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Sensing and Signal Processing Technologies for Outpatient Monitoring and Rehabilitation

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Message from the Guest Editors

The ageing society and the growing prevalence of population diseases will stretch hospital capacity to the limits, and the increased use of outpatient solutions seems inevitable. Outpatient solutions have several medical benefits, such as faster rehabilitation and improved quality-of-life for patients, but they also pose technical challenges in terms of disease monitoring and rehabilitation progression as well as the identification of situations that require medical intervention. Most of the conceivable technologies rely on sensors and signal processing to some extent, and the associated science is the focus of this Special Issue.

Topics include, but are not limited to:

- Sensing technologies for disease and rehabilitation monitoring;
- Wearable and ubiquitous sensing technologies;
- Model-based technologies for the estimation of disease and rehabilitation progress from sensor signals;
- Infrastructure solutions for the management of outpatient populations;
- Sensing technologies for rehabilitation and independence-improving technology such as cobots and exoskeletons.

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Special Issue



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Message from the Editor-in-Chief

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