

Special Issue

Neurological Wearables for Clinical Diagnostics and Therapeutic Interventions

Message from the Guest Editor

Advances in low-cost wearable sensor technologies have enabled a host of novel applications for diagnostics and therapeutics, which is the focus of this Special Issue. The portable nature of such technologies has the major advantage of permitting these assessments and treatments to be performed remotely, outside of the laboratory or clinical settings. In-person access to a neurologist is limited in remote communities. Here, we focus on a subset of technologies within the context of remote assessment and treatment of neurological injury and disease. These so-called 'neurological wearables' hold the promise of enabling various new 'telehealth' or 'virtual rehabilitation' alternatives to standard neurological testing in the clinic. These wearables often wirelessly pair to a user-friendly smart device app interface for administering testing or a therapeutic session and capturing data obtained from the sensor(s). Moving standard neurological testing and treatment outside of the clinic is poised to drastically improve the cost/time efficiency and quality of healthcare while empowering users to participate in their patient journey.

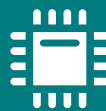
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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. 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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