



Defense + Commercial Sensing



Baltimore Convention Center  
Baltimore, Maryland, United States

**14 - 18 April 2019**

2018 Onsite News

Invitation

Benefits of attending

Conferences

Courses

Exhibition

Rising Researchers

Sponsors

For Authors and Presenters

For Chairs and Committees

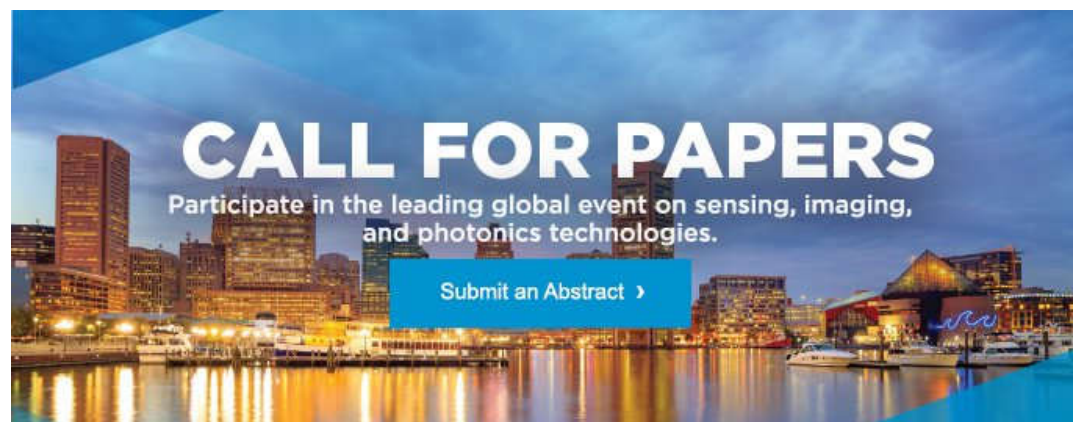
For Exhibitors

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**The leading global sensing, imaging, and photonics technologies event**



**Accepting 2019 abstract submissions**

Present your research on sensors, infrared technology, laser systems, spectral imaging, radar, LIDAR, and more. Come share the latest technical advancements and collaborate with other experts working on materials, components, systems, and analytics for defense and commercial applications in sensing and imaging.

**Abstracts Due**

3 October 2018

**Rising Researcher**

10 October 2018

**Author Notification**

10 December 2018

**Online Call for Papers** >

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**Submission Guidelines** >

**2019 Plenary Speakers**



**Albert "Skip" Rizzo**  
Director, Medical Virtual Reality,  
Institute for Creative Technologies  
Research Professor, Dept. of  
Psychiatry and School of  
Gerontology



**Dr. Philip Perconti**  
Director, US Army Research  
Laboratory (USA)

## Explore the four new tracks



The program includes 45 conferences and highlights the meeting's core technology areas while addressing a wide range of applications.

- **Materials and Devices**

This track includes topics such as IR materials, image sensors, photon counting, energy harvesting, and quantum technologies. The applications include wearables, cybersecurity, information processing, energy storage, and drones.

- **Imaging and Analytics**

This track addresses topics such as spectral imaging, computational image processing, metrology, and 3D imaging. Papers include applications in security and defense, climate monitoring, big data, deep learning, machine vision, target detection, and tracking.

- **Advanced Sensing and Imaging**

This track includes topics such as fiber optic sensors, radar, laser radar, IR technologies and thermal imaging. Applications include security, structural sensing and health monitoring, non-destructive inspection, tracking, and ranging.

- **Next Generation Sensor Systems and Applications**

This track highlights cutting-edge research focused on emerging technologies for specific applications such as autonomous systems, CBRNE, agriculture and food safety, CPS/IoT, and more.

[Learn more >](#)

## 2019 Symposium Chairs



**Ruth Moser**  
Director of the Sensors Directorate,  
Air Force Research Lab. (USA)



**Jay Kumler**  
President, JENOPTIK Optical  
Systems, LLC (USA)

## DCS Technology in the news

### Breakthrough sensor to help people with bipolar disorder monitor lithium levels

Patients living with bipolar disorder and depression will soon be able to use a unique wearable sensor to safely monitor their lithium drug levels. Read more at [phys.org](https://phys.org)

>**SPIE DCS Connection:** visit the 2019 [Smart Biomedical and Physiological Sensor Technology](#) conference  
28 August

### Infrared sensor serves as a new tool for drug discovery

Scientists have found a new method for analysing how active agents affect a specific protein essential for cell survival. Their research could help to quickly develop drugs with fewer side effects. Read more at [phys.org](https://phys.org)

>**SPIE DCS Connection:** visit the 2019 [Infrared Technology and Applications](#) conference  
28 August

## Proceedings of SPIE

SPIE conference papers are published in the [Proceedings of SPIE](#) and available via the SPIE Digital Library, the world's largest collection of optics and photonics research.

The Proceedings are indexed in Web of Science, Scopus, Ei Compendex, Inspec, Google Scholar, Astrophysical Data System (ADS), DeepDyve, ReadCube, CrossRef, and other scholarly indexes, and are widely accessible to leading research organizations, conference attendees, and individual researchers.

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