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Recent advances in cladding mode sensing with optical fiber gratings

Prof. Jacques Albert - *Carleton University, CANADA*

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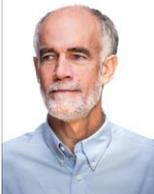
Sala SITI, Corso Castelfidardo, 30/A - 10138 Torino

Tilted fiber Bragg gratings provide three interesting advantages in sensing:

- 1) access to surface waves on the cladding surface;
- 2) a resonant structure with high Q-factor spectral linewidths;
- 3) a built-in very accurate thermometer.

These features have been critical in the development of high performance sensors for physical, chemical, and biochemical signals as well as process monitors for nanoscale coatings of metals and dielectric materials for plasmonic applications.

For further information: info.photonext@polito.it



J. Albert is recognized internationally for his work on FBGs, TFBGs and optical sensors over the last 25 years. He is a Fellow of the Optical Society. He chaired several national and international conferences in photonics and optical fiber sensors and he won a Best reviewer award from the OSA in 2014, as well as serving on the Editorial Board of Optics Express for six years. He will present the Keynote address at the upcoming Conference on Bragg Gratings, Photosensitivity, and Poling, part of the 2018 OSA Advanced Photonics Congress in Zurich. He heads the Advanced Photonic components lab at Carleton University, which includes a fully equipped infrastructure for the design, fabrication and characterization of FBGs and staffed by experienced personnel and graduate students. His Tier I Canada Research Chair was renewed for a third seven-year term starting in January 2018.



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