SOFA 2018

8th International Workshop on Soft Computing Applications
13-15 September, 2018 – Arad, Romania

Organized by:

"Aurel Vlaicu" University of Arad

Special Session:

Computational Intelligence Techniques & Methods for recent applications
(Optimization, Computer Science, Engineering and Bio-Medical Sciences)

Important Dates:

- Submission of full papers: 2 April, 2018
- Notification of acceptance: 4 June, 2018
- Submission of final paper and early payment: 30 July, 2018

Scope:

The aims and objectives of this special session is to bring together academicians, researchers, professionals, executives and practicing engineers from various industries, research institutes and educational bodies to share, review, exchange ideas and discuss current developments in nature inspired meta-heuristics. Developing economies, aspiration for improved quality of life and rise in the rate of growth have led to the development of various infrastructure facilities in the society. This session offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions, which are able to shape new trends in Computer Science, Engineering, Optimization and Bio-Medical sciences for the development of human mankind being as a whole. Hopefully, these discussions will open a debate on new opportunities and new challenges in the area, unifying the efforts toward the development of new adequate tools, protocols and databases for evaluating and monitoring the progress in area of interest.

Topics:

- **Advanced Computing :** nature inspired computing, artificial intelligence and machine learning, neural networks, parallel and distributed algorithms, computational intelligence, green computing, mobile computing, ubiquitous computing, cryptography and applied mathematics, internet computing, reconfigurable computing, biomedical computing and bioinformatics.
- **Hybrid Intelligent Models and Applications**: hybrid optimization techniques, ant colony for neural network optimization, hybrid evolutionary algorithms, chaos theory in genetic algorithms, genetic algorithm for fuzzy system optimization, genetic algorithms for neural network optimization, genetic fuzzy systems, genetic neural systems, nature – inspired smart hybrid systems, neuro – fuzzy models and applications, hybrid intelligent systems for pattern recognition, hybrid intelligent systems for data analysis and data mining, hybrid modular neural networks and neuro –fuzzy-genetic approaches.
- **Real life Applications**: bio–medical datasets, computer science, engineering, mechatronic, hybdraulic, industry and electronic applications (or functions).

Publication:

- All accepted papers of SOFA 2018 will be published by Springer, Advances in Intelligent Systems and Computing (ISSN 2194-5357);
- The books of this series are submitted to ISI Proceedings, SCOPUS, EI-Compendex, DBLP, Google Scholar and Springerlink.

Special Session Organizers:

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For more information visit: http://www.sofa2018.org/index.html