Special Issue

Short-Range Radar-Based Techniques for Remote Monitoring and Medical Related Applications

Message from the Guest Editors

Nowadays radars are increasingly used in short-range scenarios. Emerging applications involve distance measurement (e.g., in driver-assistance systems, level measurements in tanks, engineered white canes for visually impaired people) and displacement detection (e.g., for remote monitoring of cardio-respiratory activity, building vibrations, and development of human–computer interfaces).

Radars are also used to obtain images of scenarios through walls (TWRI) and under rubble, or to track multiple people and detect fall events of elderly subjects in an indoor environment. Finally, radar imaging techniques for breast cancer and haemorrhagic brain stroke diagnosis have seen significant progress. For all these applications, various radar topologies have been proposed, including continuous-wave (CW) Doppler radars, frequency-modulated continuous-wave (FMCW) radars, ultra-wideband (UWB) pulsed radars, and UWB-modulated (M-UWB) pulse radars. In addition to conventional architectures, subharmonic, harmonic, and intermodulation radars have also been investigated.

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