

Special Issue

Computational Intelligence in Image Analysis

Message from the Guest Editors

Image analysis is a classic yet still developing area of significant practical importance. There are different goals and approaches related to image-based services. For increasingly challenging computer vision tasks, it is not always possible to fully understand the application domain and, in consequence, to perform precise mathematical modelling of the considered problem. Nature-inspired computational methodologies, called computational intelligence, can overcome those problems. They can automatically find a solution based on data or experimental observation. The number of methods and their variants within computational intelligence is growing, and they are characterized by a commonly used term, machine learning. Currently, deep learning is the most popular approach. The purpose of Special Issue is to connect classic image analysis techniques with modern computational intelligence, which can be beneficial for both of domains. Machine learning is a powerful tool, allowing us to tune parameters of well-designed mathematical formulas, whereas domain-knowledge can enable the learning of models if the amount of training data is insufficient.

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