

Special Issue

Electromagnetic Sensors for Remote Patient Monitoring

Message from the Guest Editors

The continuous and rapid growth of the combined senior and geriatric population has resulted in an increase of age-related chronic diseases. This situation results in a shortage of healthcare personnel, together with the ever-increasing demands for healthcare services. Coupled with the expected rise in healthcare cost and since only a minority could afford private home-care personnel, the need for technologies enabling remote patient monitoring is certainly on the rise. In this respect, in the last two decades, radar and Wi-Fi technologies have been significantly attracting the attention of many researchers worldwide. The capability of measuring movements, speed and distance of multiple subjects, even through clothes, blankets, and many barriers (e.g. glass, doors, walls, etc.), in various ambient light and weather conditions, allows the use of these technologies for vital signs monitoring, fall detection and human tracking. Moreover, the monitoring can be performed continuously while preserving the privacy of the subjects and without adverse health effects. This opens a multitude of healthcare and ambient assisted living applications.

Guest Editors

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