

List of Publications

Dr. Kousik Dasgupta

Books and Periodicals

- * **Editor** of “*ALGORITHMS IN MACHINE LEARNING PARADIGMS*”, Publisher: Springer Singapore; Co-editors: Prof. (Dr.) J.K. Mandal, Univ. of Kalyani, Kalyani, Dr. S. Mukhopadhyay, Assam Univeristy, Silchar, Assam, Prof. (Dr.) Paramartha Dutta, Visva-Bharati University, Santiniketan, ISBN: 978-981-15-1040-3, 978-981-15-1041-0, 2020, DOI <https://doi.org/10.1007/978-981-15-1041-0>.
- * **Editor** of “*COMPUTATIONAL INTELLIGENCE, COMMUNICATIONS, AND BUSINESS ANALYTICS*”, Second International Conference, CICBA 2018; (Vol. CCIS 1030 and 1031), Publisher: Springer Singapore; Co-editors: Prof. (Dr.) J.K. Mandal, Univ. of Kalyani, Kalyani, Dr. S. Mukhopadhyay, Assam Univeristy, Silchar, Assam, Prof. (Dr.) Paramartha Dutta, Visva-Bharati University, Santiniketan, ISBN: 978-981-13-8577-3, 978-981-13-8580-3, 2019.
- * **Editor** of “*METHODOLOGIES AND APPLICATION ISSUES OF CONTEMPORARY COMPUTING FRAMEWORK*”, Publisher: Springer; Co-editors: Prof. (Dr.) J.K. Mandal, Univ. of Kalyani, Kalyani, Dr. S. Mukhopadhyay, Assam Univeristy, Silchar, Assam, Prof. (Dr.) Paramartha Dutta, Visva-Bharati University, Santiniketan, ISBN: 978-3-319-47223-2, 2018.
- * **Kousik Dasgupta**, S. Bhattacharyya and P. Dutta, **Authored Book** entitled “*Intelligent Volumetric 3D Image Processing*”, John Wiley & Sons, Ltd. (in press).
- * **Editor** of “*GREEN COMPUTING AND PREDICTIVE ANALYSIS FOR HEALTHCARE*”, Publisher: CRC Press Taylor & Francis Group; Co-editors: Dr. Sourav Banerjee, Kalyani Government Engineering College, Kalyani, Dr. Chinmay Chakraborty, Birla Institute of Technology, Sindri. (in press).
- * P. Dutta, **K. Dasgupta**, M. Biswas, S. Bhattacharyya, Authored Book entitled “*Internet Technology*”, Matrix Educare.
- * P. Dutta, **K. Dasgupta** and K.P. Banerjee, Authored Book entitled “*System Software and Administration*”, Matrix Educare.
- * P. Dutta, **K. Dasgupta** and S. Bhattacharyya, Authored Book entitled “*Internetworking*”, Matrix Educare.

Journal

- Ratan Kumar Basak, Ritam Chatterjee, Paramartha Dutta and **Kousik Dasgupta** , “*Steganography in Color Animated Image Sequence for Secret Data Sharing using Secure Hash Algorithm*”, Accepted for Publicaiton on August,2021 In: *Wireless Pers Commun* (2021). Springer Singapore, 2021, (SCI, SCOPUS, ACM Digital Library)
- Gopa Mandal, Santanu Dam, **Kousik Dasgupta** and Paramartha Dutta. , “*A Linear Regression Based Resource Utilization Prediction Policy for Live Migration in Cloud Computing*”, In: Mandal J., Mukhopadhyay S., Dutta P., Dasgupta K. (eds) *Algorithms in Machine Learning Paradigms. Studies in Computational Intelligence*, vol 870. Springer, Singapore, 2020, Scopus Indexed.
- **Kousik Dasgupta** and Kamalesh Kundu, “*Hostility Index induced Image Steganography*”, in *CBS Journal of Management Practices* Vol.3, pp: 29-34, 2016.
- Debiprasad Bandyopadhyay, **Kousik Dasgupta**, J. K. Mandal and Paramartha Dutta, “*A novel secure image steganography method based on Chaos theory in spatial domain*”, in *International Journal of Security, Privacy and Trust Management (IJSPTM)* Vol 3, No 1, pp: 11-21, 2014.
- **Kousik Dasgupta**, J. K. Mandal and Paramartha Dutta “*Hash Based Least Significant Bit technique for Video Steganography (HLSB)*”, in *International Journal of Security, Privacy and Trust Management (IJSPTM)*, ISSN 2277-5498, Academy & Industry Research Collaboration Center (AIRCC), pp 1-11, (DOI: 10.5151/ijstpm.2012.2201), 2012.
- Jayanta Kumar Pal, J. K. Mandal, and **Kousik Dasgupta**, “*A (2, N) Visual Cryptographic Technique For Banking Applications*”, in *International Journal of Network Security & Its Applications (IJNSA)*, Vol. 2, No.4, pp 118-127, 2010.

Book chapter

- Nag, S., Ganguly, P. K., Roy, S., Jha, S., Bose, K., Jha, A. and **Dasgupta, K.** (2018). “*Offline Extraction of Indic Regional Language from Natural Scene Image Using Text Segmentation and Deep Convolutional Sequence*”, In Methodologies and Application Issues of Contemporary Computing Framework (pp. 49-68). Springer, Singapore.
- Roy, S., Pal, N., **Dasgupta, K.** and Gupta, B. (2018). “*Understanding Email Interactivity and Predicting User Response to Email*”, In Methodologies and Application Issues of Contemporary Computing Framework (pp. 69-79). Springer, Singapore.
- Santanu Dam, Gopa Mandal, **Kousik Dasgupta** and Parmartha Dutts, “*An Ant-Colony-Based Meta-Heuristic Approach for Load Balancing in Cloud Computing*”, in the book of Applied Computational Intelligence and Soft Computing in Engineering, IGI Global, Chapter 9, pp: 204-232, ISBN13: 9781522531296, DOI- 10.4018/978-1-5225-3129-6.ch009, 2017.
- **Kousik Dasgupta** , “*Particle Swarm Optimization (PSO) for Optimization in Video Steganography*”, in Book: Mandal, J. K., Mukhopadhyay, S. and Pal, T, Handbook of Research on Natural Computing for Optimization Problems, IGI Global. Chapter 15, pp:339-362, ISBN13-9781522500582, DOI-10.4018/978-1-5225-0058-2, 2016.

Conference

- * Dutta S. and **Dasgupta K.** “*A Shallow approach to gradient boosting (XGBoosts) for prediction of the Box Office revenue of a Movie*” accepted for publication in the Springer AISC Proceedings of International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021).
- * Hazra J, Chowdhury A. R., **Dasgupta K.**, and Dutta P, “*Robust Optimized Structural Feature Based Transformation Parameter Estimation For Image Registration*” (2021) accepted for publication in 2nd International Conference on Advanced Computing and Applications (ICACA-2021).
- * Chowdhury A. R., Hazra J., **Dasgupta K.**, and Dutta P, “*A Novel Equilibrium Optimization Technique for band selection of hyperspectral images*”, accepted for publication in the Springer CCIS Proceedings of Third International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA-2021).
- * Chowdhury A. R., Hazra J., **Dasgupta K.**, and Dutta P, “*Comparative study of the effect of different fitness function in PSO algorithm on band selection of hyperspectral images*” accepted for publication in the Springer AISC Proceedings of Research and Applications in Artificial Intelligence (RAAI-2020).
- * Banerjee, P., **Dasgupta, K.**, Chatterjee, S., and Banerjee, R. (2019, April). “*Abnormality Detection Using Image Quality Estimation Technique Through Border Surveillance For Wireless Transmission*”, In 2019 International Conference on Ubiquitous and Emerging Concepts on Sensors and Transducers (UEMCOS) (Vol. 1, pp. 1-6). IEEE.
- * Mandal, L., and **Dasgupta, K.** (2019, February). “*Use of Vedic Mathematics to Speed-up Basic Mathematical Operations in Android Based Calculator*”, In 2019 International Conference on Intelligent Sustainable Systems (ICISS) (pp. 162-165). IEEE
- * Mandal, L., and **Dasgupta, K.** (2018, December). “*A Multi-Utility Calculator App for Low Power Hand-Held Device*”, In 2018 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) (pp. 1-4). IEEE.
- * Basak, R. K., **Dasgupta, K.**, and Dutta, P. (2018, November). “*Steganography in Grey Scale Animated GIF using Hash based Pixel Value Differencing*”, In 2018 Fourth International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) (pp. 248-252). IEEE.
- * Dutta, S., Halder, A. and **Dasgupta, K.** (2018, November). “*Design of a novel Prediction Engine for predicting suitable salary for a job*”, In 2018 Fourth International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) (pp. 275-279). IEEE.
- * Mandal, G., Dam, S., **Dasgupta, K.** and Dutta, P. (2018, July). “*Load Balancing Strategy in Cloud Computing Using Simulated Annealing*”, In International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA-2018) (pp. 67-81). Springer, Singapore.
- * Maji, B., Bhattacharya, I., Nag, K., Mishra, U. P. and **Dasgupta, K.** (2018, July). “*Study of Information Diffusion and Content Popularity in Memes*”, In International Conference on Computational Intelligence, Communications, and Business Analytics (CICBA-2018) (pp. 462-478). Springer, Singapore.
- * Sounak Mahanta, **Kousik Dasgupta**, “*A Framework for Ischemic Beat Detection using Multi - Layer Feed-forward Neural Network and Principal Component Analysis (IBD-MLFFNN-PCA)*”, in Proceedings of the 2nd International Conference on Perception and Machine Intelligence, (pp. 77-84), 2015, doi:10.1145/2708463.2709050

- * Santanu Dam, Gopa Mandal, **Kousik Dasgupta**, Paramartha Dutta, “*Genetic Algorithm and Gravitational Emulation Based Hybrid Load Balancing Strategy In Cloud Computing*”, in Proc. of third International Conference on Computer, Communication, Control and Information Technology (C3IT), 2015, IEEE, (pp. 1-7), doi 0.1109/C3IT.2015.7060176, 2015.
- * Santanu Dam, Gopa Mandal, **Kousik Dasgupta**, Paramartha Dutta, “*An Ant Colony Based Load Balancing Strategy in Cloud Computing*”, in Advanced Computing, Networking and Informatics- Volume 2, Smart Innovation, Systems and Technologies Volume 28, 2014, Springer International Publishing, (pp. 403-413), doi10.1007/978 – 3 – 319 – 07350 – 7₄₅, 2014.
- * Debiprasad Bandyopadhyay, **Kousik Dasgupta**, J. K. Mandal, Paramartha Dutta, Varun Kumar Ojha, Václav Snásel, “*A Framework of Secured and Bio-Inspired Image Steganography Using Chaotic Encryption with Genetic Algorithm Optimization (CEGAO)*”, In Proceedings of the Fifth International Conference on Innovations in Bio-Inspired Computing and Applications IBICA 2014, (pp. 2194-5357), 2014
- * **Kousik Dasgupta**, Jyotsna Kumar Mandal, Paramartha Dutta, “*Optimized Video Steganography using Genetic Algorithm (GA)*”, in Proc. of First International Conference on Computational Intelligence: Modeling Techniques and Applications (CIMTA) 2013, Volume 10, 2013, (pp. 131-137). (Presented the Paper)
- * **Kousik Dasgupta**, Brototi Mandal, Paramartha Dutta, Jyotsna Kumar Mandal, Santanu Dam, “*A Genetic Algorithm (GA) based Load Balancing Strategy for Cloud Computing*”, in Proc. of First International Conference on Computational Intelligence: Modelling Techniques and Applications (CIMTA) 2013, Volume 10, (pp. 340-347), 2013.
- * Brototi Mondal, **Kousik Dasgupta**, Paramartha Dutta “*Load Balancing in Cloud Computing using Stochastic Hill Climbing-A Soft Computing Approach*, in Proceedings of Elsevier Second International Conference on Computer, Communication, Control and Information Technology (C3IT2012), (pp 783-789), 2212-0173, 2012.
- * **Kousik Dasgupta**, Siddhartha Bhattacharyya, Paramartha Dutta and Jyotsna Kumar Mandal, “*A Three Dimensional Bi-directional Self-Organizing Neural Network (3-DBDSONN) Architecture for Three Dimensional Object Extraction From A Noisy Perspective*”, in Proceedings of IEEE Second International Conference on Emerging Applications of Information Technology (EAIT 2011), pp 309-312, February 2011 (978-0-7695-4329-1/11, 2011). (Presented the Paper).
- * Jayanta Kumar Pal, J.K.Mandal, and **Kousik Dasgupta**, “*A Novel Visual Cryptographic Technique through Grey Level Inversion (VCTGLI)*”, in Communications in Computer and Information Science, in Recent Trends in Networks and Communications International Conference, NeCoM 2010, WiMon 2010, WeST 2010 Chennai, India, pp 125-133, July 2010. Springer-Verlag Berlin Heidelberg 2010.
- * **K. Dasgupta**, S.Bhattacharyya and P.Dutta, “*Three-Dimensional Object Extraction Using A Three-Dimensional Self-Organizing Neural Network (3DSONN) and its Two-Dimensional Counterpart: A Comparative Study*”, HETC Journal of Computer Engineering and Applications (2010).
- * **K. Dasgupta**, S. Bhattacharyya and P. Dutta, “*A Three-Dimensional Self-Organizing Neural Network Architecture For Three-Dimensional Object Extraction From A Noisy Perspective*, in Proceedings of IEEE International Conference on Advanced Computing (ICAC-2009), Chennai, India, pp. 141-147, December 2009.
- * **K. Dasgupta**, S. Bhattacharyya and P. Dutta, “*A Neuro-Fuzzy Approach for 3D Object Detection and Extraction*, in Proceedings of SPIT-IEEE Colloquium and International Conference, Mumbai, India, Vol 1, pp.-217-222, February 2008. (Presented the Paper)
- * **K. Dasgupta** and D.S. Mukherjee, “*A report on Computer Hardware and Networking Course: A course towards self sufficiency and Upliftment of Youths and Old dedicated as service to Community and Economy*”, in A Compendium of Action research Publication and Reports on Service to Community and economy under TEQIP, pp 174-180, 2007.
- * S. Bhattacharyya, P. Dutta, **K. Dasgupta** and A. Basu, “*Multiple target tracking using pixel hostility based segmentation of optical flow field*” in the Book of Abstracts of SOOP 05, pp. 56-58, 2005.
- * **K. Dasgupta**, S. Bhattacharyya and P. Dutta, “*Pure Color Object Extraction: A Distributed Approach*”, in Proceedings of ObComAPC 2004, Vellore, India, pp. 556-565, December 2004.
- * A. Basu, **K. Dasgupta** and K.P. Banerjee, “*Security in Grid Computing Environment: Provided by Traditional Security Technologies*”, in Proceedings of ObComAPC 2004, Vellore, India, pp. 514-521 December 2004.
- * S.K. Mondal, B. Bhowmik, **K. Dasgupta**, S. Bhattacharyya, K. Ghosh and P. De, “*TEQIP and its role in Developing the Quality of Technical Education*”, in Proc. Of National Conference on Integration of Strategies for Effective Quality Management in technical Education, pp. 173-180, December 2004.

- * **K. Dasgupta** and K.P. Banerjee, “*Beyond the Firewall: An approach towards next level of Network Security*”, in Proc. Of All India Seminar on e-security, GTBKIET, Chhapiawali, Malout, Punjab, pp. 104-109, May 2004.
- * P.Dutta, S. Bhattacharyya and **K. Dasgupta**, “*Multi-Scale Object Extraction Using A Self Organizing Neural Network with A Multi-Level Beta Activation Function*”, in Proc. Of International Conference on Intelligent Sensing and Information Processing, pp. 139-142, January 2004.
- * S. Bhattacharyya and **K. Dasgupta**, “*Color Object Extraction From A Noisy Background Using Parallel Multi-layer Self-Organizing Neural Networks*” in Proc. of CSI-YITPA(E) 2003, Kolkata, India, pp 32-36, November 2003. (Presented the Paper)