Special Issue

Sensing, Computing and Imaging in 3D Microscopy

Message from the Guest Editor

This Special Issue is devoted to providing a general view of recent advances in 3D microscopy, highlighting methods that provide additional information about microscopic samples through non-conventional sensing approaches. For instance, superresolution techniques retrieve high-resolution information of specimens that is not attainable in a conventional microscope. Other techniques such as quantitative phase imaging or Brillouin microscopy measure the morphological properties of microscopic samples by means of conventional intensity sensors. Light-field microscopy and Fourier ptychography are based on multiplexing the spatio-angular information of the sample in the sensor plane. These techniques, among others, combine conventional optics with unique sensing and computing approaches, leading to novel paths to inspect and characterize samples. The contributions to this Issue can be original research articles or reviews regarding the state-of-the-art of an already existing technique.

Guest Editor

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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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