

IEEE Sensors Council
CALL FOR PAPERS
IEEE Sensors Journal Special Issue on
Advances in Fiber-optic Sensing Technologies

Fiber-optic sensors have gained a huge market for sensing temperature and mechanical strain, but also to measure displacements, vibrations, pressure, accelerations, rotations or concentrations of chemical species. The success of bulk fiber-optic sensors has greatly motivated the development of new types of fiber sensors, especially in nanophotonics, biondiagnostics and biophotonics.

The novel fiber-optic sensing technologies have been updated quickly in recent years. New ideas have arisen by new functional materials, new fabrication techniques and new photonic structures. The collection of all these achievements will supply more sparks and opportunities to academia and industry.

Hence, it is necessary to develop mutual collaborations and network opportunities in the IEEE Sensor Journal to support the field both in research, application, commercialization and, perhaps most importantly, training the next generation of young researchers and leaders.

It is intended that this Special Issue of the IEEE Sensors Journal will show the newest “Advances in Fiber-optic Sensing Technologies”. Original research contributions, tutorials and review papers are sought in related areas including (but not limited to):

Fiber-optic chemical, gas, biological, environmental and medical sensors	Lab-on-fiber and surface plasmon-resonant sensors
Fibre-optic gyroscopes, interferometric and polarimetric sensors	Fiber-based physical, mechanical, acoustic, and electromagnetic sensors
Multicore optical fibers and applications	New fibers and photoelectric devices
Distributed fiber-optic sensing	Optical- fiber sensor interrogation techniques
Photonic crystal fibers, devices and sensors	Multiplexing and networking of fiber-optic sensor
Micro- and nano-structured fiber sensors	Novel concepts for fiber-optic sensing

Solicited and invited papers shall undergo the standard IEEE Sensors Journal peer review process. All manuscripts must be submitted on-line, via the IEEE Manuscript Central™, see <http://mc.manuscriptcentral.com/sensors>. When submitting, please indicate that the paper is intended for the “Advances in Fiber-optic Sensing Technologies” Special Issue. Authors are particularly encouraged to suggest names of potential reviewers for their manuscripts in the space provided for these recommendations in Manuscript Central. For manuscript preparation and submission, please follow the guidelines in the Information for Authors at the IEEE Sensors Journal web page, <http://www.ieee-sensors.org/journals>.

Deadlines:

Manuscript Submission:	Aug. 1, 2019
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Final Manuscript published in IEEEExplore:	Jan.1, 2020
Tentative date of paper issue:	Jun.1 2020

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