Call for Papers

1st International Conference on 5G for Ubiquitous Connectivity (5GU)

Levi, Lapland, FINLAND
November 26th – 28th, 2014
www.5guconference.org

Highlights:
- The event is endorsed by the European Alliance for Innovation, a leading community-based organization devoted to the advancement of innovation in the field of ICT
- Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases
- Proceedings will be submitted for indexing by Google Scholar, ISI, EI Compendex, Scopus and many more

Scope:
In order to meet the huge demand for increasing capacity in wireless networks considerable leaps in technology development need to be made. Several research initiatives around the world on 5th generation mobile cellular systems have been launched recently. Also frequency regulation and standardization activities will be launched very soon targeting the next generation standard. The aim of this conference is to bring together researchers and developers as well as regulators and policy makers to present their latest views on 5G: potential disruptive technologies enabling 5G, spectrum policies for 5G, future business models, and of course, latest findings in key research activities on 5G.

Publication:
Conference content will be submitted for inclusion into IEEE Xplore as well as other Abstracting and Indexing (A&I) databases. Proceedings published with IEEE are submitted for inclusion to EI Engineering Index (Compendex), Google Scholar, ISI Proceedings. All further information including submission guidelines can be found at: www.5guconference.org

Topics include, but are not limited to, the following:

**Track 1 – Spectrum Regulation & Standardization**
Chair: Pekka Pirinen, CWC, University of Oulu
- Regulation and standardization
- Experimental systems and trials
- Multi-operator spectrum management
- Dynamic spectrum sharing

**Track 2 – PHY & MAC**
Chair: Antti Tölli, CWC, University of Oulu
- Interference management
- Modulation & coding
- MAC and duplexing
- Adaptive TRX schemes

**Track 3 – Transceiver Technologies**
Chair: Markku Juntti, CWC, University of Oulu
- Transceiver algorithms and architectures
- Transceivers for mm-wave bands
- Software defined and flexible radios
- Transceiver platforms, technologies and design tools
- Prototypes and demonstrators

**Track 4 – Future Access Networks**
Chair: Mehdi Bennis, CWC, University of Oulu
- Heterogeneous networks
- Cooperative networking / transmission
- Self-organized networks
- Context aware networking
- Content distribution networks & caching

**Track 5 – Channel Models and MIMO Antennas**
Chair: Erkki Salonen, CWC, University of Oulu
- 5G systems channel models
- Massive MIMO channel models and antennas
- MmWave technologies
- Reconfigurable antennas
- Wearable antennas and electronics

**Track 6 – Disruptive 5G Technologies**
Chair: Marcos Katz, CWC, University of Oulu
- Cloud technologies
- Visible Light Communications for 5G
- Software Defined Networks
- New operator business models

Conference Organizing Committee

**General Chair:** Matti Latva-aho, CWC, University of Oulu
**General Co-Chair:** Rahim Tafazolli, University of Surrey
**TPC Chair:** Nandana Rajatheva, CWC, University of Oulu

**TPC Co-Chairs:**
- Luis Correia, IST Lisbon
- Tinku Rasheed, CREATE-NET, Trento

**Conference Coordinator:** Erica Polini, EAI
**Local Coordinator:** Mari Lehmikangas, CWC, University of Oulu

Extended versions of best papers of the conference will have a possibility to be selected for publication in the Springer Mobile Networks & Applications (MONET) Special Issue on “Networking in 5G Mobile Communications Systems: Key Technologies and Challenges”.

For further details please visit http://www.springer.com/engineering/signals/journal/11036