Achievements 2018

Ph. D. Awarded

1. Utpal Nandi, Assistant Professor, Computer Science, Vidyasagar University, Midnapur, India, "A Study Towards Design and Implementation of Data / Image Compression Techniques", 31st January 2018, Department of Computer Science & Engineering, University of Kalyani, 2018.
2. Amrita Khamrui, Assistant Professor, Computer Science & Engineering, Future Institute of Engineering & Management, Kolkata, India, "Genetic Algorithm based Steganography for Image Authentication", 28th March 2018, Department of Computer Science & Engineering, University of Kalyani, 2018.
3. Parthajit Roy, Assistant Professor, Department of Computer Science, University of Burdwan, India, "Towards Design and Implementation of Graph based Clustering Techniques", Submitted July 2017, Department of Computer Science & Engineering, University of Kalyani, 2018.

Books

1. Title:Hand Book on Hardware Cryptography - Algorithms and Analysis Paperback ,Publisher:LAP - Lambert Academic Publishing–ISBN: 978-6139841653; June 19, 2018 (Authors-Rajdeep Chakraborty and Jyotsna Kumar Mandal)-212pages.(Link:https://www.amazon.com/Hand-Book-Hardware-Cryptography-Algorithms/dp/6139841658
2. Title:Advances in Intelligent Computing, in the series " Studies in Computational Intelligence-687", Springer Nature Singapore, ISBN 978-981-10-8973-2., 2018; The link is: https://www.springer.com/in/book/9789811089732

Edited Volumes:

1. J. K. Mandal, Paramartha Dutta, Somnath Mukhopadhyay, Advances in Intelligent Computing in the series " Studies in Computational Intelligence", Springer, ISSN: 978-981-10-8974-9,2018
2. *Forthcoming Title:* Multi-Objective Optimization: Evolutionary to Hybrid Framework,*Publisher:Springer Nature, an international publisher of progressive Scientific research,In process (to be publish in middle of 2018(Authors-J K Mandal, Somnath Mukhopadhyay and Paramartha Dutta)*
3. *Forthcoming title:*Nanoelectronics, Circuits and Communication Systems ,Lecture Note in Electrical Engineering, Springer Nature, No.:86964762(in Press), 2018

SCI Journals

1. Mandal J., K., Chakraborty Raktim "Design of 4nm MOSFET and its Applications", Microsystem Technology, Springer, July 2018 (SCI) (online first) (IF:**1.581**).
2. Ghosal, S and Mandal, J., K., "High Payload Image Steganography based on Laplacian of Gaussian (LoG) Edge Detector", Multimedia Tools and Applications (**IF:1.530**), Springer (Science Citation Index Expanded (SciSearch), May, 2018.
3. Ghosal, S and Mandal, J., K., On the use of the Stirling Transform in Image Steganography, Journal of Information Security and Applications (**IF:1.357**), Elsevier (in Press), 2018
4. Das, S, Mandal, J. K., An Information Hiding Scheme in Wavelet Domain using Chaos Dynamics, Journal of Scientific and Industrial Research (**IF:0.557**), ISSN: 0022-4456(SCI)(accepted)(2018)
5. Chatterjee R, Mandal J. K., A Content Proposer System (CPS) based on deficiencies of Confidence Based Learning (CBL), Journal of Scientific and Industrial Research (**IF:0.557**), ISSN: 0022-4456. (SCI)(accepted) (2018)
6. Das, S, Mandal, J. K., Secured Hand Sacking Based Two Phase Data Concealing Architecture in Spectral Domain, Microsystem Technology (**IF:1.581**), Springer (Online first) March 2018(SCI)
7. Shaswata Saha ; Sudipta Ghosal ; Anuran Chakraborty ; Souvik Dhargupta ; Ram Sarkar ;Jyotsna Mandal, "Improved exploiting modification direction based steganography using dynamic weightage array", Electronics Letters, IET Digital Library(**IF:1.155**), DOI: 10.1049/el.2017.3336 , Print ISSN 0013-5194, Online ISSN 1350-911X Available online: 02 March 2018(SCI).

Edited Volumes as Volume Editor/Corresponding Editor /Conference Organizations

1. Emerging Technology in Modelling and Graphics -Proceedings of IEM Graph 2018, Organized by the Department of Computer Science & Engineering, Institute of Engineering & Management, Kolkata, India, September, 6 - 7 2018, Corresponding Editor of the Proceedings to be published in Advances in Intelligent Systems and Computing(AISC), Springer Verlag, Switzerland, 2018
2. Proceeding of the Second International Conference on Microelectronics, Computing & Communication Systems (MCCS 2017) in the Springer Series Lecture Notes in Electrical Engineering 476,publisher: Springer Nature[;The link is: HTTPs, 2018.
3. International Ethical Hacking Conference, eHaCON 2018, Organized by the Department of Information Technology, Institute of Engineering & Management, Kolkata, India, April, 6 - 7 2018, member of Editorial Board, of the Proceedings to be published in Advances in Intelligent Systems and Computing(AISC), Springer Verlag, Switzerland, 2018.

4. International Conference on Contemporary Advances in Innovative & Applicable Information Technology (ICCAIAIT 2018) Kingston Educational Institute, Barasat, 24-25th March 2018, Corresponding Editor, Proceedings to be published - Springer AISC Series, Springer Verlag, Switzerland (in Press), 2018

5. International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS 2018, UEM, Rajarhar, Kolkata, 23-25 February, 2018, Editor, Proceedings to be published - Springer AISC Series, Springer Verlag, Switzerland (in Press), 2018

6. International Conference on Social Transformation – Digital Way, 52nd Annual Convention of Computer Society of India, 19-21st January, 2018 at science City Kolkata , member of Editorial Board, Program Chair, Corresponding Editor of the Proceedings to be published - Springer CCIS Series, Springer Verlag, Switzerland (in Press), 2018

7. 11th International Conference on Advanced Computing & Communication Technologies' [11th ICACCT 2017], Asia Pacific Institute of Information Technology, Panipat on 179th -18th February , 2018, member of editorial Board of the Proceedings published -Advances in Intelligent Systems and Computing(AISC), Springer Verlag, Switzerland, 2018.

Invited Talks/Expert Lecture and Conference attended

No. of Expert/Invited Lecture delivered: 07
Conference attended: 04

Expert Lecture:

1. Invited talk in the international conference MCCS 2018(IETE Zonal Conference 2018), 12th May 2018, at BSNL Auditorium, Ranchi on "Reliability Computation in Wireless Network".

2. Invited talk for the workshop on Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (IPCVPR-2018) on 29th March 2018 at Belur Ramkrishna Mission Vidyapitham on "Image processing and authentication I Nonlinear domain".

3. International Conference of advanced Computing and Big Data Analytics(ICACB'18), requested me to deliver key note address on the eve of ICAB'18 at Kingston Engineering College Vellore on 23rd March 2018,.

4. Invited talk on Chaos Assisted Security and Authentication in Public Domain Networks at Barackpur Rastraguru Surendranath College, one day seminar on Recent Trends in Computer Science, 6th March 2018.

5. Key Note Address at ICACCT 201, at APIIT, Panipath, Hariyana, on 17th February, 2018, on Chaos based authentication(to be published in AISC Series of Springer).

6. Key Note Address on Recent Trends of Security in Communication, State Student's Convention, Region II, Computer Society of India, 10th February, 2018.

7. IEEE, Young Professional organized lecture at Jadavpur University, on 8th February 2018 at the Department of Computer Science & Engineering, on "Chaos based security and Authentication"

8. Invited talk in a workshop at MAKAUT, Salt Lake, Kolkata, on 16th January 2018, on "Security and authentication in Transform Domain"