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Polymer Optical Fibre

Guest Editors:

Prof. Dr. Beatriz Ortega
Institute of Telecommunications and Multimedia Applications, Universitat Politécnica de Valencia, Camino de Vera, s/n, 46022 Valencia, Spain

Dr. Carlos Marques
CICECO-Aveiro Institute of Materials, Physics Department, University of Aveiro, Aveiro, Portugal

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Message from the Guest Editors

Dear Colleagues,

Polymer optical fibers (POF) have been proved during the last years as very attractive fibers due to large sensitivity to external environment, biocompatibility and easy handling amongst other advantages. Short distance telecommunications and sensing have been identified as fields with an increasing number of potential applications.

Local area networks and interconnection based on polymer optical fibers have been demonstrated with successful data rates whereas further work on new materials and components is identified as a promising field for increasing the scope of these fibers. Moreover, sensors based on polymer optical fiber technology have been proposed a long time ago, nonetheless, they are currently under dynamic and fruitful fundamental and applied research with upcoming new applications and developments. In this context, polymer optical fiber technology is a growing research and application area at the intersection of health and general engineering.

Topics include, but not limited, theoretical and experimental original work on the following:

- polymer fibers
- microstructured fibers
- POF sensors
- POF networks
- POF components

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