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Special Session on “Nature Inspired Algorithms for Feature Selection and Function Approximation (NIAFSFA)”

Session Chair:

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Theme of Session:

Computational Intelligence (CI) has played a significant role in various industrial applications such as pharmaceutical, medical, chemical, etc. Data generated or collected for modeling is a crucial aspect apart from the conventional experimental work carried out in the industry. Often collected data need to be analyzed. In this case, CI tools help in understanding and modeling collected data. For several applications, the critical variables involved in the experimental process are required to be determined. Hence, feature selection methods helps discovering these critical variables. This session is devoted to novel research on nature inspired algorithms for feature selection and function approximation in real world applications.

Topics of Interest:

We invite original (un-published) research contributions based on the above mentioned theme including following topics **but not limited to:**

Dimensionality reduction

- Feature weighting
- Feature ranking

Important Dates

Last Date of Paper Submission

25th December, 2016

Notification of Acceptance

2nd January, 2017

Camera Ready Copy

10th January 2017

Publication

All accepted and registered papers of this special session will be published in one of the following Scopus/ Thomson Reuters Indexed Journal:

- International Journal of u- and e-services, Science & Technologies (SCOPUS Indexed)
- International Journal of Control Theory and Applications (SCOPUS Indexed)
- International Journal of Applied Business and Economic Research (SCOPUS Indexed)
- International Journal of Economic Research (SCOPUS Indexed)
- International Journal of Computer Science and Information Security (Thomson Reuters Indexed)
- International Journal of Advanced and Applied Sciences (Thomson Reuters Indexed)
- International Journal of Control & Automation (SCOPUS Indexed)
- International Journal of Software Engineering & its Applications (SCOPUS Indexed)
- International Journal of Security & its Applications (SCOPUS Indexed)
- International Journal of Hybrid information Technology (SCOPUS Indexed)
- International Journal of Smart Home (SCOPUS Indexed)

Registration

Please visit conference webpage for registration and other details:

<http://scesm.org/registration.html>



- Subset selection
- Feature extraction/construction
- Feature selection methodology
- Integration with data mining algorithms
- Data streams and time series
- Selection in extremely high-dimensional domains
- Real-world case studies and applications

Function Approximation

- Neural networks
- Fuzzy neural networks
- Support vector machines and kernel methods
- Mixture models, ensemble learning, and other meta-learning or committee algorithms
- Hybrid learning methods
- Deep learning
- Brain-inspired cognitive architectures
- Collective intelligence
- Self-configuring systems
- Hybrid intelligent systems

Nature Inspired Algorithms

- Algorithms such as ant colony optimization, bees, particle swarm optimization, fireflies, leaping frog, swarm robotics, etc.
- Modeling and analysis of new computational swarm intelligence algorithms
- Hybrid schemes with other algorithms
- Theoretical aspects of computational swarm intelligence algorithms
- New benchmarks and performance measures to evaluate nature inspired algorithms
- Applications to single-objective, multi-objective optimization
- Hybridization of evolutionary computation and machine learning, information theory, statistics, etc.
- Nature inspired algorithms in real-world applications, e.g. text mining, speech mining, sentiment analysis, bioinformatics, image analysis, face recognition, video processing, network optimization, WiFi localization, etc

Paper Submission Process:

Please submit your paper (in word/pdf format) at following email:

Email: sujata238dash@gmail.com



with Subject Line, ‘**Research Paper for Special Session (NIAFSFA) in SCESM-2017**’ from your email.

OR

Please submit your paper at following link:

<http://scesm.org/account/login?tc=sb>

Note: Please select name of session – “Nature Inspired Algorithms for Feature Selection and Function Approximation (NIAFSFA)” while submitting your paper.

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