Special Issue

Biometric Technologies Based on Optical Coherence Tomography (OCT)

Message from the Guest Editors

Optical coherence tomography (OCT) is ideal for eye diagnostics, especially of the anterior segment or the retina. However, OCT may also be a very interesting technology for biometrics, including the biometrics of the human eye.

OCT allows also for successful examination of other various materials and their structures. OCT can, among others, be used for the measurement of material thickness, testing of thin silicon wafers, structural analysis of polymer composites, as well as to examine the structure of artwork. OCT data processing requires the use of advanced IT methods, including machine learning algorithms.

This Special Issue of the Sensors Journal deals with the research of OCT technologies and techniques in biometric applications. The research should concern both hardware and software aspects of the application of OCT measurements of people, animals, and plants. OCT acquisition OCT biometrics OCT image denoising Real time processing Machine learning algorithms Visualization of OCT data Medical diagnostics

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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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