Dr. Sharmistha Jana

Department of Mathematics Midnapore College (Autonomous) Midnapore-721101 West Bengal, India Phone:+91 (787) 222 7694Email:sharmistha792010@gmail.comHome:midnaporecollege.ac.in/Math.aspxORCID iD:orcid.org/0000-0001-5757-4492

Publications

Preprint URLs available at http://orcid.org/0000-0001-5757-4492

Journals and Conferences

- Halder (Jana), S. & Jana, B., (2020). Application of random triangular and Gaussian type-2 fuzzy variable to solve fixed charge multi-item four dimensional transportation problem, Applied Soft Computing, Elsevier, 106589, DOI: 10.1016/j.asoc.2020.106589, (Scopus, SCI,, IF-6.725).
- [2] Halder (Jana), S., Das, B., Panigrahi, G., & Maiti, M. (2017). Some special fixed charge solid transportation problems of substitute and breakable items in crisp and fuzzy environments, Computers & Industrial Engineering, Elsevier, 111, 272-281. DOI: 10.1016/j.cie.2017.07.030, (Scopus, SCI, IF-5.431).
- [3] Halder (Jana), S., Jana, B., Das, B., Panigrahi, G., & Maiti, M. (2019). Constrained FC 4D MITPs for Damageable Substitutable and Complementary Items in Rough Environments, Mathematics, 7(3), 281, DOI: 10.3390/math7030281, (Scopus, SCIE, IF-2.258).
- [4] Halder(Jana), S., Jana, B. (2021), Application of fuzzy logic based GA and PSO to solve 4D multi-item transportation problem for substitute and complementary items. Evol. Intel. DOI: 10.1007/s12065-021-00630-w, (Scopus, IF-2.33).
- [5] Halder (Jana), S. & Jana, B., (2020), Application of fuzzy programming techniques to solve solid transportation problem with additional constraints, Operation, Operations Research and Decisions, No.1, DOI: 10.37190/ord200104. (Scopus, SCIE).
- [6] Halder (Jana), S., Jana, B., Das, B., Panigrahi, G., & Maiti, M. (2019). FCSTP with possibility and expected value approaches in hybrid uncertain environments, Journal of Applied and Engineering Mathematics, TWMS, (Accepted)(Scopus, SCIE).
- [7] Halder (Jana), S., (2021), Application of Expected Value and Chance constraint on uncertain supply chain model with cost, risk and visibility for COVID-19 pandemic, International Journal of Management Science and Engineering Management, Taylor & Francis. (Accepted),(ESCI and Scopus)
- [8] Halder (Jana), S., Das, B., Panigrahi, G., & Maiti, M. (2018). Profit Maximization Solid Transportation Problem with Gaussian Type-2 Fuzzy Environments, Annals of

Pure and Applied Mathematics, 16(2), 323-335, DOI: 10.22457/apam.v16n2a9.

- [9] Halder (Jana), S., Giri, D., Das, B., Panigrahi, G., Jana, B., & Maiti, M. (2018, January). A Solid Transportation Problem with Additional Constraints Using Gaussian Type-2 Fuzzy Environments. In International Conference on Mathematics and Computing (pp. 113-125). Springer, Singapore. DOI: 10.1007/978-981-13-2095-8_10.
- [10] Halder (Jana), S., Giri, D., Das, B., Panigrahi, G., & Maiti, M. (2019, March). 4-Dimensional Transportation Problem for Substitute and Complementary Items Under Rough Environment. In International Conference on Information Technology and Applied Mathematics (pp. 855-872). Springer, Cham. DOI: 10.1007/978-3-030-34152-7_65.
- [11] Halder (Jana), S., Das, B., Panigrahi, G., & Maiti, M. (2017). Solving a Solid Transportation Problems Through Fuzzy Ranking. In Communication, Devices, and Computing (pp. 283-292). Springer, Singapore. DOI: 10.1007/978-981-10-8585-7_27.
- [12] Singha, S., Jana, B., Halder (Jana), S. & Mandal, N. K. (2020). A Survey to Analyse Routing Algorithms for Opportunistic Network. Proceedia Computer Science, Elsevier, 171, 2501-2511, DOI: 10.1016/j.procs.2020.04.271, (Scopus).
- [13] Singh, P. K., Jana, B., & Halder (Jana), S. (2018). Copy Move Forgery Detection through Graph Neighborhood Degree. International Journal of Applied Engineering Research, 13(18), 13421-13427.
- [14] Sanyal, Piyali, Jana, Sharmistha & Jana, Biswapati. (2020). Generalization of Multi-bit Encoding Function Based Data Hiding Scheme. 10.1007/978-981-13-9042-5_15.
- [15] Singha S., Jana B., Jana S., Mandal N.K. (2022), A Novel Congestion Control Algorithm Using Buffer Occupancy RED. In: Das A.K., Nayak J., Naik B., Dutta S., Pelusi D. (eds) Computational Intelligence in Pattern Recognition. Advances in Intelligent Systems and Computing, vol 1349. Springer, Singapore. DOI: 10.1007/978-981-16-2543-5_44
- [16] Singha S., Jana B., Mandal N.K., Jana S., Bandyopadhyay S., Midya S. (2022), Application of Dynamic Weight with Distance to Reduce Packet Loss in RED Based Algorithm. In: Mandal J.K., De D. (eds) Advanced Techniques for IoT Applications. EAIT 2021. Lecture Notes in Networks and Systems, vol 292. Springer, Singapore. DOI: 10.1007/978-981-16-4435-1_52.
- [17] Dey A., Pal P., Chowdhuri P., Jana B., Jana S., Singha A. (2022), Dual Image Based Watermarking Scheme Using Quorum Function. In: Mandal J.K., De D. (eds) Advanced Techniques for IoT Applications. EAIT 2021. Lecture Notes in Networks and Systems, vol 292. Springer, Singapore. DOI: 10.1007/978-981-16-4435-1_13.
- [18] Sharmistha Halder Jana, Biswapati Jana and Tzu Chuen Lu, (2022), Digital Tattooing for Multimedia Data Protection in IoT Perception Layer, Special Issue of IETE Journal of Research "IoT and Block Chain Technology for Smart Cities and Societies", Taylor & Francis, (Accepted),(ESCI and Scopus, IF-1.24).

Participation in Seminar and Conferences

- National Seminar on "Applied and Computational Mathematics and Their Applications", Organized by the Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore, 6-7 March, 2008.
- [2] Two-Day NAAC sponsored National Seminar on "Role of IQAC on Quality Enhancement & Quality Sustenance in Higher Education", Organized by Midnapore College on 7-8 March, 2009.
- [3] National Seminar on "Image Classification and Pattern Recognition", Organized by the Department of Computer Science, Vidyasagar University, Midnapore, 26-27 March, 2009.
- [4] National Seminar on "Recent Development in Applied Mathematics and its Applications", Organized by the Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, Midnapore, 30-31 March, 2011.
- [5] National Seminar on "Recent Trends in Advanced Computing", Organized by the Department of Computer Science, Vidyasagar University, Midnapore, 16-17 March, 2012.
- [6] International Conference on "Information Technology and Applied Mathematics (ICITAM-2017)", Organized by the School of Electronics, Computer Science and Informatics, Haldia Institute of Technology, Haldia-721657, Oct 30 - Nov 1, 2017.
- [7] International Conference on "Communication, Devices and Computing (ICCDC-2017)", Organized by the Department of Electronics & Communication Engineering, Haldia Institute of Technology, Haldia-721657, 2-3 Nov, 2017.
- [8] Seminar on "Fuzzy Set Theory and Applications" Organized by the Department of Mathematics, National Institute of Technology Durgapur, Nov 30 Dec 2, 2017.
- [9] International Conference on "Information Technology and Applied Mathematics (ICITAM-2017)", Organized by the Haldia Institute of Technology, Haldia-721657, 7-9 March, 2019.
- [10] Webinar on "Big Data, Control Theory and Medicine : Borrowing Concepts from Each Other" by Dr. Animesh Acharjee, Senior Research Fellow from Institute of Cancer and Genomic Sciences University of Birmingham, UK organized by NIT Mizoram on July 15, 2020.
- [11] International Webinar on "Algebra and Topology" Organized by Department of Mathematics, PRABHU JAGATBANDHU COLLEGE, ANDUL, HOWRAH, INDIA, held on July 19-20, 2020.
- [12] Attended the International Webinar Granular Mining in Video Analytics, Presented by: Prof. Sankar K. Pal, FNA, FASc, FTWAS, FIAPR, FIEEE INSA Distinguished Professor Chair, Distinguished Scientist and former Director, Indian Statistical Institute, India, On July 20, 2020.
- [13] Webinar on " Development of computational model using deep learning " at ICFAI Tech School, Dehradun on June 14, 2020.

- [14] State Level Webinar on "A Cosmic Voyage" organized by the Department of Mathematics in collaboration with Internal Quality Assurance Cell, New Alipore College on 24 / 07 / 2020 from 4 PM to 6 PM.
- [15] National Webinar on "Nuances of Scientific Publishing" In collaboration with IEEE SB Galgotias University, 18th July 2020.
- [16] International Webinar on "Artificial Intelligence in cloud computing and IoT" In collaboration with IEEE SB Galgotias University, 18th July 2020.
- [17] One week short term online training program on "Matlab Statistic and Data Science" organized by the Department of Applied Science, Sagar Institute of Research and Technology, Bhopal, on July 27 - August 1, 2020.
- [18] One Day Webinar on "Changing Times and New Classrooms" organized by the West Bengal College and University Professors' Association WBCUPA, (South 24 PGS) held on August 09, 2020, Time: 3PM - 7:30PM.