Deep Learning Algorithms in Computational Intelligence: Advances and Applications

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Message from the Guest Editors

Research in image processing and pattern recognition has exponentially increased in the past decades due to the improvement in both quality and resolution of imaging sensors and the dramatic increase in computational power. This increase has also been accompanied by smoothing the boundaries between different applications of image processing and pattern recognition, making it really interdisciplinary. Computational intelligence provides solutions for complex real-world problems to which mathematical methods of image processing and pattern recognition cannot be directly applied. In this case, nature-inspired computational methodologies and approaches based on deep learning can be useful. Recently, deep neural networks have become a standard tool for solving many complex real-world problems.

The objective of this special issue is to invite original research contributions that address the broad challenges faced in computational intelligence using deep learning algorithms. We look for recent advances in computational intelligence as well as new applications in many scientific fields, ranging from science and engineering to medicine and social activities.

Special Issue

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Message from the Editor-in-Chief

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