



sensors



an Open Access Journal by MDPI

Waveguide Transitions for Millimeter-Wave Antenna Arrays Communications

Guest Editors:

Dr. José Miguel Jiménez Herranz

Research Institute for the Integrated Management of Coastal Zones (IGIC), Polytechnic University of Valencia, 46022 València, Spain

Prof. Dr. Pascal Lorenz

Department of Network and Telecommunication, University of Haute Alsace, 68008 Colmar, France

Dr. Dhananjay Singh

ReSESNE Labs, Department of Electronics Engineering, Hankuk (Korea) University of Foreign Studies (HUFS), Seoul 02450, Republic of Korea

Deadline for manuscript submissions:

closed (20 March 2022)

Message from the Guest Editors

Communications networks are exponentially increasing the volumes of data traffic. Millimeter-wave (mmWave), THz wireless local area, and cellular networks can support very high download speeds. They have become one of the most interesting techniques to be applied in different areas such as positioning systems, communication between devices, and sensing or imaging transmission, among others. The coverage of mmWave networks has been expanded due to the application of large-scale mmWave antenna arrays. Thanks to the short wavelengths, large antenna arrays can be packed into small dimension supports. We can join more antenna elements in mmWave frequencies than in microwaves facilitating the use of multiple-input multiple-output (MIMO) systems. Antenna arrays can be designed to provide a high-gain link from antennas to end devices.

This Special Issue will reflect current research trends and novel approaches related to the issues of Waveguide Transitions designs and propagation for 5G millimeter-wave applications for mmWave antenna arrays.



mdpi.com/si/66202

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)