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Micro-Mirror Arrays as Versatile Photonic Tools

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Message from the Guest Editor

Arrays of micro electromechanical (MEMS) mirrors, sometimes referred to as a digital micromirror device (DMD), have been commercially available for over 2 decades. During this period, their predominant commercial use has been for digital projection. This mature, robust technology has been applied to many and various applications across a range of disciplines. The list of applications continues to grow. The particular benefits of these micromirror arrays for the manipulation of light involve speed, wide spectral bandwidth and high power handling capability in comparison to other types of new applications and disciplines.

This Special Issue aims to collect a range of applications and techniques that make use of these arrays to demonstrate the versatility of the devices.

In this Special Issue, original research articles and reviews are welcome. Research areas may discuss (but is not limited to) the following:

- Wavefront control
- Wide bandwidth optics
- Spectroscopy
- Holography and diffractive control
- Mode generation and selective filtering
- Optical computation
- Lithography
- Confocal microscopy
- Hyperspectral imaging

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