Special Issue

Advanced Sensing Applications in Non-Destructive Testing and Electromagnetic Compatibility

Message from the Guest Editors

State-of-the-art metamaterial-based sensors use artificially designed subwavelength structures which can effectively modulate electromagnetic fields for sensing applications. Surface-enhanced spectroscopy technology based on metamaterials exploits various resonance mechanisms (localized surface plasmon resonance, Mie resonance, bound states in the continuum, Fano resonance), enabling the implementation of high-sensitivity sensors in NDT, especially for distinguishing between different samples. However, major challenges regarding performance, reliability, integration, and sensitivity still need to be addressed.

- electromagnetic compatibility
- non-destructive testing
- metamaterial sensors
- EMI shielding
- radiated emission
- electromagnetic bandgap
- radiated emission
- eddy-current sensing
- inductance-to-digital converter

Guest Editors

Prof. Dr. Nikolaos Kantartzis
School of Electrical and Computer Engineering, Faculty of Technology, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Dr. Dimitrios I. Karatzidis
School of Electrical and Computer Engineering, Faculty of Technology, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

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

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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