



# Computational Advancement in Communication Circuits and Systems: Proceedings of ICCACCS 2014 (Lecture Notes in Electrical Engineering)

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This book comprises the proceedings of 1st International Conference on Computational Advancement in Communication Circuits and Systems (ICCACCS 2014) organized by Narula Institute of Technology under the patronage of JIS group, affiliated to West Bengal University of Technology. The conference was supported by Technical Education Quality Improvement Program (TEQIP), New Delhi, India and had technical collaboration with IEEE Kolkata Section, along with publication partner by Springer.

The book contains 62 refereed papers that aim to highlight new theoretical and experimental findings in the field of Electronics and communication engineering including interdisciplinary fields like Advanced Computing, Pattern Recognition and Analysis, Signal and Image Processing. The proceedings cover the principles, techniques and applications in microwave & devices, communication & networking, signal & image processing, and computations & mathematics & control. The proceedings reflect the conference's emphasis on strong methodological approaches and focus on applications within the domain of Computational Advancement in Communication Circuits and Systems. The content also emphasizes the emerging technologies in the Electronics and Communication field together in close examinations of practices, problems and trends.

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## **Editorial Review**

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### **About the Author**

Dr. Koushik Maharatna received his B.Sc. in Physics and M.Sc. in Electronic Science (Semiconductor science and technology) from Calcutta University, Calcutta, India in 1993 and 1995 respectively. From 1996 till 2000 he was involved as a key member in a number of Indian Govt.-funded projects such as Design and Development of Gate Arrays, development of a low-cost Doppler Ultrasonography system and designing a regenerative transponder based satellite system. All these projects were undertaken at Indian Institute of Technology (IIT), Kharagpur, India. He received his Ph.D. degree from Jadavpur University, Calcutta, India, in 2002 for his thesis, "CORDIC-based signal processors for biomedical applications". Dr. Maharatna has over 90 publications to his credit.

Dr. Goutam Kumar Dalapati is working as Scientist-II in the Department of Design & Growth at Institute of Materials Research & Engineering (IMRE, A\*STAR), Singapore. He has completed Ph.D. from Jadavpur University, Kolkata, India in 2005. His research interests include Next generation solar cells; Earth abundant materials for Photovoltaic application (FeSi<sub>2</sub>, CuO, and CuS); Inorganic solar cells (Si- and III-V-based); Heterogeneous integration (III-V on Si platform) for electronic and optical applications; Advanced CMOS front-end technology; Semiconductor process and technology; ALD High-K dielectrics for photovoltaic and electronic applications; High mobility channel materials (GaAs, SiGe, strained-Si); and GaN power transistor. Dr. Dalapati has published several papers in international journals. Dr. Dalapati has filed a patent for "Photoelectric Transducer Using Iron Silicide and Aluminium", US Provisional Patent Application No. 61/316,696.

Prof. P K Banerjee, retired Professor of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, completed his undergraduate, post graduate and Ph.D programme in the same University in the years 1965, 1967 and 1972 respectively. After completion of his master degree he joined as senior research fellow to undertake research activities leading to Ph.D degree. He joined the department as

lecturer in the year 1971 and subsequently promoted to Reader and Professor. His academic interest is in the field of Communication Engineering with special activities in Digital Communication Systems, RF engineering and allied fields. Currently he is working in the field of mobile Ad-hoc network (MANET), MIMO system and its use in different environment. Prof. Banerjee has guided large number of students for their Master project and also four students for their Ph.D (ongoing) work. He is also actively involved in guiding both M. Tech and Ph.D students. Prof. Banerjee along with his fellow associates and co-workers published more than 100 technical papers in national and international journals and has one patent of his credit.

Professor Amiya Kumar Mallick joined All India Radio, Calcutta as Assistant Engineer through UPSC examination after graduation in Electrical Engineering from Jadavpur University and thereafter Post-graduation in Microwave Engineering from Indian Institute of Technology, Kharagpur. On completion of exhaustive training under the Technical Teacher Training Scheme, Government of India, Professor Mallick joined the Department of Electronics and Electrical Communication Engineering, Indian Institute of Technology, Kharagpur as Lecturer in 1967. Finally, Prof Mallick became Professor of the Department and carried out all the responsibilities, with dignity, as the Head of the Centre for Research & Training in Radar and Communication Engineering. He was also, a member of the Senate - the highest academic body the Institute. Apart from teaching Professor Mallick provided leadership and took active initiatives in research and development of the Institute. He was Chairman of various Committees connected with a variety of R & D activities – departmental as well as interdisciplinary in nature. Professor Mallick retires in 2000 from IIT, Kharagpur. Prof. Mallick obtained his Ph.D (Engineering) degree from the Indian Institute of Technology, Kharagpur and produced a number of Ph.Ds under his supervision. He is a Fellow and life member of number of Professional Societies like IE (India), IETE, SEMCE and Associate member of IEEE. Professor Mallick published a number of high quality technical research papers in National and International journals.

Dr. Moumita Mukherjee is working as Senior Scientist at Centre for Millimeter Semiconductor Devices & Systems, Defence Research & Development Organisation, Kolkata, India. Beside her R & D job, she likes teaching and out of that interest, she is attached with Applied Physics Department, Calcutta University as 'guest faculty'. She completed her Bachelors and Masters (Physics) from Presidency College, Kolkata, University of Calcutta. Dr. Mukherjee completed Ph.D. (Technology) in Radio Physics and Electronics from Calcutta University. She has authored more than 120 research papers in international journals and also authored in a number of international research papers/book-chapters/books. Dr. Mukherjee received Visiting-Scientist' offer from Newcastle University, UK and selected as PDF from Germany, and also obtained 'National Merit Scholarship' Award from GOI.

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