Topical Collection

Tactile Sensors, Sensing and Systems

Message from the Collection Editor

Tactile sensing is built upon mechanical sensors distributed over a given surface (e.g. robotic hand/arm, outer cover of an apparatus or a consumer device) on which physical/mechanical contact/interaction may occur. The sensors upon a mechanical interaction perceive the event and acquire data on the contact such as temperature, vibration, pressure, shear and normal forces. Raw sensed data are then processed to extract higher-level information (e.g. surface texture patterns and roughness, softness/hardness, object contact material) which is subsequently conveyed to the control/supervising system. The acquisition and processing operations are usually implemented in real time. Tactile arrays ought to be mechanically flexible (i.e., conformable to the surface they are mounted on) and sometimes stretchable. The aim of this Topical Collection is to foster submissions on research and achievements in the broad field of tactile sensors and sensing e.g. from materials up to systems and applications. We invite original contributions, so that current research trends can be presented in this collection.

Collection Editor

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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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