



Flexible Tactile Sensor Array: Trends and Applications

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Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Research in flexible tactile sensors has grown due to demand in fields like robotics, wearables, and IoT. Complex tasks like object shape identification, texture recognition, and grasp stability require advanced manufacturing and materials for ensuring high-resolution, adaptability and flexibility. Furthermore, the integration of multimodal and multifunctional sensing capabilities has become another focal point, aiming to enhance the overall efficiency and versatility of these sensors.

Despite the remarkable progress achieved in the domain of flexible tactile sensor arrays, their practical incorporation into commercial applications remains somewhat limited, particularly when compared to other well-established sensing modalities. Challenges remain in sensing performance, robust hardware, sustainability, and data processing. Flexible tactile sensor arrays are in their early stages, facing hurdles in practical applications and innovation.

The Special Issue, Flexible Tactile Sensor Array: Trends and Applications, aims to showcase the latest research and breakthroughs in flexible tactile sensors and highlight their practical applications in various fields.





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Message from the Editor-in-Chief

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