Editorial

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Biographical notes: Sanjay Kumar Jena received his PhD and MTech from Indian Institute of Technology Bombay and Indian Institute of Kharagpur, India. He is a Professor at the Department of Computer Science and Engineering, National Institute of Technology Rourkela, India. His research interests include issues related to data engineering, information security and privacy, parallel and distributed computing and artificial intelligence. He has authored over 80 research articles for books, journals, and conference proceedings. He is also the Editor of the *Proceedings of ICCCS 2011* published by ACM.

Hiroshi Sakai received his BS, MS and DS in Mathematics and Computer Sciences from Kyushu University, Japan. He is now working as a Professor in the Department of Basic Sciences at Kyushu Institute of Technology, Tobata Campus in Kitakyushu, Japan. He is serving as an advisory board member of International Rough Set Society and an editorial board member of some journals. His primary research interests include rough sets, mathematical logic, soft computing, logic programming and data mining. He is a PC member of several international scientific conference series. He has published over 100 research articles for books, journals, and conference proceedings.

This special issue of *International Journal of Computational Intelligence Studies* has evolved as an outcome of the Second International Conference on Communication, Computing and Security (ICCCS 2012) which was organised at National Institute of Technology Rourkela during October 6 to 8, 2012. Dr. Sanjay Kumar Jena, Professor, Department of Computer Science and Engineering, NIT Rourkela and Dr. Ashis Kumar Pani, Professor, XLRI Jamshedpur were the general chairs. Dr. Bansidhar Majhi, Professor, NIT Rourkela and Dr. V. Krishna Nandivada, IIT Madras were the program chairs. Dr. Ashok Kumar Turuk, Associate Professor, NIT Rourkela and Dr. Dimitrios A. Karras, Professor, CIT Greece were the track chairs for communication. Dr. Durga Prasad Mahapatra, Associate Professor, NIT Rourkela and Dr. Hiroshi Sakai,

Professor, KIT Japan were the track chairs for computing. Dr. Debasish Jena, Associate Professor, IIIT Bhubaneswar and Dr. M.S. Gaur, Professor, MNIT Jaipur were the track chairs for Security. Professor Sunil Kumar Sarangi, Director, NIT Rourkela was the Patron. Faculty members of the Department of Computer Science and Engineering were the Local Organising Committee. Prof. B. Yegnarayana, Professor and Microsoft chair, International Institute of Technology, Hyderabad has given the plenary talk. Prof. Sukumar Nandi, Professor and Dy. Director, IIT Guwahati, Prof. Lukas Kencl, Professor and RDC Director, CTU Prague, Czech Republic, Prof. Yung-Ming Li, Professor and Director, National Chiao Tung University, Taiwan delivered the keynotes. Five hundred and fourteen papers were received for the conference out of which 148 were accepted for presentation. 180 delegates attended the conference from India and abroad. The proceedings were published by Elsevier Procedia Technology. The plenary and invited talks were very informative and interactive. ICCCS 2012 provided a platform for the upcoming researchers in the field of communication, computing and security. Many novel ideas in computing techniques were presented. Extended versions of seven papers, presented at the conference, are selected for this special issue after a rigorous peer review as per Inderscience Policy. This special issue is entitled as 'Advances in computing and data engineering'. The first paper is entitled 'Clustering using modified harmony search algorithm' by Vijay Kumar, Jitender Kumar Chhabra, and Dinesh Kumar. The second paper is entitled 'A survey and perspective connected with rough non-deterministic information analysis' by Hiroshi Sakai, Mao Wu, and Naoto Yamaguchi. The third paper is called 'Shot boundary-based keyframe extraction for video summarisation' by G.G. Lakshmi Priya and S. Domnic. The fourth paper is titled 'Ranking images in web documents based on HTML TAGs for image retrieval from WWW' by P. Shanmuga Vadivu, P. Sumathy and A. Vadivel. The fifth paper is entitled 'Privacy preserving data publishing: a coalitional game theory perspective' by Srinivasa L. Chakravarthy and V. Valli Kumari. The sixth paper is entitled 'Slicing-based test case generation using UML 2.0 sequence diagram' by Ranjita Kumari Swain, Vikas Panthi, Prafulla Kumar Behera and Durga Prasad Mohapatra and finally, the seventh paper is entitled 'Variance and density-based anomaly identification and ranking for evolving data streams' by Yogita and Durga Toshniwal. The editors thank all these authors for their contribution to the special issue, and also express heartfelt thanks to Prof. George A. Tsihrintzis, Editor-in-Chief, *International Journal of Computational Intelligence Studies* and all the reviewers who took out time from their busy schedule to peer review these papers. Indeed, it has been a pleasure and honour to edit this special issue.