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Beyond IoT - Ubiquitous Sensing and Human Experience

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Johannes Kepler University Linz
Science Park 3, HS 19

Abstract

This talk will overview the broad theme of interfacing humans to the ubiquitous electronic "nervous system" that sensor networks will soon extend across things, places, and people, going well beyond the 'Internet of Things,' and in different ways challenging the notion of physical presence. I'll illustrate this mainly through two avenues of research - one looking at a new kind of digital "omniscience" (e.g., different kinds of browsers for sensor network data & agile frameworks for sensor representation) and the other looking at buildings & tools as "prosthetic" extensions of humans (e.g., making HVAC and lighting systems an extension of your natural activity and sense of comfort, or smart tools as human-robot cooperation in the hand), drawing from many projects that are running in my group at the MIT Media Lab.

Short Bio

Joe Paradiso is the Alexander W. Dreyfoos (1954) Professor in Media Arts and Sciences at the MIT Media Laboratory, where he directs the Responsive Environments group, which explores how sensor networks augment and mediate human experience, interaction and perception. He received his PhD in Physics from MIT in 1981 and a BSEE from Tufts University in 1977. After two years developing precision drift chambers at the Lab for High Energy Physics at ETH in Zurich, he joined the Draper Laboratory in 1984, where his research encompassed spacecraft control systems, image processing algorithms, underwater sonar, and precision alignment sensors for large high-energy physics detectors. He joined the Media Lab in 1994, where his current research interests include embedded sensing systems and sensor networks, wearable and body sensor networks, energy harvesting and power management for embedded sensors, ubiquitous and pervasive computing, localization systems, passive sensor architectures, human-computer interfaces, computer/electronic music, & interactive media.

