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Advances in Neural Sensing Devices for Neurological Surgery, Neurorehabilitation, and Network Neuroscience

Guest Editor:

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Deadline for manuscript submissions:
closed (20 July 2024)

Message from the Guest Editor

Over the past decade, the fields of neurological surgery, neurorehabilitation, and network neuroscience have seen huge advances in the utilization of both implanted and non-implanted devices that can sense neurological activity. These include, but are not limited to, closed-loop deep brain stimulators for movement and psychiatric disorders, responsive neurostimulators for epilepsy, closed-loop neural interfaces designed to bypass spinal cord injury, and EEG-based brain–computer interfaces designed to rehabilitate stroke patients. This Special Issue seeks manuscripts that explore these advances in and future directions of neurological sensing devices. Primary research in both animal models and human participants will be considered, as will reviews and commentaries from established experts in the field.

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Message from the Editor-in-Chief

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