



January 4-7, 2011, The Grand Hyatt Kauai Resort & Spa, Koloa, Kauai, Hawaii.

Track: Software Technology

Minitrack: Wireless Ad-Hoc and Sensor Networks

This minitrack is focused on the issues that arise in designing wireless ad-hoc networks and wireless sensor networks, and on the applications of wireless ad-hoc networks to solving real-world challenges and connecting embedded systems.

Technical issues include scalability, networking issues at every layer including MAC, network, application, or cross-layer, dealing with node motion, possibly unknown, uncertain, or changing location, and the possible unreliability or compromise of individual nodes. External constraints may include limited bandwidth for communication and limited energy, and the challenges of distributed synchronization among possibly many transmitters. Theoretical algorithms and practical deployment and concerns for cost and configuration are all of interest, as are new applications enabled by the use of wireless ad-hoc networks and the social and environmental benefits and drawbacks of using these networks.

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Edoardo Biagioni has been associate professor of information and computer sciences at the University of Hawaii at Manoa since 1997. His research interests include networking, especially wireless ad-hoc networks and wireless sensor networks, embedded systems, and information assurance..

John McEachen is professor in the Department of Electrical and Computer Engineering of the Naval Postgraduate School, Monterey, California. His research interests include managing routing in computer networks, wireless networking protocols, patternless intrusion detection, and steganographic communications.

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