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3RD INTL. SYMPOSIUM ON MODELING AND OPTIMIZATION IN MOBILE, AD HOC, AND WIRELESS NETWORKS (WIOPT'05)

RIVA DEL GARDA, TRENTO, ITALY, APRIL 3-7, 2005

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SCOPE OF THE SYMPOSIUM

The complexity of mobile, ad hoc, and wireless networks requires thoroughly founded models capturing their essential characteristics and new optimization techniques building upon such models. Insights into both the theoretical aspects of these problems as well as practical methods and tools are necessary. This symposium, building upon the two successful WiOpt workshops, intends to bring together researchers and practitioners working on optimization issues from different perspectives, including performance analysis, mobile networking, wireless communication, and optimization theory.

Contributions to this conference should show new modeling and optimization techniques suitable for mobile/wireless networks or innovative applications of these techniques to improve network operation. Topics of interest include, but are not limited to:

- Modeling techniques and tools for mobile/wireless networks
- Performance characterisation & optimisation of mobile/wireless networks and systems
- Mobile network optimisation: Applications, algorithms, and tools
- Protocol design for optimal mobile network utilisation
- Models and optimization approaches for energy efficiency, QoS, bandwidth economy and other aspects of mobile/wireless networks
- Models and optimization techniques for non-standard network paradigms like sensor, vehicular, body area networks
- Security and co-operation models for mobile networks
- Pricing and incentives in mobile and ad-hoc networks

Papers should be submitted as extended abstracts of up to 8 pages and published by IEEE Press (see webpage for details). Selected papers from WiOpt 2005 will appear in a special issue of ACM/Kluwer Monet.

ADJUNCT WORKSHOPS

Several one-day workshops will accompany the main WiOpt Symposium on April 3rd and 7th:

- **WINMEE 2005** — Measurement in Wireless Networks, Chairs: L. Krishnamurthy (Intel), D. Papagiannaki (Intel Research Cambridge)
- **RAWNET 2005** — Resource Allocation in Wireless Networks, Chairs: A. Proutiere (France Telecom R&D), S. Borst (Bell Labs.)
- **SPASWIN 2005** — Stochastic Geometry for Wireless Networks, Chairs: F. Baccelli (INRIA-ENS), B. Blaszczyszyn (INRIA-ENS)
- **NETCOD 2005** — Network Coding, Theory, and Applications, Chairs: R. W. Yeung (The Chinese University of Hong Kong), P. Chou (Microsoft Research)

SPONSORSHIP

WiOpt'05 is sponsored by INRIA, CREATE-NET, ICST, Intel, Siemens mobile, and the euroNGI & E-NEXT Networks of Excellence; it is technically co-sponsored by the IEEE Information Theory Society and organized in cooperation with ACM and IFIP, WG 6.3.

IMPORTANT DATES

Extended deadline: Oct. 10, 2004
Notification of acceptance: Dec. 5, 2004
Camera-ready copy: Jan. 14, 2005

For more details,
please visit
<http://www.wiopt.org>