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Optical Sensing Based on Microscale Devices

Guest Editors:

Prof. Dr. Tarik Bourouina

ESIEE/Esycom-Lab, Cité
Descartes 2 Bd Blaise Pascal,
93162 Noisy-le-Grand, France

Dr. Yasser M. Sabry

Electronics and Electrical
Communication Engineering,
Faculty of Engineering, Ain-
Shams University, 1 Elsarayat St.,
Abbassia, Cairo 11517, Egypt

Deadline for manuscript
submissions:

closed (31 December 2019)

Message from the Guest Editors

Dear Colleagues,

We are very pleased to introduce this Special Issue on
“Optical Sensing Based on Microscale Devices”.

Optical sensing outperforms electrical and chemical sensing in terms of its high accuracy, long-term stability, no interaction with the analyte, and high performance under harsh conditions. Optical sensors based on microscale devices are in the form of micro-optics, which are optical components and systems that are a few micrometers to a few millimeters in size. These include, but are not limited to, tunable micro lenses, micron-core and photonic crystal optical fibers, silicon photonics, micro mirrors and optofluidics. Together with the integration of movable structures within a chip, this leads to the photonic MEMS/NEMS, adding more degrees of freedom and functionalities to sensing systems. [...]

For further information, please visit http://www.mdpi.com/journal/sensors/special_issues/Optical_Sensing_Based_Microscale_Devices.

Prof. Dr. Tarik Bourouina

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Guest Editors



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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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