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Feature Selection Meets Deep Learning

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2019)

Message from the Guest Editor

The primary focus of this Special Issue will be on *feature selection* and *deep learning,* that is the question of how deep learning models can be imbued with FRS strategy. In fact, FRS can help to regulate the elaborate learning process behind DNNs by (i) simultaneously learning which features are informative in the process, (ii) reducing the significant redundancy in deep convolutional neural networks (CNNs) by pruning neurons, (iii) regulating dynamically the dropout factor to improve the prediction performance, and so on.

This Special Issue calls for contributions that target the study and analysis of FRS strategies for deep learning models from both theoretical and application perspectives. The topics of interest include, but are not limited, to the following:

- Pruning networks using feature selection strategies
- Feature selection based dropout
- Feature selection layers in CNNs
- Relevancy and residual DNNs
- Deep feature selection
- Feature selection using DNNs
- Please refer to the submission page for the submission guidelines.