Special Issue

Hacking Consumer Electronics for Biosensing

Message from the Guest Editors

Hacking consumer electronics for biosensing is an unorthodox approach, which might be more complicated than using standard research-grade parts. However, leveraging the billions of USD invested, mass-produced, high-quality, and low-cost components in consumer electronics leads to many benefits, such as higher performance, shorter time-to-market, and lower production cost. This approach has resulted in high value-adding technologies/patents and has given birth to startup companies easily. For example, consumer electronics hacking-based biosensing research uses a Blu-ray drive for disease diagnostics, became a startup (BluSense Diagnostics), and is nominated for the 2021 European Inventor Award.

Furthermore, the consumer electronics hacking-based publication generally attracts more attention and citation than a regular research paper due to the low cost and because off-the-shelf consumer electronics are easy to access from well-funded for resource researchers worldwide.

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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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