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Advances in Bio-Inspired Skin-Like Sensor Technologies

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Deadline for manuscript submissions:

closed (31 January 2023)

Message from the Guest Editors

An artificial sense of touch is key to enhancing the capabilities of robotic platforms, and this area of study is continuously growing and expanding. The artificial sense of touch allows the performance of highly skilled tasks and is largely employed in object exploration, manipulation, and interfaces such as touch pads. In recent decades, advances in materials and sensing technology have allowed researchers to develop a number of advanced tactile technologies despite a multitude of difficulties. These tactile systems, mounted on the hands, fingers, torsos, and bodies of a variety of robotics systems, offer effective bio-inspired solutions for the advancement of skilled tasks such as human–robot interaction and autonomous robot exploration.

This Special Issue of *Sensors* focuses on those solutions, techniques, and technologies that are tackling artificial tactile sensing. Related application-specific solutions to provide spatial awareness to robotic platforms are also within the scope of this Special Issue.

- tactile sensing
- artificial skin systems
- spatial awareness
- tactile pads
- processing strategies for tactile sensors



mdpi.com/si/90259

Special Issue



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Message from the Editor-in-Chief

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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Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

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