This section includes the second batch of six papers that will be presented as Works in Progress papers at the ACM/IFIP/USENIX International Middleware Conference (Middleware 2003) (http://middleware2003.inf.puc-rio.br). These papers, selected by the review committee from a large selection of excellent submissions, are short summaries intended to describe ongoing work and interim results. Please contact the authors for more detailed descriptions of the work described.

From the June issue:

"A Distributed Approach for QoS Service Multicast with Geometric Location Awareness" presents a technique to deliver data through a service tree (service multicast) as opposed to using multiple individual service paths.

"Causal Errors in Distributed Systems" presents an analysis of the pattern of causal errors in distributed systems and shows that the number of failed trades due to causal errors has minimal impact on the system.

"Decentralized Coordination of Distributed Interdependent Services" presents a middleware system that supports highly mobile and collaborative applications involving several users with diverse mobile
and stationary hardware.

"Middleware Architecture for Federated Control Systems" presents a software architecture to support autonomous sensing, actuating, computing, and communication entities that cooperate to provide a global behavior.

"Reducing CORBA Call Latency by Caching and Prefetching" presents a transparent middleware mechanism for reducing method call latency by grouping method calls together and caching results.

"Knowledge-based Autonomous Agents for Pervasive Computing Using AgentLight" describes a multiagent system building framework targeting handheld and embedded computational devices, and supports applications built using as low as 128Kb of RAM.

**From the May issue:**

"Programming Ubiquitous and Mobile Computing Applications with the TOTA Middleware" presents a middleware system that uses distributed tuples for supporting decoupled and adaptive interactions within context-aware activities.

"Adaptive Middleware for Distributed Sensor Environments" presents a middleware system for energy aware information collection in sensor networks, exploiting trade-offs between resource consumption and application quality.

"Pronto: MobileGateway with Publish-Subscribe Paradigm over Wireless Network" presents a middleware system for message-oriented mobile applications, addressing issues such as data optimization and disconnected operation.