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- Mobile and Wireless Ad Hoc Networks
- Sensor Networks
- Wireless Local and Personal Area Networks
- Home Networks
- Ad Hoc Networks of Autonomous Intelligent Systems
- Novel Architectures for Ad Hoc and Sensor Networks
- Self-organizing Network Architectures and Protocols
- Transport Layer Protocols
- Routing protocols (unicast, multicast, geocast, etc.)
- Media Access Control Techniques
- Error Control Schemes
- Power-Aware, Low-Power and Energy-Efficient Designs
- Synchronization and Scheduling Issues
- Mobility Management
- Mobility-Tolerant Communication Protocols
- Location Tracking and Location-based Services
- Resource and Information Management
- Security and Fault-Tolerance
- Hardware and Software Platforms, Systems, and Testbeds
- Experimental and Prototype Results
- Quality-of-Service Issues
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- Performance Analysis and Simulation of Protocols

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Specific areas of interest include, but are not limited to:

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