Special Issue

Wideband RF Front-End Components for Ultra-Wideband (UWB) Applications

Message from the Guest Editor

Ultra-wideband (UWB) systems are attracting attention as ultra-high-speed wireless communication technologies. A major feature of UWB communication is that it uses a very wide frequency band compared to conventional wireless systems. The frequency band of UWB communication is available in the microwave band of 3.1 to 10.6 GHz, and in the quasi-millimeter wave band of 22 to 29 GHz. The UWB system is capable of high accuracy position measurement with an error of a few centimeters as well as large volume data transfer. The system using the impulse radio-type UWB (IR UWB) is expected to be applied to material management and safety management in factories. The major topics of interest for this Special Issue include, but are not limited to:

- Ultra-wideband antennas
- Broadband antennas
- Multiband antennas
- Ultra-wideband communication
- Ultra-wideband radar
- Radar applications
- UWB system

Guest Editor

Prof. Dr. Haruichi Kanaya
Department of Electronics, Kyushu University, Fukuoka 819-0395, Japan

Deadline for manuscript submissions

closed (20 December 2021)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/41102

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

MDPI