

Special Issue

Advanced Antenna Array Technologies and Applications

Message from the Guest Editors

Wireless communications are a fundamental component of modern society. Antenna arrays play an important role in this field, as they provide a vast set of advantages such as high directivity and adaptive beamforming to improve the wireless link. Antenna arrays are employed in several applications such as 5G, MIMO, GNSS for autonomous vehicles, wireless power transfer, radar, and satellite, aerospace, and mobile communications. Antenna arrays prove to be essential even for military and safety applications, through, for example, null-pointing operations to mitigate interferences, both accidental and intentional. With the increase of computational power of modern systems, complex algorithms which were unfeasible in the past become real possibilities to improve antenna array performances. This, in turn, can pave the way for sizeable advancements in this technology and its applications, using recent advances in the fields of, for example, artificial intelligence, RF circuits, additive manufacturing, and graphene.

Guest Editors

Dr. Paulo M. Mendes

Dr. Carlos Lima

Dr. Hugo Daniel da Costa Dinis

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

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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.

Editor-in-Chief

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

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