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Education:

LL.B, 2019

Faculty of Law, University of Delhi

PhD in Computer Science, March 2015

Department of Computer Science, University of Delhi

Dissertation: “*Multi-Robot Coalition Formation: A Multi-Objective Perspective*”

Masters in Computer Applications, 2001

Department of Computer Science, University of Delhi

B.Sc (Hons) Statistics, 1998

Hindu College, University of Delhi

Research Interests:

Multi-objective Optimization, Evolutionary Computation, Parallel Programming, Machine Learning and Technology Law.

Publications:

Journal

- Sonia, Manoj Agarwal, Shikha Gupta, Naveen Kumar: MOEA for Discovering Pareto-optimal Process Models: An Experimental Comparison. International Journal of Computational Science and Engineering (2020). Vol 21(3) pg 446-456. doi:10.1504/IJCSE.2020.106067
- Chatterjee I, Kumar V, Rana B, Agarwal M, Kumar N: Impact of ageing on the brain regions of the schizophrenia patients: an fMRI study using evolutionary approach. Multimedia Tools and Applications (2020) pg 1-23.doi: 10.1007/s11042-020-09183-z. **Impact Factor: 2.313**
- Chatterjee I, Kumar V, Rana B, Agarwal M, Kumar N: Identification of changes in grey matter volume using an evolutionary approach: an MRI study of schizophrenia. Multimedia Systems (2020) pg 383–396 doi.: 10.1007/s00530-020-00649-6. **Impact Factor: 1.563**
- Chatterjee I, Kumar V, Sharma S, Dhingra D, Rana B, Agarwal M, and Kumar N: Identification of Brain Regions Associated with Working Memory Deficit in Schizophrenia. F1000Research (2019), 8:124. [Indexed in UGC, Scopus, PubMed; SJR: 0.93; ISSN: 2046-1402]
- Chatterjee, I., Agarwal, M., Rana, B., Lakhyani, N., and Kumar, N.: Bi-objective approach for

computer-aided diagnosis of schizophrenia patients using fmri data. Multimedia Tools and Applications (2018) pg 1-25. doi:10:1007/s11042-018-5901-0. **Impact Factor: 2.313**

- Manoj Agarwal, Nitin Agrawal, Shikhar Sharma, Naveen Kumar, Lovekesh Vig: Parallel Multi-objective Multi-robot Coalition Formation Algorithm, Expert Syst. Appl. 42(21): 7797-7811 (2015). **Impact Factor: 4.452**
- Manoj Agarwal, Naveen Kumar, Lovekesh Vig: Non-additive multi-objective robot coalition formation, Expert Systems with Applications, 41(8): 3736-3747 (2014). **Impact Factor: 4.452**
- Manoj Agarwal, Lovekesh Vig, Naveen Kumar: Multiple Objective Robot Coalition Formation, Journal of Intelligent Systems 20(4): 395-413 (2011).

Conferences

- Sonia Kundu, Manoj Agarwal, Shikha Gupta, Naveen Kumar: Discovering Pareto-optimal Process Models: A Comparison of MOEA Techniques, GECCO, Tokyo, 2018.
- Indranath Chatterjee, Bharti Rana, Manoj Agarwal, Naveen Kumar: Study of Working Memory Impairments in Schizophrenic Patients, OHBM 2018, Singapore June 17-21, 2018.
- Chatterjee I, Agarwal M, and Kumar N (2017); Bi-objective Optimization Approach for Classification of Schizophrenia Patients using fMRI data; Annual Conference of the Society of Mathematical Sciences (Delhi), Delhi, India, May 01-02, 2017
- Nitin Agrawal, Shikhar Sharma, Manoj Agarwal: Parallel Multi-objective Multi-robot Coalition Formation, GPU Technology Conference 2014.
- Manoj Agarwal, Lovekesh Vig and Naveen Kumar: MORCFA: A Multiple Objective Robot Coalition Formation Algorithm, 5th Indian International Conference on Artificial Intelligence (IICAI-11), Tumkur, India, December 14-16, 2011.
- Manoj Agarwal, Lovekesh Vig and Naveen Kumar: Multi-Objective Robot Coalition Formation For Non-Additive Environments, In the 4th International Conference on Intelligent Robotics and Applications (ICIRA2011), Germany 2011.
- Manoj Agarwal, R K Agrawal, Naveen Kumar: Identification of Relevant Feature Sets for Multi-class Intrusion Detection Problem, National Conference on Methods and Models in Computing, 2006.

Teaching Experience:

Hansraj College, University of Delhi

Assistant Professor, 16th July 2005- present

Ram Lal Anand College, University of Delhi

Lecturer, 16th July 2002- 15th July 2005

Maitreyi College, University of Delhi

Lecturer, 25th Jan 2002- 30th April 2002