Computational Intelligence in Data Fusion and Image Analysis

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Message from the Guest Editors

Dear Colleagues,

Recent years have demonstrated the importance of computational power in developing science and technology. This influence was even more clearly visible in the last decade, as the effectiveness of computational hardware such as graphical processing units (GPUs) has increased enormously. The most vivid example is the recent progress in artificial intelligence and machine learning, especially in the field of deep learning. The computational power of modern GPUs has enabled the training of deep neural networks in sensible amounts of time. As a consequence, difficult tasks such as image understanding, speech recognition, and natural language processing became accessible for machines, reaching a beyond-human level in some cases. These kinds of tasks can often positively affect important aspects of human lives, such as in medicine.

The aim of this Special Issue is to consolidate research efforts towards improving computational intelligence algorithms used for complex data of various kinds, with emphasis on data fusion and image analysis tasks.

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Special Issue

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Message from the Editor-in-Chief

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