

Announcement of an IEEE/OSA
***Journal of Lightwave Technology* Special Issue on:**
Imaging and Illumination with Optical Fiber

Submission Deadline 31 January 2019
Publication: September/October 2019

The IEEE/OSA Journal of Lightwave Technology (JLT), a Hybrid Open Access and Co-Sponsored publication presents a forum for authors to publish a cluster of papers in a Special Issue on imaging and illumination applications of optical fiber. Optical fibers have been used for decades to deliver information, images and more simply as point light source, with applications in the military, commercial, and scientific fields. However, recent advances in the areas of Illumination (light delivery and generation) and Imaging using optical fibers has fueled a significant level of research activities in this area with applications related to the medical, sensing and consumer applications. The purpose of this issue of JLT is to document the current status in this field through a collection of original and invited papers and tutorials.

Relevant topics include, but are not limited to:

Medical Applications of Fibers such as:

- Endoscopy
- Optical Coherence Tomography
- Light treatment delivery
- Biocompatible optical fibers

Fiber based light Sources and delivery systems:

- White light generation through super-continuum sources
- High brightness illumination (e.g. laser-illumination for endoscopic surgery)
- Illumination and accent lighting with scattering fibers
- Tunable or swept fiber sources

Imaging using:

- Random media such as multimode fibers and Anderson localized fibers
- Fibers and fiber bundles, dual core fibers, hollow core fibers, etc.
- Phase separated fibers
- Spectrally encoded imaging through fibers
- IR/Mid-IR fibers for sensing and spectroscopy

On behalf of the Guest Editors and the Editor-in-Chief, we encourage you to submit your work for inclusion in this Special Issue. Accepted papers will appear in the May/June 2019 hardcopy issue with accepted papers posted online within one week of author final file upload. Mandatory page charges of \$260.00 per page are enforced for Original Contributions in excess of 7 pages and in excess of 10 pages for Invited Papers. Tutorial presenters will be invited to write articles that are up to 16 pages in length. The same mandatory fees apply to each Tutorial paper in excess of 16 pages.

The Guest Editors for this issue are **Aleksandra Boskovic**, Corning, **Joel Carpenter**, University of Queensland, **Eric Buckland**, BiopTigen, **Ayman Aburaddy**, CREOL

Submissions by website only: <http://mc.manuscriptcentral.com/jlt-ieee>

Manuscript Type: "IIOF"

Submission questions: Doug Hargis, Journal of Lightwave Technology d.hargis@ieee.org