Session 4: Middleware & Mobility

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Self-healing in the real world
- May not be able to engineer system from scratch with adaptation in mind
- Emerging standards for component integration may help/hinder adaptation
- New kinds of system requirements may challenge existing assumptions/techniques

In this session
- Building on top of standard middleware
  » CORBA, Jini, J2EE
- Need to support mobility, particularly in resource constrained situations
The Papers

- Reflection, Self-awareness and Self-Healing in Open-ORB
  - *What do we want from commercial middleware?*

- Understanding Self-healing in Service-Discovery Systems
  - *How can we empirically validate self-healing strategies and infrastructure?*

- Correct Deployment and Adaptation of Applications on Heterogeneous (Mobile) Devices
  - *How/when to reason about adaptation, particularly for qualities such as performance, resource usage, etc?*