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In the future, this technology could be used with biomedical ... temperature and tactile sensor arrays,

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will enable autonomous and versatile smart systems with a multitude of sensing and actuation ...

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Researchers have created an artificial tactile sensory system that imitates how humans recognise objects via the sense of touch.

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Specifically, he says, "they could be used to measure pressure in biofluid or in other biomedical sensing applications. You could use them to measure nano- or piconewton forces. In micromechanical ...

Nanosprings Could Lead to Biomedical Sensing Applications

Advanced Materials recently published the findings of Technion researchers who created conductors relevant to solar energy generation, biomedical engineering, and more using by-products of the food ...

Conductive biopolymers using recycled food industry byproducts

The world's first flexible artificial tactile nerve came from a joint effort ... can be used in artificial limbs to achieve a level of sensing compatible with the human nervous system.

Forging a perfect combination

Both of these technologies from MIT's Computer Science and Artificial Intelligence Laboratory (CSAIL ... Multimodal fabric-based tactile sensing skin prototype

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covering a 3D printed cylinder. (Source: ...

~~Two Approaches to Robotic Skin Materials~~

MIT CSAIL developed a tactical sensing carpet that estimates 3D human poses without the use of cameras, and could improve health monitoring and smart homes.

~~Intelligent carpet gives insight into human poses~~

To solve this issue, researchers at the National University of Singapore (NUS) have created a complex artificial ... sensing allows robots to perceive objects based on their physical properties, e.g., ...

~~Artificial Brain Gives Robots Unprecedented Sensing Capabilities~~

Using a \$7.5 million, five-year grant from the U.S. Department of Defense, a multi-university team that includes Johns Hopkins engineers is tackling one of today's most complex and important ...

~~Safety first: Project aims to make AI-based~~

~~autonomous systems more reliable and secure~~

Maoz, Iftach Shlomy, Shay Divald, and Dr. Yael Leichtmann-Bardoogo from the Department of Biomedical Engineering ... in treating people who have lost tactile sensation in one organ or another ...

~~Restoring touch in nerves damaged by injury~~

At this week's Conference on Computer Vision and Pattern Recognition, a team from MIT's Computer Science and Artificial Intelligence ... provide the kind of 'tactile sensing' that humans enjoy ...

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'Magic' carpet from MIT can tell what you're doing on it

Researchers at MIT's Computer Science and Artificial Intelligence Laboratory ... pose estimation using pressure maps recorded by a tactile-sensing carpet. "We build a low-cost, high-density ...

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