**Call for Papers**

IEEE Consumer Communications and Networking Conference (CCNC) is a major annual international conference. Taking advantage of its co-location with CES (the world’s largest tradeshow on consumer technology, extensive press coverage and ~150,000 attendees), CCNC is organized with the objective of bringing together researchers, developers, and practitioners from academia and industry working in all areas of consumer communications and networking.

Authors are invited to submit a full paper (two-column, 6-9 pages) according to the guidelines available at http://www.ieee-ccnc.org/. Reviewing will be double blind. The organizers of IEEE CCNC 2013 as well as all our attendees expect accepted papers to be presented at the conference. IEEE reserve the right to exclude a paper from distribution after the conference (e.g., removal from IEEE Xplore) if the paper is not presented at the conferences.

**Technical Program Highlights**

Mobile Device, Platform

and Applications

Chair: Ben Falchuk, ACS/Ericsson

Social Networking & Social Media

Chair: Henry Holtzman, MIT

Wireless Communications

Chairs: Angela Yingjun Zhang, CUHK

Wei Chen, Tsinghua University

David Grace, York University

Wireless Networking

Chair: Xi Zhang, Texas A&M University

Wei Yu, Towson University

Peer-to-Peer Networking and

Cloud-Based Content Distribution

Chair: Kurt Tutschku, Univ. of Vienna

Multimedia Networking, Services and Applications

Chair: Marie-José Montpetit, MIT

Smart Spaces and Sensor Networks

Chair: Damla Turgut, U. of Central Florida

Frederick T. Sheldon, ORNL

Security, Content Protection and DRM

Chair: Ton Kalker, Huawei

Vehicular Communications and Networking: V2V, V2I, V2R, and V2U

Chair: David Matolak, Ohio University

Green Communications

and Computations

Chairs: Xi Zhang, Texas A&M University

F. Richard Yu, Carleton University

eHealth, Ambient Assisted Living

Chairs: Artur Serrano, NST

Pradeep Ray, U. of New South Wales

Telepresence & Tele-robot

Chairs: Cha Zhang, Microsoft

Ruigang Yang, Univ. of Kentucky

Intelligent and Emotion-oriented Computing

Chair: Youngsang Choi, Samsung

3D Imaging, Processing, Communication and Display

Chairs: Du Sik Park, Samsung

Seungsin Lee, Samsung

**New Initiative Highlights**

All general questions regarding to IEEE CCNC 2013 can be directed to Jin Li (jinl@microsoft.com) directly.

CCNC 2013 features a number of new initiatives to bring together academia and industries. These include:

Grand Challenge

Chair: Cheng Huang, Microsoft

Industry Session

Chair: Stan Moyer, Inventures

Paper Award

Chair: Henry Holtzman, MIT

Demos (Chance to Show Demos in CES, to ~150,000 visitors)

Chairs: Frank den Hartog, TNO

Venkatesha Prasad, U. of New South Wales

Student Council

Chairs: Yanjiao Chen, HKUST

Vida Ferdowsi, U. of Missouri, Kansas

Workshops

(with expanded scopes)

Chair: Alexandros G. Dimakis, USC

Tutorials

(Free to all attendees)

Chair: Sudipta Sengupta, Microsoft

**Excecutive Committee**

General Chair

Eunsoo Shim, Samsung

Technical Program Chair

Jin Li, Microsoft

Steering Committee Chair

Robert S. Fish

**Technical Program Details**

Mobile Device, Platform

and Applications

Chair: Ben Falchuk, ACS/Ericsson

· Mobile platform and mobile applications

· Machine-to-machine (M2M) communications, protocols, applications, test-beds

· Mobile cloud computing / platform issues and techniques

· Performance oriented design and evaluation

· Test-bed implementations and results

· Platform and application trustworthiness

· Mobile operating systems

Social Networking & Social Media

Chair: Henry Holtzman, MIT

· Collection and analysis of social networking data

· Collaborative platforms and social recommendation

· New applications and services for social networks

· Social media on connected consumer electronics

· Novel connected consumer objects with embedded social networking

· Distributed architectures for social networks.

· Performance and scalability of social networks

· Synchronization of information using social networks

· Identity management and personas

Wireless Communications

Chairs: Angela Yingjun Zhang, CUHK

Wei Chen, Tsinghua University

David Grace, York University

· Modulation, coding, and diversity techniques

· MIMO and multi-antenna communications

· OFDM and multi-carrier systems

· Wireless air interface and link control

· Signal processing for PHY

· Cross-layer design and PHY based network issues

· Distributed multipoint, relay assisted, and cooperative communications

· Network coding

Wireless Networking

Chair: Xi Zhang, Texas A&M University

Wei Yu, Towson University

· Cellular systems, 2G/2.5G/3G/4G and beyond

· WiMAX, LTE, WMAN, and other emerging broadband wireless networks

· Networking issues in WLAN, WPAN, and other home/personal networking technologies

· Hybrid wireless and wired networks

· Satellite wireless networks

· Cooperative and relay wireless networks

· Body-based wireless networks

Peer-to-Peer Networking and

Cloud-Based Content Distribution

Chair: Kurt Tutschku, Univ. of Vienna

· P2P platforms, algorithms and architectures

· Overlay and application layer multicast

· Peer-to-peer VoIP and video conferencing

· Consumer applications enabled by P2P

· Resource and content sharing and distribution

· Incentive mechanisms in P2P networks

· Reputation and trust mechanisms for P2P networks

Multimedia Networking, Services and Applications

Chair: Marie-José Montpetit, MIT

· Compression, processing and rendering

· Streaming protocols and applications

· Quality of Service (QoS) and quality of experience (QoE) measurement and analysis

· Multimedia services and applications over converged networks

· Network coding for caching and dissemination

· Network optimization for multimedia streaming and interactive gaming

Smart Spaces and Sensor Networks

Chairs: Damla Turgut, U. of Central Florida

Frederick T. Sheldon, ORNL

· Ad hoc, sensor, and vehicular networks

· Context-and situation-awareness for smart spaces

· Real systems and testbed results for smart spaces

· Smart grid energy infrastructure cyber protection

· Smart grid security risk assessment and management

· Scalable/trusted control systems security

· Security assurance/interoperability for energy delivery systems

Security, Content Protection and DRM

Chair: Ton Kalker, Huawei

· DRM technologies and systems

· DRM usability

· Media security

· Hardware and software security

· Robust identification

· Security models & threat analysis

· Privacy and anonymity

· Media usage and business models

· Content protection and social media

Vehicular Communications and Networking: V2V, V2I, V2R, and V2U

Chair: David Matolak, Ohio University

· Physical layer: channels and propagation, DSRC/WAVE, enhancements, MIMO, latency

· Networking: IEEE 1609, broadcasting/multicasting/unicasting, ad hoc operation, interference in large aggregations of vehicles, capacity

· Simulations: PHY, MAC, V2V/V2R networking, V2V ad hoc networking, applications

· Operation/deployment: field trials, economic models, infrastructure ownership/operation, penetration

Green Communications

and Computations

Chairs: Xi Zhang, Texas A&M University

F. Richard Yu, Carleton University

· Energy efficient hardware,software,devices&designs

· Low energy consumption and low GHG emission

· Power and spectrum efficient mobile

· Energy and GHG emission metrics & measurements

· Standards, policy, and regulation

· Security of green communications and computations

· Experimental test-beds and results

· Pricing and billing

**Technical Paper Due: Aug. 31, 2012**

**Notification: Sept. 28, 2012**

**Camera Ready: Oct. 15, 2012**

Please visit http://www.ieee-ccnc.org/ for more information on Grand Challenges, Research Papers, Industry Talks, Tutorials, Keynotes, Plenary Talks, Panels, Demos, Workshops and Paper Submission Guideline.