



**Announcement of an IEEE/OSA  
Journal of Lightwave Technology Special Issue on:**

**Avionics and Vehicle Fiber-Optics and Photonics**

**Submission Deadline: 1 February 2018  
Publication: October 2018**

In recent years, there has been substantial progress in fielding fiber-optic and photonic systems on a variety of mobile commercial and military platforms. With advances in high-speed optical components and subsystems, as well as integrated photonic architectures, this trend is expected to continue to increase. As the application space expands, it is critical to assess the opportunities and challenges in deploying photonic architectures on mobile platforms in challenging environments. Most attention has been focused on airborne and shipboard platforms. But a potential growing arena is application of lightwave technology to automotive platforms; outreach to the automotive community is planned.

**Scope**

This special issue will cover all aspects of deploying fiber-optic and photonic technology on commercial and military platforms and for avionic, aerospace, land, and sea applications. The special issue will be announced at the pre-eminent conference of the topic (AVFOP 2017, November 2017) which covers fiber-optic networking architectures, high-speed and ruggedized optical component development, optical subsystems, and wideband photonic architectures for radio-frequency and microwave signal detection, remoting, and processing. Potential topics include (though are not limited to):

- Integrated photonics
- Photonics for signal processing
- Applications of photonic in receiver and detection applications
- Photonics for electromagnetic maneuver warfare and radar
- Photonic components and systems for mobile platforms
- Satellite applications of photonics
- Characterization and qualification of photonic systems
- Sensing applications of photonics

It is expected that this issue will primarily consist of elaborations on accepted papers presented at the 2017 Avionics and Vehicle Fiber-Optics and Photonics conference (AVFOP 2017) which will be held 7 – 9 November, 2017 in New Orleans, LA, USA

On behalf of the Guest Editors and the Editor-in-Chief, we encourage you to submit your paper to the journal. Typically, these papers are 18 pages for the tutorial reviews, 10 pages for invited papers, and 7 pages for the regular papers. Mandatory page charges of \$260USD per page are enforced in excess of 7 pages with accepted papers posted online within 1 week of author final file upload.

The Guest Editors for this special issue will be: **Jason McKinney** (U.S. Naval Research Laboratory), **Chris Ward** (Georgia Tech Research Institute), tentative - **Sanja Zlatanovic** (SPAWAR Systems Center Pacific).

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

Manuscript Type: "AVFOP 2017"

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