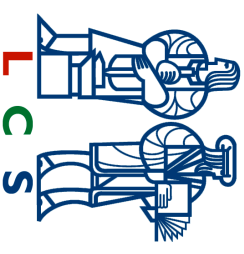


## MIT2000-10: ORNET: A Network for the Operating Room of the Future

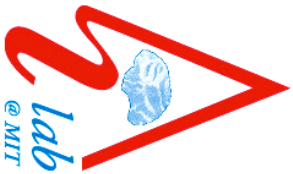
John Guttag and Hari Balakrishnan



## Project Overview

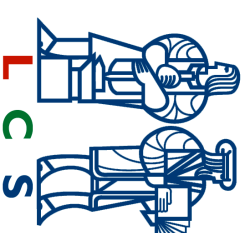


- Research areas
  - Communications architectures
  - Networks of devices
  - Remote monitoring
  - Medical signal processing
- Specific goals
  - Construct a multi-tiered medical sensor network
  - Demonstrate useful applications of sensor fusion
  - Assure properties related to safety criticality



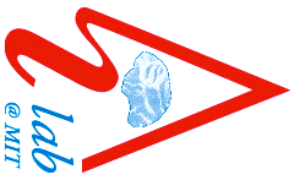
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## Progress Through June 2002

- Developed EEG analysis algorithms
  - Joint work with Children's Hospital
- Initiated analysis of phonocardiograms
  - Joint work with Massachusetts General Hospital
- Built wireless stethoscope/ECG
- Improved monitoring infrastructure
- Started work on alarm management

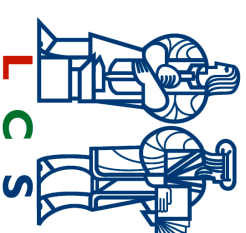


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## Research Plan for the Next Six Months



- Future NTT funding not anticipated