Call for Papers

A Special Issue of Physical Communication on “Polarization in Wireless Communications”

SCOPE of the Special Issue

Wireless communications exploit the electromagnetic medium, which is intrinsically polarization-sensitive. Much wireless technology, however, has been devised without explicit consideration of polarization. Past decades of wireless technology has exploited the dimensions of time, frequency, space. Polarization is a logical next step in this progression. This special issue focuses on cutting-edge ideas on novel exploitation of polarization for any wireless communication application.
About the Topics of Interest

In particular, the topic of interest includes but is not limited to

• Polarization diversity in transmission and reception
• Polarization in geolocation, navigation, remote sensing, or sensor networks.
• Polarization-sensitive signal processing for wireless communications
• Polarization-sensitive information theory and coding
• Diversely polarized modulation, multiplexing, and demultiplexing
• Polarization and wireless communication capacity
• Polarization in wireless channel modeling
• Diversely polarized MIMO
• Polarization-diverse antenna systems for wireless communications

Submission Format and Guideline

All submitted papers must be clearly written in excellent English and contain only original work, which has not been published by or is currently under review for any other journal or conference. Papers must not exceed 25 pages (one-column, at least 11pt fonts) including figures, tables, and references. A detailed submission guideline is available as “Guide to Authors” at www.elsevier.com/locate/phycom.

All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES). The authors must select as “SI: Polarization in WC” when they reach the “Article Type” step in the submission process. The EES website is located at: http://ees.elsevier.com/phycom/

All papers will be peer-reviewed by at least three independent reviewers. Requests for additional information should be addressed to the guest editors.