Nature-Inspired Algorithms and Neural Networks (NIANN2018)

Panellists/Organizers: Xing-Shi He (China), Qin-Wei Fan (China), Milan Tuba (Serbia), Xin-She Yang (UK)

Nature-inspired algorithms such as particle swarm optimization and firefly algorithm have become effective and popular in recent years, and they have been applied to optimize design parameters in many nonlinear problems in engineering and industries. These algorithms have also been used to tune and optimize hyperparameters related to artificial neural networks with applications in deep learning and data mining. This workshop intends to provide a timely platform for researchers to exchange ideas and discuss the recent developments in both areas of nature-inspired computation and artificial neural networks so as to enable further developments.

Topics include (but not limited):

- Nature-inspired optimization algorithms
- Swarm intelligence
- Parameter tuning and sensitivity analysis
- hyperparameter optimization
- Neural networks and improvements
- Theoretical analysis, stability and convergence of algorithms and neural networks
- Applications such as networks optimization, combinatorial optimization, engineering designs, image processing and data mining

Important Dates:

20 April 2018 Paper submission

15 May 2018 Notification of acceptance

31 May 2018 Final version and registration

3-5 September 2018 Conference dates

For more information about the submission guidelines and the information of the workshop, please visit the conference website: http://eann2018.org/submission.html

In submitting a paper for this workshop, please add a keyword "NIANN2018 Workshop" in the submission form and send an email to x.yang@mdx.ac.uk with the Paper Number after submission

Organizers:

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