

Theme and Scope

Today, the key research issues towards next generation multimedia networks are how to ensure media-dependent Quality of Service (QoS) to users. For the proper design, development and operation of emerging ideas on networking, further studies on performance modeling and evaluation reflecting from the above point are encouraged. To this end, interdisciplinary researches on performance analysis and system management of communication networks are inevitable. Among many related disciplines, networking, traffic engineering, queueing theory, stochastic process theory, optimization theory, and simulation technology play a crucial role.

Therefore, we started this series of Symposia for the first time in Korea in 2006 and the second time in Japan in 2007 to cultivate mutual friendship among researchers from Asia-Pacific countries. Following the success of the first and the second Symposia we organize the third one in Taipei, Taiwan in 2008. This Symposium offers an open forum to exchange the latest research accomplishments among academia and industries, which hopefully leads to innovative ideas.

The meeting is supported by the Institute of Intelligent Information and Communications Technology (IICT) of Konan University, Japan, Operations Research Society of China (ORSC), Operational Research Society of Hong Kong (ORSHK), International Society for Mathematical Sciences (ISMS), Operations Research Society of Japan (ORSJ), Korean Operations Research and Management Science Society (KORMS), Korean Institute of Industrial Engineers (KIIE), Operations Research Society of Taiwan (ORSTW), Institute of Information Science (IIS) Academia Sinica of Taiwan and National Science Council (NSC) of Taiwan.

Expected subjects are, but not limited to, the following and related topics:

Queueing Theory and Related Areas

- Matrix analytic methods
- Queueing analysis of scheduling policies
- Tail asymptotic in queueing models
- Large deviation theory
- Analysis of multi-class queueing networks
- Optimization of queueing systems
- Simulation of queueing models
- Capacity planning methods
- Source modeling for multi-media traffic and web-based applications
- Traffic measurement and data analysis
- Algorithms for self-organized optimization
- Performance evaluation and simulation tools

Applications in Telecommunication Networks

- Performance modeling and analysis of telecommunication networks
- Congestion and flow control
- Traffic management and routing
- Design and system management of communication networks
- Multimedia based systems design, configuration and impact
- Cost benefit analysis and economic impact of telecommunication systems
- Mobile/wireless and satellite communication systems
- Traffic models of voice, video and streaming
- QoS of VoIP
- Ad-hoc and sensor networks
- Peer-to-peer communication
- Performance of autonomic and ambient networks

Important Dates

Papers (or Extended Abstracts) due May 5
Notification of acceptance June 4
Final manuscript due July 1
Symposium date July 30–Aug 2

Papers (or Extended Abstracts)

Papers (or Extended Abstracts) must be electronically sent to Mr. Chia-Hung Wang:

qtna2008@math.math.nccu.edu.tw

in PostScript, PDF or MS-Word files with the following information (1000-word (2 or 3 pages) extended abstract, maximum ten (10) pages full paper):

- Title of the paper
- Name(s) and affiliation(s) of the author(s)
- Postal address
- E-mail address(es) of the author(s)
- Download a sample paper in Latex file, MS-Word file and PDF file at

<http://www.orlab.nccu.edu.tw/qtna2008>

Special Issue

Selected papers from those presented at the symposium will be published in a special issue of Journal of Industrial and Management Optimization (JIMO):

<http://aims sciences.org/journals/jimo/description.htm>

Guest Editors:

Prof. Wuyi Yue
Prof. Yutaka Takahashi
Prof. Hideaki Takagi

For details, please see Call for Paper of the Special Issue entitled "Advanced Queueing Theory and Network Applications" in the home page of QTNA2008.

Awards

- (1) Best Paper Award
- (2) Best Student Paper Award

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