

Special Issue

Advances in Biomedical Microwave Imaging and Sensing

Message from the Guest Editors

Biomedical microwave imaging and sensing have emerged as promising technologies in the field of healthcare. These techniques have the advantage of being cost-effective, portable, and safe.

The next steps towards the clinical use of biomedical microwave imaging and sensing involve addressing several challenges. Firstly, further advancements in imaging algorithms and machine learning techniques are needed to enhance image quality, improve resolution, and reduce artifacts. Secondly, validation studies and clinical trials are essential to establish the efficacy and reliability of microwave imaging and sensing in real-world healthcare settings. Moreover, the miniaturization and optimization of hardware components, such as antennas and sensors, will contribute to the development of compact and user-friendly devices suitable for clinical use. Finally, regulatory approvals are crucial to ensure widespread adoption and integration into routine clinical practice and into existing medical systems. By addressing these steps, these techniques hold great potential for revolutionizing medical diagnostics and monitoring, leading to improved patient outcomes and personalized healthcare.

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