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Application of Neural Computation in Artificial Intelligence

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Message from the Guest Editors

Computational intelligence is one of the most dynamically developing fields of computer science. One of the most powerful computational intelligence tools is artificial neural networks. These are structures inspired by the biological neural networks that make up the brain. A structure of this type learns to perform tasks thanks to given examples. At present, there is extensive interest in intelligent methods in application and theoretical fields. The above is visible by witnessing the continuous introduction of newer topological structures and teaching algorithms into this scientific domain. In particular, this dynamic is visible in the field of deep learning structures and procedures. Due to their specific plasticity and scalability, a tool called “Artificial Neural Networks” can be found to be employed in a very wide range of applications.

Keywords:

- neural networks
- convolutional neural networks
- cloud computing
- nature of artificial intelligence
- nature-inspired predictions methods
- model interoperability
- machine learning
- natural language processing
- artificial neural network

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Message from the Editor-in-Chief

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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