

Wireless networks, distributed systems



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- Wireless sensor networks
 - lightweight middleware integrating surrounding context
 - energy saving through temporal and spatial sampling optimization
 - lightweight XML parser for heterogeneous sensors (IoT)
 - routing optimization and service discovery in heterogeneous networks
- Resilient and efficient delivery over Message-Oriented Middleware
 - IoT middleware based on Message Oriented Middleware
- Adaptive service provisioning for emergency communications
 - DTN demonstrator built using phones and laptops providing SMS, multimedia messaging and walkie-talkie communication
 - DTN routing optimization to preserve battery life in emergencies
- Efficient radio access in a heterogeneous wireless network environment
- Providing QoS in ad-hoc networks

