



The Fourth International Conference on Heterogeneous Networking
for Quality, Reliability, Security and Robustness

QShine 2007

Vancouver, British Columbia, Canada, August 14–17, 2007

<http://www.qshine.org/>

Sponsored by Create-Net and ICST

In-Cooperation with ACM SIGMM, SIGMOBILE, and SIGSIM

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Call for Papers

Overview – The Fourth International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2007) will focus on the research challenges associated with the design and implementation of large-scale wired and wireless networks and distributed systems. Following the tradition of previous QShine meetings, QShine 2007 will feature prominent invited speakers as well as papers by top researchers in the field.

Scope – The QShine program committee solicits original papers describing both experimental and theoretical results that address a wide spectrum of fundamental issues associated with the design and implementation of large scale heterogeneous networks and distributed systems. Topics of interest include, but are not limited to, the following:

- Quality of Service provisioning
- Design, implementation or architectures related to QoS-enabled networks and distributed systems
- Scheduling, resource management, queue management, and admission control
- Game-theoretic aspects in wired/peer-to-peer/overlay/wireless networks and distributed systems
- Incentive engineering in wired/peer-to-peer/overlay/wireless networks and distributed systems
- QoS routing in wired/peer-to-peer/overlay/wireless networks and distributed systems
- Traffic analysis, traffic engineering, and traffic shaping in heterogeneous environments
- Middleware for wired, peer-to-peer, overlay, and wireless networks and distributed systems
- QoS-aware service composition in distributed systems
- Security protocols and algorithms in wired, overlay and wireless networks
- Pricing, billing, and resource allocation in wired, overlay and wireless networks
- QoS adaptation, modeling and measurements
- Performance optimization in peer-to-peer and overlay networks
- Scalability of large-scale overlay and wireless networks
- Resilience of overlay and wireless protocols
- Cross-layer protocol design in wireless networks
- Energy-aware protocols and algorithms in wireless networks
- Cross-layer performance optimization for energy, network lifetime, and capacity
- Topology control for QoS support in wireless networks
- QoS in WLAN, WPAN, WMAN and WiMAX (IEEE 802.11/15/16/20)
- QoS support across heterogeneous wired and wireless subnetworks
- MAC protocols with QoS support
- QoS and survivability in mobile environments

Accepted papers will be published in the ACM International Conference Proceedings Series and will be made available in ACM Digital Library, as well as indexed by EI and ISI Index. Papers of particular merit will be selected for consideration of fast track publication in *ACM/Springer Mobile Networks and Applications* (approved) or *Elsevier Computer Networks* (pending approval).

Paper Submission – QShine 2007 invites manuscripts that present original materials not previously published in, or currently under review by, another conference or journal. Submissions should be either full-length papers of up to 7 pages or short papers of up to 4 pages (including all figures and references) formatted according to <http://www.acm.org/sigs/pubs/proceed/template.html> with font sizes of 9 points. Full-length papers should report on completed work and will be considered for oral presentations. Short papers should report on work in progress or discuss open problems, and will be considered for poster presentations. A separate abstract of no longer than 200 words should be submitted as well. Submissions will be judged by their originality, significance, interest, clarity, relevance, and correctness. All papers should be electronically submitted in Adobe PDF format. Please follow the submission instructions at <http://www.qshine.org/submission.html> to submit your paper.

Important Dates

Paper submission deadline:	extended to April 2, 2007, 11:59pm PST
Notification of acceptance:	May 23, 2007
Camera-ready papers due:	June 11, 2007
Conference:	August 14-17, 2007





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Call for Workshops

QShine 2007 organizing committee invites proposals for workshops to be held in conjunction with the conference. The purpose of these workshops is to discuss work in progress and explore opportunities for new research related to quality of service in heterogeneous wired/wireless networks. We solicit proposals from researchers and practitioners from all areas of networking and wireless communications.

Topics of a particular interest are:

- Innovative cross-layer techniques for wireless systems;
- Mobility protocols in hybrid networks;
- Heterogeneous sensor networks;
- Vehicular ad hoc networks;
- Cognitive networking;
- Peer-to-peer networking;
- Satcom/terrestrial interworking.

A workshop proposal should contain:

- A brief description of the specific technical issues that the workshop will address;
- The reasons why the workshop is interesting and timely;
- A draft call for papers, including the workshop submission deadlines;
- Tentative composition of the technical chair and the related committees.

Proposals for workshops should be at most four pages in length and must be submitted to Dr. Giovanni Giambene, Università degli Studi di Siena, by email to giambene@unisi.it.

Important dates

Deadline for proposals	February 1, 2007
Notification of acceptance	February 15, 2007
Camera ready papers	June 15, 2007
Workshops at QShine 2007	August 14, 2007

QShine is sponsored by



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