

Special Issue

Challenge of Guaranteed Convergence in Applied Electromagnetics: Recent Progress in the Methods of Analytical Regularization

Message from the Guest Editors

For many reasons, the results provided by commercial software need to be validated ex post. On the other hand, the family of methods collectively called methods of analytical regularization (MAR) completely overcome these problems, allowing the conversion of first-kind weakly singular and various kinds of strongly singular integral equations to Fredholm second-kind integral or matrix equations. As a result, MAR has been attracting growing interest from the electromagnetic community in recent years. This Special Issue is aimed at showing the recent developments of MAR theory and its latest applications. The topics of interest include, but are not limited to:

- Optical and microwave antennas;
- Plasmonic scatterers;
- Patterned graphene;
- Metasurfaces;
- Dielectric resonators and lenses;
- Waveguide circuits;
- Laser modes on threshold.

Guest Editors

Prof. Dr. Mario Lucido

Prof. Dr. Kazuya Kobayashi

Prof. Dr. Francisco Medina

Prof. Dr. Alexander I. Nosich

Prof. Dr. Elena D. Vinogradova

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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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About the Journal

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.

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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