



5th International Conference on Advanced Machine Learning Technologies and Applications (AMLTA-2020)
Manipal University Jaipur, Jaipur, Rajasthan, India
February 13-15, 2020.

Special Session on

Machine Learning Techniques for Evolutionary Algorithms (MLTEA)

Special Session Organizer(s):



Dr. Pijush Barthakur received his Ph.D degree on Network Security from Sikkim Manipal University, India in 2016 for the thesis “Development of a Real-Time Machine-Learning based Botnet Detection Mechanism”. Currently, he is working as Professor in the Department of Master of Computer Application, KLS Gogte Institute of Technology, Belagavi, Karnataka. Prior to this he worked as Associate Professor at Department of Computer Applications, Sikkim Manipal Institute of Technology, Sikkim, India. He has more than 18 years of teaching experience. His research interests are in the area of Network Security. He has reviewed papers for International Journal of Network Security (IJNS). He served as a member of Technical Program Committee for many international conferences like CyberC2013, ICRCICN-2017, ISSIP 2017, ICACCP – 2017, ICECCOT-2018.

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Dr. Jyotirmoy Karjee obtained his Ph.D in Engineering from Indian Institute of Science, Bangalore in the year 2014. He did his Post-Doctoral research from Technical University of Munich, Germany. He was the recipient of HERITAGE Erasmus Mundus European fellowship to do his postdoctoral research in the year 2014. He did his Bachelor of Engineering in Electronics and Master of Engineering in Information Technology in the year 2003 and 2005, respectively. He has almost 8 years of experience in various industries and educational institutions. Presently, he is working as a Chief Engineer at Samsung R&D Institute, Bangalore. Prior to Samsung R&D Institute, he worked in TCS Research and Innovation Labs, Bangalore as a Scientist. He has published several papers in International Journals, reputed

International Conferences and filed many patents. He received Best Paper Award in the 3rd International conference on Recent Trends in Information, Telecommunication and Computing in the year 2012. He was selected as the winner of AIP Anchor Awards in appreciation of effort towards Academic Interface Programme at TCS Research and Innovation Labs in the year 2017. He is the technical reviewer of many reputed Journals and International conferences. He is also an active member of IEEE. He is interested in doing research in Statistical Signal Processing, Wireless Communications, Machine Learning, Mobile Computing and Internet of Things.

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DESCRIPTION

Evolutionary computation (EC) is a family of algorithms for optimization inspired by the mechanisms of biological evolution and behaviors of living organisms. EC algorithms include genetic algorithm (GA), evolutionary programming (EP), evolutionary strategies (ES), genetic programming (GP), learning classifier systems (LCS), differential evolution (DE) and estimation of distribution algorithm (EDA). It also includes swarm intelligence (SI) algorithms like ant colony optimization (ACO) and particle swarm optimization (PSO). EC algorithm deals with ample data about the search space, problem features, and population information during the iterative search process. On the other hand Machine learning (ML) is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Machine learning focuses on the development of computer programs that can access data and use it learn for themselves. Application of ML techniques to EC algorithms may lead to improved search speed and accuracy for a wider range of complex real-world applications. Therefore, applying ML to EC algorithms have wide applicability in different practical problems and an emerging trend to follow.

SCOPE AND TOPICS

The special session aims to solicit original, full length original articles on new findings and developments from researchers, academicians and practitioners from industries, in the area of machine learning techniques and applications for evolutionary algorithms.

The topics of interest include, but are not limited to:

- Genetic programming and Genetic algorithms
- Ant colony optimization
- Artificial immune systems
- Scatter search
- Particle swarm optimization
- Memetic algorithms
- Metaheuristics and machine learning

IMPRTANT DATES

Paper Submission: 15 August 2019

Paper Accept/Reject Notification 15 September 2019

Camera Ready Paper Submission 30 September 2019

Registration Opens 15 September 2019

Early Bird Registration closes 15 November 2019

SUBMISSION GUIDELINES

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