Special Issue

Recent Advances in Implantable Neural Microsystems

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 (BMIs) with implantable neural microsystems have played a key role by enabling the stimulation and detection of neural activity at unprecedented spatio-temporal resolution from animals. Moreover, recent human clinical trials have extended the potential applications of implantable neural microsystems 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 microsystems 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 microsystems to contribute to this Special Issue.

Guest Editor

Prof. Dr. Yoon-Kyu Song

Department of Applied Bioengineering, Graduate School of Convergence Science and Technology, Seoul National University, Seoul 08826, Republic of Korea

Deadline for manuscript submissions

closed (31 May 2022)

Micromachines

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed

mdpi.com/si/84577

Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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