Special Issue

Bioelectronics and Its Limitless Possibilities

Message from the Guest Editor

Bioelectronics has been developed for numerous applications, including wearable and implantable biomedical devices for biomedicine and healthcare. Through the design and implementation of advanced devices and materials that can interface directly with biological tissues, bioelectronics is pushing beyond the boundaries of traditional medicine and biotechnology. The possibilities for future bioelectronics are limitless. From wireless sensors that continuously monitor and manage internal and external diseases, to neural interfaces that restore lost sensory functions or augment human cognition, bioelectronics holds the promise of more personalized, precise, and proactive healthcare. As the technology advances—propelled by breakthroughs in nanotechnology, AI-driven data analysis, wireless communication, and new biocompatible materials—these innovations will not only unlock new research topics but also significantly advance interdisciplinary collaboration between engineers and scientists from different areas.

Guest Editor

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