Self-Learning and Self-Adapting Algorithms in Machine Learning

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Message from the Guest Editors

AI techniques in data models help deal with uncertainties when process models are challenging to obtain. However, considering that either the system or its environment may evolve, the nature and the distribution of the data may change, leading to data model inaccuracy. When this happens, AI techniques can be used to adapt the data model; the challenge then is maintaining an accurate data model.

The development of such systems is advanced over time by AI technologies such as Reinforcement Learning, Continuous Learning, Deep Learning and Machine Learning.

Nowadays, many application fields, such as gaming, finance, banking, autonomous vehicles, healthcare and robotics, are benefiting from the adoption of this paradigm.

This Special Issue aims to bring together the latest achievements and breakthroughs by academia and industry in self-learning and self-adapting systems.

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Special Issue

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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