



## Development of UWB Antennas and Microwave Components

Guest Editor:

### Dr. Adrian Bekasiewicz

Faculty of Electronics,  
Telecommunications and  
Informatics, Gdansk University of  
Technology, 80-233 Gdansk,  
Poland

Deadline for manuscript  
submissions:

**closed (30 September 2021)**

### Message from the Guest Editor

The objective of this Special Issue is to report novel topologies, design methods, as well as validation schemes of UWB antenna structures and microwave circuits that reach beyond the frontiers of the current state of the art. The topics of interest cover synthesis, design and modeling methods, integration techniques, and optimization algorithms, including but not limited to:

- Antenna arrays
- Automated design methods
- Bandwidth-enhancing methods
- Co-design of UWB components and neighboring systems
- Compact antennas
- Computer-aided design
- MIMO antennas
- Miniaturization of antennas and passive components
- Modeling methods for UWB antennas and microwave components
- Multi-objective optimization
- Reduction of interferences
- Robust design and statistical analysis
- Surrogate-assisted methods
- Topology evolution
- Ultra-wideband amplifiers
- UWB for IoT and sensor networks
- UWB antennas for imaging
- UWB antennas for medical applications





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## 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), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)