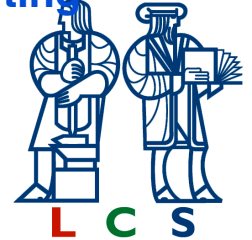


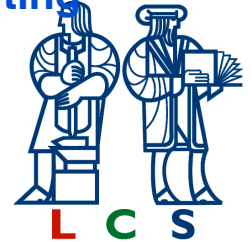
Project Overview

- Long-term goal: Context-aware, mobile pervasive computing systems
- Cricket: Indoor location system based on RF and ultrasound
 - Scalable, autonomous, deployable, facilitates privacy
- Intentional Naming System: Resource discovery



Progress Through December 2002

- Progress on auto-configuration algorithm
 - Decentralized algo. with local node behavior to yield global configuration
 - Uses ball-and-springs model inspired by physics
- Cricket v2 design: will send to fab in two months
- Porting general-purpose sensor software platform (TinyOS) to Cricket



Research Plan for the Next Six Months

- Prove properties and conduct simulations of autoconf algorithms
 - Start implementation
- Monitoring and control applications for large-scale sensor information processing: Investigate energy-efficient routing
- Complete TinyOS port to Cricket