

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

ICST QShine 2008

Hong Kong July 28-31, 2008

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

Co-sponsored by: ICST

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Call for Papers

Overview – Recent technological developments in wireless communications and mobile networks, broadband networks, pervasive computing, and distributed computing have led to a wide variety of new challenging problems. These include the provisioning of Quality of Service (QoS), survivability, resilience and scalability in a wide range of emerging applications and services over large-scale wired and wireless networks.

The Fifth International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2008) will focus on the research challenges associated the design and implementation of large-scale wired and wireless networks and distributed systems. The aim of this conference is to bring together research and practitioners to present and share the latest results in the areas of performance, configuration, cross-layer approaches, scalability, resilience and survivability of large scale heterogeneous networks and distributed systems. Following the tradition of the previous QShine meetings, QShine 2008 will feature prominent invited speakers as well as papers by top researchers in the field.

Scope – Original papers addressing performance optimization and Quality of Service support, ranging from the link layer to the application layer, over large-scale wired and wireless networks and distributed system, are solicited. Authors are encouraged to submit theoretical and/or experimental results of significance. The scope of the conference includes, but is not limited to:

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

Publication – All submitted papers will go through a peer review process. All accepted papers will be included in the QShine 2008 Conference Proceedings. All accepted papers will be made available in, Association for Computing Machinery (ACM) Digital Library and then be indexed by Engineering Information (EI). Selected papers from QShine 2008 will also be recommended to a special issue of a top journal.

Research papers of particular merit will be selected for consideration of fast track publication in a *ACM/Springer Mobile Networks and Applications* (approved). Moreover, some selected papers will be considered for publication in *special issue on "Heterogeneous Networking for Quality, Reliability, Security, and Robustness" of Elsevier Computer Communications*.

Submission Instructions – QShine 2008 invites submission of manuscripts that present original material and that have not been previously published or under review by another conference or journal. Prospective authors are encouraged to submit a PDF version of the full paper in ACM conference proceedings format, which are limited to 7 single-spaced two-column pages (including all figures and references) in a 10 point font. All paper submissions will be handled electronically. Please visit the Submission page for detailed submission requirements and procedures.

Important Dates

Full Papers due: ~~March 10, 2008~~
March 24, 2008
Notification of Acceptance: May 15, 2008
Camera-ready Manuscripts due: June 1, 2008
Conference Dates: July 28-31, 2008

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Call for Workshops

QShine 2008 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;
- Heterogeneous sensor networks;
- Wireless mesh networks and ad hoc networks;
- Vehicular networks;
- Cognitive radio and networking;
- Mobility management in heterogeneous networks;
- Peer-to-peer networking;
- Grid Computing and distributed services;
- 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. Yu Cheng, by email: cheng@iit.edu.

Important Dates

Deadline for proposals:	January 15, 2008
Notification of Acceptance:	February 1, 2008
Camera-ready Manuscripts due:	June 10, 2008
Workshops at Qshine Dates:	July 28, 2008

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