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Editorial for the Topics of Micro Sensors for Communications and Wireless Sensor Networks

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Editorial

Topic areas: Micro sensors for communication and wireless sensor networks

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Our scope covers a wide range of engineering and technological topics in the area of micro sensors such as micro-electromechanical (MEMS) sensors and 3-Dimensional (3D) Printed sensors for communications and sensor networks. MEMS and 3D-printed micro sensors for communications include accelerometers, magnetometers, gyroscopes, microphones and pressure sensors. These sensors have been integrated in the last few years in portable devices because of their low cost, small size, low power consumption and high performance. Wireless sensor network represents a major trend in the past few years. Building sensors have been made due to recent significant advances in technology in small-scale electrical and optical devices s. Wireless sensor networks also can help create the smart cities of the future. Smart cities will be connected together by thousands of smart electronic devices containing sensors that communicate with each other and with more powerful fixed network nodes that will send any data collected back to central servers. The critical component for these processes is low-cost wireless sensing modules. In particular, 3D Printing technology enables us to delivery such low-cost wireless micro sensor modules. Wireless ad-hoc sensor network is composed of a number of small, low-cost, low-power, and nodes. Each sensor node is functioning for data processing with sensing and measures physical parameters such as sound, pressure, temperature, and humidity. Wireless sensor networks have various applications like habitat monitoring, building monitoring, health monitoring, military surveillance and target tracking. Data aggregation approaches based on the routing protocols, the algorithm in the wireless sensor network.

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