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Progress in 3OM: Opto-Mechatronics, Opto-Mechanics, and Optical Metrology

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Deadline for manuscript
submissions:

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Message from the Guest Editors

This Special Issue is based on the 3OM concept, which unites three related domains:

(1) Opto-Mechatronics is a blend of optics & photonics, precision mechanics, electronics, control & automation, as well as IT.

(2) Opto-Mechanics usually fills the gap between the high requirements of optical design and the capabilities of mechanical technologies, addressing tolerances, errors, positioning issues, and methods to tackle them.

(3) Optical Metrology is a large umbrella of applications that benefits from both domains above, and includes fields as diverse as industrial measurements (e.g., Non-Destructive Testing (NDT)), biomedical imaging (with a range of techniques, for example Optical Coherence Tomography (OCT) or photo-acoustics), remote sensing, as well as security & defence.

The aim of this Special Issue encompasses all these three domains united under the 3OM concept including laser manufacturing and robotics, as well as lasers in medicine.



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Special Issue



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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