

## Autonomous Sensor Networks Collective Sensing Strategies For Analytical Purposes

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### **Autonomous sensor networks : collective sensing strategies ...**

Collective sensing is the collaboration between multiple networked sensor devices in sharing their readings. Through collective sensing, sensor

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network applications are able to provide coverage, reliability, target tracking, and continuous monitoring.

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The current paper proposes a framework, where a mobile sensor network is used to generate way-points for an autonomous robot based on the sensed regions of interest, which are exploited by sampling-based motion planning (e.g., rapidly-exploring random tree (RRT)) to generate feasible trajectories for the robot; a preliminary version of this work has been presented earlier as a conference paper.

### **Networks Collective Intelligence of Distributed Sensor ...**

Sensor deployment is an important aspect of network architecture for Wireless Sensor Networks (WSNs). Although many solutions to mobile sensors deployment have been proposed, controlling mobile sensors with directional sensing ability towards optimal coverage remains to be an open problem.

### **Autonomous deployment of wireless sensor networks for ...**

Sensor networks consist of spatially distributed devices communicating through wireless radio and cooperatively sensing physical or environmental conditions. They provide a high degree of visibility into the environmental physical processes.

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sensor networks for optimal data collection. The development is strongly motivated by the application to adaptive ocean sampling for an autonomous ocean observing and prediction system. A performance metric, used to derive optimal paths for the network of mobile sensors, defines the optimal data set as one which minimizes error in a

### **Collective Motion, Sensor Networks and Ocean Sampling**

Autonomous UWB Sensor Networks) was to develop and demonstrate new principles for localization, navigation and object recognition in distributed sensor networks based on UWB radio technology.

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Collective Motion, Sensor Networks and Ocean Sampling, Proceedings of the IEEE, 2007 Coordinated Control of an Underwater Glider Fleet in an Adaptive Ocean Sampling Field Experiment in Monterey Bay, Journal of Field Robotics, 2010 Autonomous Ocean Sampling Network II (AOSN-II) -- ONR

**Naomi Leonard - Princeton University**

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NIMS integrates distributed, embedded sensing and computing systems with infrastructure-supported mobility to enable direct uncertainty characterization, autonomous adjustment of spatiotemporal sampling rate, and active sensor fusion.

### **Networked Infomechanical Systems (NIMS): Next Generation ...**

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Collective Intelligence of Distributed Sensor Networks ... improves the life of such autonomous sensing networks, it limits the network performance and capacity. For example, a search and rescue operation in an urban scenario in an apartment complex may require sequential collaboration

### **Path Planning in GPS-denied Environments via Collective ...**

Our research centers on developing engineering solutions for generating desired collective network behavior from multiple interacting individuals. The research has two aspects: (1) on the engineering side, to build effective and decentralized cooperation principles that enable a group of agents (e.g., sensors, robotics) to fulfill cooperative tasks autonomously; (2) on the biological side, to unravel the mechanism of how biological systems (e.g., multi cellular organisms, social insects ...

### **Research » Network Systems and Control Group**

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