Topics

The authors are requested to submit full papers describing original, previously unpublished, complete research, not currently under review by another conference or journal, addressing state- of-the-art research and Emerging Trends in Networks and Computer Communications in the following areas but not limited to:

Wired and Wireless networks

IP Multimedia subsystems (IMS), 3G/4G/5G integration, Wireless protocols, Architectural and design concepts, Design and implementation of mobile information systems, Wireless communications and mechanisms, Wireless technologies, Wireless applications & services, Wireless-wireline convergence and Management.

Mobile and Ad hoc Networks

Architecture and routing protocols for mobile networks, Architectures, frameworks, fundamentals on ad hoc networks, Energy efficient design, cross-layer design, scalability, MAC protocols for ad-hoc and sensor networks (801.11, Bluetooth, Zigbee etc.), QoS, access control and security in mobile and ad hoc networks, Applications over ad hoc networks.

Multimedia Networking System

Technologies, protocols, and mechanisms for multimedia communications, Wireless mobile multimedia communications, Ad hoc multimedia networks, IP-based Multimedia Subsystems (IMS), QoS in mobile multimedia services and applications, Security and performance for multimedia communications, Management, QoS, and security aspects in streaming over wireless ad hoc networks, Peer-to-Peer (P2P) traffic for IPTV services, Management and control of multimedia systems, Standards protocols for multimedia communications.

Sensor Networks

Architectures, Management, Performance, Power and protocols for wired and wireless sensor networks, Ad hoc and wireless sensor networks, Security and reliability aspects in sensor networks and QoS in sensor networks.

Vehicular Networks

Communication technologies in vehicular networks , Frameworks and architectures for vehicular networks, Interoperability with Internet and other networks, Vehicle-infrastructure communications and Vehicle-to-vehicle communications.

Security Systems

Security analysis methodologies, Middleware and distributed systems security. Cryptography, certificates, information hiding, access control Protection, risk, vulnerabilities, attacks, authorization/authentication. Access control, wireless access control, broadband access control. Biometrics, smart cards, identification and trust methodologies. Certification, accreditation anonymity, and audit. Security management, emergency contingency planning, identify theft, life safety, Wireless and mobile security. Electronic surveillance and e-commerce protocols, Security and trust in web-services-based applications. Peer-to-peer security, denial of services. Criminal exploitation of technology. Commercial and industrial security. Viruses, hackers, worms, spam, and other malicious code.

Pervasive Education Systems

Learning and teaching systems, E-learning methods and e-learning scenarios, Tools and architectures for mobile/ubiquitous e-learning, Distance learning and education, Multimedia environment for teaching, etc.

Network-on-chip (NoC)

Scalable communication structures, On-chip communication, System-on-a-Chip (SoC), communication subsystem and power efficiency of complex SoCs.

e-Agriculture

e-services for Agriculture, ICT development for personal access of farmers in rural area, On-line trading of agricultural products, Supporting agricultural education/training through ICT, Raising awareness on environmental issues through the use of web technologies, Monitoring and decision support systems for environmental protection, Improving quality of life in rural areas through ICT, Robotics and automation systems in agriculture and environmental protection, Web and mobile services for environmental/agricultural issues, Enhancing chain management and traceability in the agriculture chain through novel technologies.