Special Issue

Multimodal Image Analysis with Advanced Computational Intelligence

Message from the Guest Editors

Biomedical sensors and imaging devices can be used to obtain data on different modalities in clinical settings. For example, lesion features can be obtained by MR imaging and CT imaging. The application of these techniques may reveal differences between various modalities, which can provide incidental supplementary references for diagnosis and/or prognosis. In recent years, advanced intelligence techniques such as multi-view learning and multi-task learning have provided solutions enabling the reasonable and effective exploitation of the differences between these modalities. Such advanced computational intelligence techniques can be employed to obtain consistent and complementary representations of various modalities by mining the differences between them, thus improving the performance of decision making. This Special Issue aims to present high-quality research and review manuscripts focusing on multimodal biomedical image fusion. The topics of interest include, but are not limited to, the following:

- multimodal fusion
- multi-view/-task learning
- multimodal registration
- advanced computational intelligence

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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