Special Issue

Implantable Neural Sensors for the Brain Machine Interface

Message from the Guest Editor

Over the last few decades, there has been significant progress made towards our understanding of the mechanisms of brain functions and their role in neurological diseases. Among various neuro-technological tools contributing to this progress, brain–machine interfaces (BMI) with implantable neural sensors have played a key role by enabling the detection of neural activity at unprecedented spatio-temporal resolution from animals. Moreover, recent human clinical trials have extended the potential application of implantable neural sensors to the territory of human health. Through this Special Issue, we would like to establish a forum to discuss the recent developments, remaining challenges, and future directions of implantable neural sensors for brain–machine interfaces. We invite research papers, reviews and shorter communications that focus on the system design, materials, device fabrication, packaging and characterization of implantable neural sensors to contribute to this Special Issue. Topics of particular interest include, but are not limited to:

Guest Editor

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Editor-in-Chief

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