

Name: Dr. Romit S Beed

Designation: Associate Professor

Department: Computer Science

Date of Join: 16th August, 2005

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Qualification:

- M.Sc. (CS) 2003 University of Calcutta
- M.Tech. (CSE) 2005 University of Calcutta
- Ph.D. (Comp. Sc) 2021 Assam University, Silchar

Doctoral Research Topic: “Multi-Objective Optimization Using Computational Intelligence Techniques and its Applications”

Teaching Experience:

- U.G. 16 years of teaching experience.
- P.G. 16 years of teaching experience.
- Research Guidance 16 years at Master’s Level.

Administrative Responsibilities:

- Head of the Department, Department of Computer Science (Since July 2019)
- Deputy President, St. Xavier’s College Students’ Council (Since July 2009)
- Coordinator, Post Graduate Department of Computer Science Previously Prof-in-Charge, Post Graduate Department of Comp. Sc. (April 2006-June 2019)

Member:

- Academic Council
- Board of Studies, Computer Science
- Students’ Advisory Council
- Consultancy Cell
- Placement Cell
- College Magazine Committee
- Programme and Publication Committee
- Games and Sports Committee
- Information Resource Committee
- Disaster Management Committee
- ICT Resource Management Committee
- ISO 9001-2015 Core Committee
- Special Invitee of the Tourism Standing Committee, Bengal National Chamber of Commerce & Industry for the year 2020-2021
- SXCCAA- St. Xavier’s College Calcutta Alumni Association
- ALUMNORUM SOCIETAS – St. Xavier’s School Old Boys’ Association

Research Interests:

- Multi Objective Optimization
- Computational Intelligence Techniques
- Database Management Systems
- Software Engineering

Articles published in Journals/Conference Proceedings

1. Romit Beed, Debapriya Ghosh, Farhana Javed Zareen, Nikita Goyal, “Signature Authentication”, Aviskaar: A Xaverian Journal of Research, ISSN (Print): 2277-8411 ISSN(Online): 2278-1048, vol 1, 2009.
2. Romit S Beed, Rana Biswas, Sneha Mitra, Sohini Saha & Sagnik Sinha, “Alternative Keyboard Based on Infrared Technology”, Undergraduate Academic Research Journal (UARJ), ISSN: 2278 – 1129, vol. 1, iss. 1, 2012.
3. Romit S Beed, Atrayee Chatterjee, Debasis Pallya and Debodita Roy Chowdhury, “Colour Spiral Encoding Technique”, in Proceedings of National Conference on Research and Higher Education in Computer Science and Information Technology, RHECSIT – 2012 (Sponsored by U.G.C.), Kolkata, India 2012.
4. Romit S Beed, Sayan Chakraborty, Swati Ganguli, “Content Based Image Retrieval System”, Aviskaar: A Xaverian Journal of Research, Vol III, 2011.
5. Jayati Ghosh Dastidar, Sonali Sen, Romit S Beed, Ananya Chatterjee, “A Study on the Feasibility of E-Learning in the Field of Higher Education”, in Proceedings of UGC sponsored seminar on ICT in Higher Education - Opportunities and Challenges in the 21st Century, Kolkata, India, 2012. [ISBN: 978-81-924140- 0-3]
6. Enakshi Mukhopadhyay, Priyanka Mazumder, Saberi Goswami, Romit S Beed, “An Efficient Automated English to Bengali Script Conversion Mechanism”, International Journal of Advanced Computer Research, Volume-4, Number-2 Issue-15, 2014. [(ISSN (print): 2249-7277 ISSN (online): 2277-7970)]
7. Romit S Beed, Nandini Barman, Spandan Ray Chaudhuri, Rana Biswas, "GSM based Multi-purpose Alert System", in Proceedings of IEMCON2014 Conference on Electronics Engineering and Computer Science, Elsevier, Kolkata, India, August 2014. [ISBN 978-93-5107-248-5.]
8. Rana Biswas, Spandan Ray Chaudhuri, Nandini Barman, Romit S Beed, “Solar-Powered GSM Based Multipurpose Alert System”, American Journal of Advanced Computing, vol. 1, no. 2, pp: 36-44, 2014. [ISSN: 2368-1209]
9. Biswarup Nandi, Souvik Sur, Upasana Roy Chowdhury, Romit Beed, “Drishti – Automated Machine Interface”, International Journal of Computer Architecture and Mobility, Volume 3 -Issue 4, June 2015. (ISSN 2319-9229)
10. Rana Biswas, Romit S. Beed, Dibyabiva Seth, Proyag Pal, Kaustav Basu, Triparna Mukherjee, Traffic Rule Violation Information System TRuVIS, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue 7, July 2015 ISSN: 2277 128X
11. Rana Biswas, Romit Beed, Ankita Bhaumik, Shamik Chakrabarty & Raghav Toshniwal, “Solar-Powered Automated Plant/Crop Watering System”, International Journal of Advanced Engineering and Global Technology, Vol-03, Issue-01, 2015. [ISSN No: 2309-4893]
12. S. Chatterjee, P.G. Jose, P. Basak, A. Athar, B. Aravind, R.S. Beed & R. Biswas, “Microcontroller based automated life savior—Medisur,” in Proceedings of the International Conference on Computational Science and Engineering, CRC Press, Kolkata, India, 2016. [ISBN 9781138029835 - CAT# K30152]
13. R. S. Beed, S. Sarkar, A. Roy, “Cash to Cashless Economy: A study on the role of Information Technology” in Proceedings of ICSSR Sponsored National Seminar on Transition to Cashless Economy, Priorities, opportunities & the Modes and Options organized by Jawaharlal Nehru School of Management Studies, Assam University, Silchar, Sept, 2017.
14. R. S. Beed and S. Sarkar, "A study on the use of information and communication technology in tourism," IEEE, 2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI), Udupi, 2017, pp. 1737-1744. doi: 10.1109/ICACCI.2017.8126095

15. R. S. Beed, S. Sarkar, A. Roy and S. Chatterjee, "A Study of the Genetic Algorithm Parameters for Solving Multi-objective Travelling Salesman Problem," in IEEE, 2017 International Conference on Information Technology (ICIT), Bhubaneswar, 2017, pp. 23-29. doi: 10.1109/ICIT.2017.49
16. Romit S Beed, Ankita Kedia, A Dynamic School Bus Routing System, Aviskaar: A Xaverian Journal of Research Vol X: 2018.
17. Beed R, Roy A, Sarkar S, Bhattacharya D. A hybrid multi-objective tour route optimization algorithm based on particle swarm optimization and artificial bee colony optimization, Computational Intelligence, 2020; 1–26. <https://doi.org/10.1111/coin.12276>
18. Beed, R.S., Sarkar, S. & Roy, A. Bayesian hierarchical multi-objective optimization for vehicle parking route discovery. Innovations in Systems and Software Engineering (2020). <https://doi.org/10.1007/s11334-020-00373-4>
19. Beed, R.S., Sarkar, S. & Roy, A. Hierarchical Bayesian Approach for Improving Weights for Solving Multi-Objective Route Optimization Problem", International Journal of Information Technology. [Accepted for Publication]
20. Beed, R.S., Sarkar, S. Roy, A., Biswas S.D., Biswas S, Hybrid Multi-Objective Carpool Route Optimization Technique using Genetic Algorithm and A* Algorithm, Computer Research and Modeling. [Accepted for Publication].
21. Romit S. Beed, Ankita Sarkar, Raya Sinha, Deboshruti Dasgupta, "A study of the effect of the parameters for optimizing profit using Simulated Annealing to solve shelf space allocation problem", Azerbaijan Journal of High Performance Computing. [In Press].

Book Chapter

1. Sunita Sarkar, Arindam Roy, Romit S Beed, From Cash to A Cashless Economy- Need for Digital Competence for a Digital India; Cashless Economy, Mittal Publication. (2019). ISBN-10: 8183249353, ISBN-13: 978-8183249355
2. Romit S. Beed, Sunita Sarkar, Arindam Roy, Durba Bhattacharya, Hierarchical Multi-objective Route Optimization for Solving Carpooling Problem; In: Mandal J., Mukhopadhyay S. (eds) Proceedings of the Global AI Congress 2019, Springer Singapore - Advances in Intelligent Systems and Computing, vol. 1112 (2020), eBook ISBN 978-981-15-2188-1, DOI 10.1007/978-981-15-2188-1
3. Beed R.S., Biswas S, Sarkar S., Roy A. (2020), Carpooling as a Go Green Solution for Environmental Sustainability, "Go Green for Environmental Sustainability: An Interdisciplinary Exploration of The Theory and Applications" (Taylor and Francis Catalogue # 378540, ISBN: 978-0-367-51740-3) [In Press]
4. Sunita Sarkar, Romit Beed & Arindam Roy (2020) Role of Information and Communication Technology in Sustainable Tourism in North East India in Proceedings of 1st International Conference on Business Management (ICBM 2020), Bloomsbury, Department of Business Management, Tripura University, Agartala, February, 2020. [In Press]

Papers presented in Seminars and Conferences

1. Romit S Beed, Nandini Barman, Spandan Ray Chaudhuri, Rana Biswas, "GSM based Multi-purpose Alert System", in 1st International Science and Technology Congress IEMCONGRESS 2014, Kolkata, India, 28-30 August 2014
2. Sunita Sarkar, Arindam Roy, Romit S Beed, "Cash to Cashless Economy: A study on the role of Information Technology"; in ICSSR Sponsored National Seminar on Transition to Cashless Economy, Priorities, Opportunities & the Modes and Options organized by Jawaharlal Nehru School of Management Studies, Assam University, Silchar, 8th to 10th September 2017.
3. Romit S Beed, Sunita Sarkar, "A Study on the Use of Information and Communication Technology in Tourism"; in 6th International Conference on Advances in Computing, Communications and Informatics (ICACCI), Manipal University, 13-16 Sept 2017.
4. Romit S Beed, Sunita Sarkar, Arindam Roy, Shubham Chatterjee "A Study of the Genetic Algorithm Parameters for Solving Multi-Objective Travelling Salesman Problem"; in 16th International Conference of Information Technology (ICIT 2017), Bhubaneswar, 21st to 23rd December, 2017.
5. Romit S Beed, Arindam Roy, Sunita Sarkar, Durba Bhattacharya, "Hierarchical Multi-Objective Route Optimization for Solving Car-Pooling Problem," in Global AI Congress 2019, IEM: IC 59.
6. Sunita Sarkar, Romit Beed & Arindam Roy, "Role of Information and Communication Technology in Sustainable Tourism in North East India" in 1st International Conference on Business Management (ICBM 2020), Department of Business Management, Tripura University, 27-29 February, 2020.
7. Beed R.S., Biswas S, Sarkar S., Roy A. (2020) "A Study on Heuristic Shortest Path A* Algorithm and its Applications in Smart Route Planning"; in International Conference on Computational Intelligence, Data Science and Cloud Computing 2020, Institute of Engineering & Management, 25-27 September 2020, Kolkata.
8. Romit S. Beed, Ankita Sarkar, Raya Sinha, Deboshruti Dasgupta, "A study of the effect of the parameters for optimizing profit using Simulated Annealing to solve shelf space allocation problem", International Workshop on High Performance Computing Application AAHiPC 2020, 17th and 18th November, 2020, Online.