Special Issue

Radar and Multimodal Sensing for Ambient Assisted Living

Message from the Guest Editors

The Special Issue on "Radar and Multimodal Sensing for Ambient Assisted Living" focuses on the latest advancements in and innovative applications of radar technology, radar information and multimodal sensing in monitoring human activities in real-world scenarios such as smart homes and ambient assisted living environments, such as the use of micro-Doppler analysis to monitor the movements of humans and animals, providing detailed information on their activities and behaviors, as well as the use of radar data to facilitate advanced activity recognition, enabling precise identification of various actions and states. By combining data from various radar domains, distributed radar systems, and integrating radar with multimodal sensing and information fusion, deep learning-based techniques can be employed to improve classification and regression tasks across different sensing modalities, ensuring the reliable performances, robustness and accuracy of sensing systems.

Keywords:

- radar sensing
- activity recognition
- vital signs monitoring
- radar data processing
- ambient assisted living
- multimodal sensing
- information fusion
- deep learning

Guest Editors

Dr. Haobo Li

School of Science and Engineering, University of Dundee, Dundee DD1 4HN , UK

Dr. Ilya Starshynov

Advanced Research Centre, University of Glasgow, Glasgow G11 6EW, UK

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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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