- [21] Satisfiability Models for Maximum Transition Power. Suchismita Roy, P.P.Chakrabarti, Pallab Dasgupta. *IEEE Transactions on Very Large Scale Integrated Systems (TVLSI)* Vol. 16, no. 8, pages 941-951, August 2008.
- [22] Event Propagation for Accurate Circuit Delay Calculation using SAT. Suchismita Roy, P.P.Chakrabarti, Pallab Dasgupta. *ACM Transactions on Design Automation of Electronic Systems (TODAES)* Vol. 12, no. 3, pages 1-23, August 2007.
- [23] Bikash Choudhury, Subhrabrata Choudhury and Animesh Dutta, "Server selection schemes for service-oriented computing in mobile pervasive environment", *Elsevier Journal of Computers & Electrical Engineering*, ISSN 0045-7906, pp. 1-15, January 2016.
- [24] Amrita Namtirtha, Animesh Dutta, Biswnath Dutta, "Weighted kshell degree neighborhood method: an approach independent of completeness of global network structure for identifying the influential spreaders", *COMSNETS 2018, 10th International Conference on COMMunication Systems & NETWORKS* January 3 - 7 , 2018, Bengaluru, India
- [25] Poulami Dalapati, Abhijeet Padhy, Bhawana Mishra, Animesh Dutta, and Swapan Bhattacharya, "Real-time Collision Handling in Railway Transport Network: An Agent-based Modeling and Simulation Approach", *Transportation Letters: the International Journal of Transportation Research*, Taylor & Francis, 2017, pp. 1-11, doi: 10.1080/19427867.2017.1395983.
- [26] Sen, Y. Sahu, R. Mukherjee, R. K Nath and B. K. Sikdar, "On the Reliability of Majority Logic in Quantum-dot Cellular Automata", *Microelectronics Journal*, Elsevier, Volume 47, January 2016, Pages 7-18, ISSN-0026-2692, doi: <http://dx.doi.org/10.1016/j.mejo.2015.11.002>.