Advances in Randomized Neural Networks

Guest Editor:

Dr. Claudio Gallicchio
Department of Computer Science, University of Pisa, 56126 Pisa, Italy

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closed (31 March 2019)

Message from the Guest Editor

In recent years, the study of Randomized Neural Networks has received a great deal of attention from the neural networks research community, making the randomized approach a successful, widely-popular, and well-attested paradigm for learning in a large class of domains.

This Special Issue calls for contributions that target the study and analysis of randomized neural networks from both theoretical and application viewpoints. The topics of interest include, but are not limited, to the following:

- neural networks with random weights
- randomized algorithms for neural networks
- random vector functional link, extreme learning machines, no-prop, and stochastic configuration networks
- reservoir computing, echo state networks, and liquid state machines
- deep neural networks with random weights (e.g., deep extreme learning machines and deep echo state networks)
- neural networks based on random projections
- physical implementations of randomized neural networks
- real-world applications

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Special Issue

Editor-in-Chief

Prof. Dr. Antony Bryant
Headingley Campus, Leeds
Beckett University, Leeds LS6
3QS, UK

Message from the Editor-in-Chief

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