

## Special Issue

# Advances in Electrodynamics: New Antenna Topologies and Waveguide Technologies

### Message from the Guest Editor

In recent decades, a special effort has been made in high-frequency technologies, which has facilitated access to the manufacture of structures that years ago were only thinkable in theoretical terms or could only be built in low-frequency ranges. In this issue, we intend to focus on research carried out on new advances in applied electrodynamics, without restrictions of frequency range or applications per se. The main objective is to present new elements for the analysis and synthesis of antennas and radiating and guided mechanisms, as well as their laboratory tests and measurements. Advances in radar, miniaturization of antennas, new numerical methods for analyzing structures, new technologies for manufacturing, such as 3D printing, new limits in receivers' sensitivity, new records in emitted power, links at high frequency, new topologies for beam scanning, and low profile antennas for satellite applications are some of the areas covered by this issue. The relationship with areas such as quantum electrodymanics or light-gravity interaction are also within the scope of this issue, together with all the applications reported.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 September 2022)



## Applied Sciences

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### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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