Special Issue

Photonic MEMS and Optofluidic Devices

Message from the Guest Editors

On-chip co-integration of movable structures together with micro-optical components led to a rich variety of photonic MEMS. Recent applications include handheld spectrometers, swept laser sources and non-invasive biomedical imaging heads. Besides, an important key for further development of microfluidic devices is the co-integration of optical technologies, including light sources and optical components leveraging the broad range of light-matter interactions, high sensitivity of optical resonators and localization of optical forces. This integration enables on-chip functionalities of cell-sorting, refractometry, optical spectrometry, fluorescence imaging, die lasing and photocatalysis; all relate to “Optofluidics”, exploiting the physics and technologies of coupling photonics with fluidics. This Special Issue seeks to showcase research papers, short communications, and review articles that focus on novel methodological, technological and engineering developments in the area of Photonic MEMS and Optofluidic Devices. The Special Issue will also publish selected papers from the Optofluidics 2017 conference, 25–28 July 2017, Singapore.

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