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# Session 4: Middleware & Mobility

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# Session Theme

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

# The Papers

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- u Reflection, Self-awareness and Self-Healing in Open-ORB
  - *What do we want from commercial middleware?*
- u Understanding Self-healing in Service-Discovery Systems
  - *How can we empirically validate self-healing strategies and infrastructure?*
- u 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?*