

Program Chairs

Hong Tang
tanghong@cqupt.edu.cn

Giannong Cao
csjcao@comp.polyu.edu.hk

International Program Committee

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Sasitharan
Balasubramaniam
Kamel Barkaoui
Anne-Marie Bosneag
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Submission Deadline

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As the fundamental infrastructure to the information age, networking and communications have remained one of the most vibrant areas of stimulating technology development. We have been about to see the tomorrow's picture of networking and communications, that is, convergence of diversified networks, integration of IP based core network and flexible robust wireless access, self-organization and self-management, on-demand service oriented architectures, to just mention a few striking characteristics. Topics of particular interest include (but not limited to) the followings.

(1) High Performance Autonomous Networking

- active/programmable networks
- adaptive networking
- all IP networks
- complex network and resource management
- distributed network management
- high performance networking systems
- intelligent networks
- internetworking architectures
- multimedia networks
- network intrusion detection and protection
- network privacy and security
- network QoS and performance evaluation
- next generation networks
- novel network architectures and protocols
- on-demand networking
- policy based management of network resources, services and access control
- policy based systems, platforms, and languages for networking
- SLA/contract based network management for next generation networks
- user level programming of network services

(2) Self-organization of Networks

- context awareness and self-adaptation of networking
- context-aware networks
- self-defending networks
- self-managed, self-configured networks, systems and services
- self-management of network resource and service
- self-monitoring of network operations
- self-optimization of network performance
- self-organization and emergent behavior in P2P networks
- self-organization and self-configuration of networks
- self-organization in overlay networks
- self-organized ad hoc sensor networks
- self-organized service deployment
- self-protection, self-diagnosis, and self-healing of networking

(3) Internet

- distributed applications on internet
- enterprise intranets
- internet based systems engineering
- internet caching algorithms
- internet computing
- internet engineering
- internet protocols analysis and design
- internet scalability
- internet security, trust and privacy
- internet telephony
- internet traffic models and statistics
- next generation internet

(4) Mobile Communications

- 2G/3G/4G integration

- 3G/4G bandwidth on demand

- cognitive radio
- dynamic spectrum access networks
- encryption and cryptography in wireless and mobile environment
- location based services and positioning
- micro and macro-mobility
- middleware for handhelds and mobile services nodes
- mobile and pervasive applications and services
- mobile multimedia applications
- mobile radio networks
- mobile software architecture and programming
- mobility, location and handoff management
- multimedia QoS and traffic management
- pervasive/ubiquitous computing
- power and interference control
- protocols for wireless networks and mobility
- QoS management mobile systems
- security, privacy, authentication, and authorization in wireless and mobile environments
- service portability and mobility
- software defined radio and re-configurability
- ultra-wideband (UWB)

(5) Wireless Networks

- cross-layer design in wireless networks
- integrated wireline/wireless networks
- internetworking heterogeneous wireless/wireline networks
- media and content distribution over wireless networks
- mobile ad-hoc networks
- mobile and wireless IP
- mobile/wireless networks modeling and simulation
- multi-hop wireless networks
- network monitoring and accounting in wireless and mobile environment
- networks convergence and integration
- performance of end-to-end protocols over wireless networks
- policy based management in wireless LANs and MANs
- proxies and middleware for wireless networks
- routing in multihop, ad hoc and sensor networks
- topology control in wireless networks
- traffic and congestion control, QoS, resource management in wireless networks
- wireless ad hoc networks
- wireless and mobile network planning
- wireless broadband mobile access
- wireless LANs, MANs
- wireless MAC protocols
- wireless mesh networks
- wireless multicasting
- wireless networks managements
- wireless protocols and architectures
- wireless sensor networks
- wireless WANs: 2G/3G/4G
- wireless-wireline convergence