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Microwave Tomography: Advancements and Applications

Guest Editors:

Dr. Giovanni Ludeno
Institute for Electromagnetic Sensing of the Environment (IREA), National Research Council of Italy (CNR), Napoli, Italy

Dr. Livia Lantini
School of Computing and Engineering, University of West London, London, UK

Dr. Ilaria Catapano
Institute for Electromagnetic Sensing of the Environment, National Research Council of Italy (IREA CNR), Via Diocleziano 328, 80127 Napoli, Italy

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Message from the Guest Editors

Dear Colleagues,

Microwave tomography (MWT) is a broad research field, wherein the ability of microwaves to penetrate opaque dielectric materials is exploited to perform non-invasive surveys devoted to characterizing the surface and interior of an investigated scenario. Therefore, MWT covers challenges related to the design of sensors/exposures systems and the development of imaging strategies, that can account for complex scenarios and/or be optimized for a certain application. This Special Issue deals with methodological and technological advancements referred to both hardware and software issues, working with signals in the frequency range from some hundred to a few thousand Hertz, and regarding in situ, close, and remote sensing. Specifically, it tackles strategies and technical solutions based on the analysis of microwave–material interactions and their suitable models. Moreover, innovations, possibly exploiting artificial intelligence and designed both for assessed applicative fields, such as subsoil or structure surveys, and innovative ones, i.e., health monitoring, industrial quality control, security, and safety, are welcome.

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Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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