Special Issue

Intelligent Measurements and Interpretation of Wireless Systems for Continuous Vital Sign Monitoring

Message from the Guest Editor

Monitoring vital signs using continuous and wireless sensors is an area that is gaining traction, and reports indicate that such sensors and systems possess a high sensitivity for detecting important deviations in vital signs. This includes hospitalized patients that are not in ICU or other high-dependency units, and the monitoring of vital signs may continue after hospital discharge. Analyses of how to interpret the board data streams of vital signs are therefore key to the implementation of these new technologies. Furthermore, modalities other than the traditional vital signs (blood pressure, oxygen saturation, etc.) such as blood glucose, lactate, etc., may provide even better continuous predictions of upcoming complications. This Special Issue calls for research articles covering, but not limited to, clinical investigations of patient data in or out of hospital with the aim of describing vital sign deviations in specific settings; describing algorithms for vital sign interpretation; validating new vital sign sensors; validating the clinical impact of using continuous vital sign sensors; and addressing the existing literature on the subject.

Guest Editor

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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.

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