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Call for Papers

TEMU2012 is an International conference under the Technical Co-Sponsorship of IEEE Communications Society, to present new and original research results in Telecommunications and Multimedia, fostering communication and discussion among researchers, scientists and students working in the design, implementation and application of these areas. The conference will provide a three-day Scientific Program, including presentations of invited and regular papers from manufacturers, operators, services providers, academia and research institutes, as well as from policy-makers and stakeholders. Authors are invited to submit novel, challenging and innovative results on both theoretical and practical aspects of the scope of the conference, as presented in <http://www.temu.gr>, which includes but is not limited to:

Wireless access, network architecture, and standards

- Network architecture
- Cognitive wireless networks
- Reconfigurable wireless networks
- Broadband wireless access
- Multimode wireless networks
- 3G/4G wireless networks
- Home entertainment networks
- Wireless mesh networks
- Ubiquitous coverage
- Wireless LAN/PAN
- Ultra-wideband networks

Wireless Communications and measurements

- Adaptive Modulation and Coding
- Multi-user Detection, Signal Separation and Interference Rejection
- Dynamic/Opportunistic Spectrum Access
- Joint Source-channel Coding for Wireless Communications
- Cooperative Communications
- Wireless Propagation and Channel Characterization
- MIMO and Multi-antenna Communications
- Network Coding
- Power Control and Radio Resource Management
- Ultra-wideband (UWB) Communications
- Cross-Layer Design and Adaptation
- Resource Allocation and Interference Management
- Advanced Equalization for Single Carrier Systems
- Synchronization, Estimation and Detection
- Coexistence in Unlicensed Spectra
- DVB, DAB and Broadcast Networks
- Wireless Communication Test-beds
- Standardization on Wireless Systems
- EMF Measurement Methodologies and Uncertainty Estimation
- EMF Reference Level Compliance Estimation
- EMF Radiation Modelling and Simulation
- Bio-Effects of EMF Exposure
- Extremely Low Frequency Fields Measurements

Next Generation Services and Service Delivery Platforms

- Mobile services and platforms
- Social networking services and platforms
- IMS and multimedia services
- Convergence of communication and global services
- GIS and location-based services
- Everything-as-a-Service model and delivery platforms
- VoP2P and P2P-SIP services
- Next Generation Services and emerging threats
- Home network services and platforms

Multimedia Analysis, Processing and Communications

- Multimedia delivery over wired and wireless networks
- Peer-to-Peer services, overlay optimization and content delivery
- Content-centric and content-based networking
- Scalability and reliability issues
- Cross-layer optimization for multimedia service support
- Scalable video delivery
- Multicast, broadcast and IPTV
- Video quality assessment and impairment concealment
- Media streaming

Network and Service Management and Provisioning

- Multimedia QoS provisioning
- Virtual home environment
- Quality of experience for end-to-end communications
- Charging, pricing, business models
- End-to-End Quality-oriented routing algorithms
- Triple and Quadruple play services
- Service creation, delivery, management
- Security and privacy in network and service management
- Network management and Service overlay networks

Network design, control, and performance

- Capacity analysis
- Energy efficiency
- Quality-of-service provisioning
- Network clustering
- Network performance analysis
- Traffic modelling and traffic management
- Cross-layer design and optimization
- Access and admission control
- Distributed control and management
- End-to-end protocols and performance
- Flow control and congestion control
- Protocols and algorithms
- Pricing and billing

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
- Quality and Resource Allocation for Network Services
- Metrics and Models for Quality of Experience (QoE)
- Performance of Large Scale Experimental Platforms
- Standardization Aspects of QoS and Reliability

Digital media ecosystem

- Architectures for digital media ecosystem: from producer to consumer
- IPTV service and home networking
- Architecture of content generation and adaptation
- QoS measurements for digital media: evaluation and analysis
- Home and entertainment digital media ecosystem
- Scalable and network-aware digital media techniques
- Internet digital media ecosystem
- Security and digital right management
- Performance studies of digital media ecosystem
- Business models and economics for digital media ecosystem

Software and Protocol Technologies for advanced service support

- Web Services and distributed SW technology
- Location-based services
- Distributed systems and applications, including Grid Services
- Ubiquitous computing services and applications
- Peer-to-Peer technologies for communication services
- Communications software in vehicular communications
- Service overlay networks
- Cooperative communications
- Context awareness and personalization

Optical and Grid computing

- Optical network architectures
- All optical networks
- Optical switching technologies, devices, and architectures
- Multi-granularity switching
- Multicasting in optical networks
- Optical network control and management
- Routing and wavelength assignment
- Optical packet and burst switching
- IP-WDM integration
- Protection and restoration
- Multi-layer / Multi-domain optical networks
- Optical access networks
- Optical networks to support Cloud and Grid computing
- Field trials, new applications and experiments
- Energy efficient/green optical networks and systems

Authors are invited to submit original and unpublished work, not exceeding 6 pages-long, following the [Standard IEEE conference templates for MS Word or LaTeX formats](#). Papers should be submitted as PDF files through the EDAS system (<http://edas.info/N12507>). 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. Accepted papers in TEMU2012 will be also published in IEEE Xplore.

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Deadlines

Special sessions and workshops proposals.....**March 30, 2012**
Submission of technical papers.....**May 07, 2012**
Notification of acceptance**June 04, 2012**
Submission of camera-ready papers**June 25, 2012**

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