# UCLA

**Posters** 

#### Title

Networked Informechanical Systems

#### Permalink

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S Center for Embedded Networked Sensing



- Diversity in sensor node location, orientation, and sensor type.
- Enables distributed mapping of sensing uncertainty.
- Enables distributed calibration of sensing channel
- Coordinated Mobility
  - Physical transport of nodes and modification of infrastructure.
  - Enables proactive methods for reducing sensing uncertainty through optimized diversity and sampling.
  - Enables reactive methods that bring optimized sensing resources to bear.
- NIMS Tools
  - NIMS System emulation
  - NIMS System Operation Authoring

- Fundamental studies of ecosystems
  Focus on meteorology, phenology, carbon budget, global change
- indicators
- Sensing, imaging, and spectroscopy.
- Sampling of atmosphere, water.
- Public Health Environment
   Constantly vigilant monitoring and distributed detection of pathogens
  - Focus on coastal wetlands and urban water resources



- Undergraduate Research Programs
  - Multidisciplinary undergraduate research teams
- Grade 7-12 Education Programs
  - Engage student and teacher communities in science and engineering
  - Real-time, remote Web access to active, controllable NIMS systems



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