Special Issue

Recent Advances in Automated Machine Learning

Message from the Guest Editor

Advances in automated machine learning(AutoML) will have a huge impact in many areas of deep learning. For machine learning projects to have a successful start, we need to automate exploratory data analysis and feature selection to explore and understand the context, property, and quality of the data. For optimal performance, we need to develop effective model selection and evaluation methods to search for hyperparameters and network architecture. Moreover, since AutoML methodologies deal with multiple models simultaneously, we need to devise smart strategies for maintaining homogeneous/heterogeneous models with parallelized and limited resources. Techniques for searching for (or creating) optimal hyperparameters and network architectures with contemporary machine learning scenarios are attracting increasing interest from the research community. In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the fields of automated machine learning. Both theoretical and experimental studies are welcome, as well as comprehensive review and survey papers.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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