Special Issue

Non-invasive Sensing for Glucose Monitoring

Message from the Guest Editor

Diabetes is one of the most prevalent diseases. non-invasive sensing schemes, which are more comfortable and have no risk of infection. Furthermore, sensing schemes that allow for continous glucose monitoring (CGM) and are compact enough to be integrated into wearables, like smartwatches or smart plasters, are in high demand, as they will overall contribute to a higher Quality of Living (QoL).

Literature is full of trials that explore new phenomena. However a lot of new approaches fail in terms of accuracy and suffer from strong cross influences so that there was no chance for medical approval. Nevertheless the ever growing market of wearables and advancements in microelectronics have created large expectations for CGM wearables that integrate into daily life activities and are not stigmatizing.

This Special Issue calls for contributions on recent advances in non-invasive glucose sensing schemes and sensor implementations. A detailed discussion on underlying phenomena, sensing principles, cross influences, sensitivity, tolerances and suitability for CGM is encouraged. Submissions should take into account physiologically relevant concentration levels.

Guest Editor

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Deadline for manuscript submissions

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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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