

Special Issue

Deep Learning Algorithms in Computational Intelligence: Advances and Applications

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.

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Deadline for manuscript submissions

closed (31 July 2023)



Mathematics

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CiteScore 4.6



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The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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