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Preliminary Call for Papers

Announcing an Issue of the IEEE

JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS on

Optical Detectors

Submission Deadline: June 1, 2017

Hard Copy Publication: March/April 2018

The **IEEE Journal of Selected Topics in Quantum Electronics** invites manuscripts that document the current state-of-the-art in the area of **Optical Detectors**. The detection of light across the optical spectrum from ultraviolet to long-wave infrared wavelengths continues to be one of the most fundamental research areas in engineering. New applications and the increasingly stringent requirements in imaging, sensing, and optical communications have driven continuous developments in optical detector device design and materials science. In addition, progress in photonic integration has enabled the development of large-scale, cost-effective detector architectures with enhanced functionality. The objective of this special issue is to highlight recent progress and trends in innovative optical detector technology and its applications. The solicited areas include (but are not limited to):

- High-speed photodiodes and photomixers
- Detectors and focal plane arrays for UV, visible, and IR detection
- Avalanche photodiodes and single-photon detectors
- Optical detectors based on novel materials and substrates
- Photodetectors on silicon using monolithic, heterogeneous or hybrid integration technologies
- Coherent optical receivers and integrated photoreceivers for the detection of advanced modulation formats
- Microwave photodiodes for analog applications
- Optical detectors with applications in fiber optic communications, infrared cameras, and quantum communications.

The Primary Guest Editor for this issue is **Andreas Beling**, University of Virginia, and the Guest Editors are **Meredith Hutchinson**, Naval Research Laboratory, **Clint Schow**, University of California Santa Barbara, and **Jin-Wei Shi**, National Central University, Taiwan.

The deadline for submission of manuscripts is **June 1, 2017**. Hardcopy publication of the issue is scheduled for **March/April 2018**.

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For inquiries, please contact:

IEEE Photonics Society JSTQE Editorial Office - Chin Tan Lutz (Phone: 732-465-5813, Email: c.tanlutz@ieee.org)

The following document are required during the mandatory online submission at: <http://mc.manuscriptcentral.com/jstqe-pho>.

1) PDF or MS Word manuscript (double column format, up to 12 pages for an invited paper, up to 8 pages for a contributed paper). Manuscripts over the standard page limit will have an overlength charge of \$220.00 per page imposed. Biographies of all authors are mandatory, photographs are optional. See the Tools for Authors link:

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