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<http://www.temu.gr/>



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## CALL FOR PAPERS

The International Conference on Telecommunications and Multimedia (TEMU) provides a forum for discussion on recent advances in wired and wireless communication systems, audiovisual applications and content creation/delivery technologies, Internet services and interactive applications, as well as on tools and techniques for their performance evaluation and QoS/QoE validation under simulated and real conditions environments. It was launched in 2006 as a bi-annual international conference, motivated by the ever increasing interest in the above R&D fields, their strategic importance in humans' everyday life and their impact on users' personal and social activities. TEMU 2016 will celebrate its ten-year anniversary at Heraklion, Crete, Greece, providing three-days Scientific Program from 25 to 27 July 2016 with regular and invited technical papers, key-note talks and panel discussions, as well as a contest for the Student Paper Award "Vassilios Zacharopoulos". In this respect, TEMU 2016 is soliciting papers describing original works, presenting consolidated results or bringing up innovative ideas, which are unpublished and not currently submitted for publication elsewhere, on topics, including but not limited to:

### Wired/Cable/Fibre Communications

- Network architectures and protocols for wired/cable communications
- Twisted pair copper systems and xDSL
- Broadband Power Line communications
- Hybrid Fiber Coaxial (HFC) systems
- FTTx and Passive/Active Optical Networks (PONs and AONs)
- Optical network architectures, control and management
- Routing and wavelength assignment
- IP-WDM integration
- Optical networks to support Cloud and Grid computing
- Field trials, new applications and experiments
- Energy efficient/green wired/cable networks
- Network security and privacy
- Standardization activities on wired/cable networks

### Wireless/Mobile Communications

- Network architecture and protocols for wireless communications
- Standardization on Wireless Systems
- Bluetooth, Wi-Fi, WiMAX, LTE, WLL and Cellular Access
- Broadcast Networks, Satellite & Space communications
- Wireless LAN/PAN
- Ultra-wideband networks
- Free-Space Optical-Access
- Visible Light Communications
- Underwater Communications
- Reconfigurable wireless networks
- Software defined and cognitive radio networks
- Adaptive Modulation and Coding
- Network Coding in Mobile Environments
- Wireless Propagation and Channel Characterization
- MIMO and Multi-antenna Communications
- Energy efficient/green wireless networks
- EMF Measurement Methodologies and Uncertainty Estimation
- EMF Radiation Modelling and Simulation
- Bio-Effects of EMF Exposure

### Next Generation Services and Service Delivery Platforms

- Hybrid wired/wireless service platforms
- Heterogeneous and blended network configurations
- IMS/P2P synergy for multimedia services delivery
- Convergence of communication and global services
- GIS and location-based services
- Social networking services and platforms
- Cloud Computing and distributed services
- IaaS, PaaS, SaaS
- Everything-as-a-Service model and delivery platforms
- VoP2P and P2P-SIP services
- Next Generation Services and emerging threats
- Home network services and platforms

### 3D Media Creation and Delivery

- 3D Capture, Processing, and Coding
- 3D audio-visual scene reconstruction techniques
- Multi-view and multi-sensor imaging
- System Architectures and Transmission for 3DTV
- Fixed and mobile 3D multimedia applications and systems
- 3D multimedia delivery, over P2P architectures
- Error resilience and error concealment of 3D video
- 3D multimedia devices and terminals
- Quality of Experience (QoE) for Emerging 3D Multimedia Services
- Subjective/Objective quality metrics & evaluation
- Interactive media processing for social groups
- Virtual reality and augmented reality
- Standardisation activities for 3D multimedia services

### e-Services and Interactive Applications

- ICT-enabled personal health systems
- Image and video processing for E-Health
- Social networking application and services
- e- Government services and public service infrastructures
- e-Business applications and marketing strategies
- Interactive TV and Social TV
- Security and privacy for e-Services

### QoS, Reliability and Modelling

- Quality in Multimedia Networks including VoIP and IPTV
- Performance Evaluation Techniques
- Quality, Scalability and Performance in the Internet
- Network Simulation Techniques
- Quality and Performance in Wireless and Mobile Networks
- Network Modelling
- Quality, Reliability and Performance in Optical Networks
- Network Measurement and Monitoring Techniques
- Quality and Performance in Distributed and Cloud Computing
- Resource Allocation for Networks and their services
- Traffic and Workload Modelling and Characterization
- Metrics and Models for Quality of Experience (QoE)
- Standardization Aspects of QoS and Reliability

### Internet of Things (IoT)

- Architectures for the Internet of Things (IPv4 & IPv6 Enabled)
- Future technologies bridging the physical and virtual worlds
- End to End / Machine to Machine (M2M) protocols
- Cloud computing and IoT internetworking
- Middleware architectures & M2M Platforms
- Embedded Web Services (RESTful, CoAP, Lightweight SOAP...)
- Lightweight structured data (EXI, JSON...)
- Mobile integration of the Web of Things
- User-oriented, context-aware IoT services
- Integration of the Handle System
- Semantic technologies for devices and services
- Indexing, naming, and addressing the Internet of Things
- Security, Trust, Privacy and Identity in the IoT
- Smart cities deployments, test-beds and field trials
- Smart cities through mobile computing and smart phones interaction
- Efficient resource management (water, energy...) in Smart Cities
- Smart cities deployments, test-beds and field trials

### Software and Protocol Technologies for advanced service support

- Web Services and distributed S/W technology
- Location-based services
- Distributed systems and applications
- Ubiquitous computing services and applications
- Peer-to-Peer technologies for communication services
- Service overlay networks
- Cooperative communications
- Context awareness and personalization
- Traffic modelling and traffic management
- Cross-layer design and optimization
- Energy efficiency flow control and routing mechanisms

### SDN & NFV

- Standardization – ONF, IETF, ITU, ETSI, ATIS
- SDN Controller architectures, and design challenges
- Operational models of computing, storage and networking
- OpenFlow/ OVSDB/ OF-Configuration
- Orchestration and controllers
- Performance evaluation and optimization
- Monitoring and reliability of network services
- Application of Big Data models and analytics to NFV/SDN
- Commercial models for NFV/SDN ecosystems
- Service & information orchestration/chaining
- Scalability dimensions on control architectures
- Security deployment issues including monitoring,
- Security function virtualization, security as a service

### Informatics in Geoenvironmental Monitoring

- Remote Sensing
- Natural Hazards
- Cultural Heritage
- Agriculture
- Environment
- Earthquake Prediction and Forecasting
- Landslides
- Earth Observation
- Earth's System Complexity
- Geoenvironmental Sensors

Authors are invited to submit original and unpublished work, not exceeding 6 pages, following the [Standard IEEE conference templates for MS Word or LaTeX formats](#). Papers should be submitted as PDF files through the EDAS system. All submitted papers will be subject to three independent reviews and judged on originality, technical correctness, relevance, and quality of presentation. An accepted paper must be registered, and presented at the conference venue by one of the authors registered at the full registration rate. Each full registration covers up to two papers by an author.

## TEMU Steering Committee

- Evangelos Pallis, TEI Crete, Greece
- Charalabos Skianis, University Aegean, Greece
- Anthony Boucouvalas, University Peloponnese, Greece
- Harry Perros, NC State University, USA
- Nelson Fonseca, University Campinas, Brazil

## Important Dates

- Special sessions and workshops proposals.....**December 20, 2015**
- Submission of technical papers.....**February 28, 2016**
- Notification of acceptance .....**March 28, 2016**
- Submission of camera-ready papers .....**April 11, 2016**