Special Issue

Neural Architecture Search

Message from the Guest Editors

In recent years, Deep Learning has quickly been becoming a de facto standard for solving real world problems of very diverse kinds. Techniques such as convolutional neural networks are outstanding performers when tackling computer vision problems, LSTMs and other recurrent architectures are proficiently solving natural language processing and understanding problems, and deep learning is in general being considered as a promising approach for many other domains. We invite researchers to contribute original research papers devoted to advance in this field. Topics relevant to the Special Issue include but are not limited to the following:

- Neuroevolution of deep learning architectures;
- Novel search methods for architecture optimization;
- Self-tuning of learning parameters;
- Automatic discovery of novel deep learning architectures;
- Multiobjective optimization in deep learning networks;
- Automatic performance optimization in deep learning;
- Evolution or optimization of adversarial models;
- Collaborative or competitive evolution in deep learning;
- Applications of neural architecture search.

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closed (15 September 2020)

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