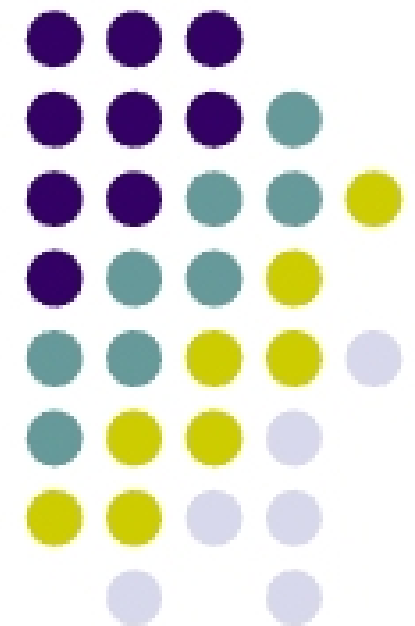


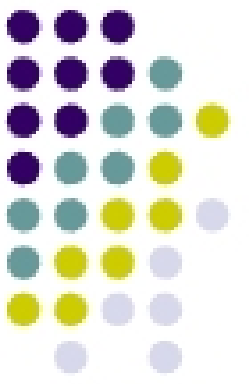
Multi-Robot Coordination Using a Market-based Approach

Gabe Reinstein and Austin Wang

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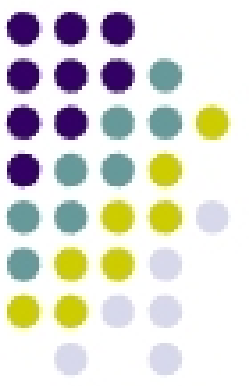
November 6, 2002





Outline

- **Why multiple robots?**
- Design requirements
- Other approaches
- The market-based approach
- Example: Multi-robot exploration



Source Papers

- Dias, M. B. and Stentz, A. 2001. A Market Approach to Multirobot Coordination. Technical Report, CMU-RI-TR-01-26, Robotics Institute, Carnegie Mellon University.
 - Explains idea of market-based approach
- Zlot, R. et al. 2002. Multi-Robot Exploration Controlled by a Market Economy. IEEE.
 - Describes a particular implementation of this idea: mapping and exploration with multiple robots