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Algorithmic Aspects of Neural Networks

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Message from the Guest Editors

The recent fast resurgence of Artificial Intelligence, after several decades of unsatisfactory advances, is due to a family of algorithms collected under the term Deep Learning. The amazing success achieved by deep learning was totally unexpected, because it does not include substantial innovations. It is just a derivation from artificial neural networks, a field that was stagnating at the beginning of this century. This surprise has motivated investigation into algorithmic aspects that can explain why deep learning works so well, and so much better than previous neural networks. This Special Issue collects early results of this research.

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Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

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