

## Special Issue

# A Journey into Microwave Imaging and Sensing for Biomedical Applications: Recent Trends and Technologies

### Message from the Guest Editors

In recent years, there has been renewed interest in the development of microwave imaging and radar-based systems for biomedical applications and vital sign detection and analysis. Intelligent medical imaging offers significant advantages, including high speed, super-resolution images, and cost-effectiveness. Machine learning (ML) and deep learning (DL) techniques, which integrate big data and high-performance computing, have significantly advanced the study and application of these systems. This Special Issue will be devoted to exploring recently developed medical microwave imaging devices, encompassing machine learning theory, new imaging methods and devices, and signal and image processing techniques. We will highlight applications of microwave imaging, vital sign detection, and multimodal imaging more generally. Potential topics include but are not limited to:

- machine learning
- microwave imaging
- deep learning
- diagnostic imaging
- detection
- hyperthermia
- radar
- vital signs
- inverse problem

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### Guest Editors

Prof. Dr. Helene Roussel  
Prof. Dr. Claire Migliaccio  
Dr. Nadine Joachimowicz

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### Deadline for manuscript submissions

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## Sensors

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### Message from the Editor-in-Chief

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