

# 6<sup>th</sup> International Workshop on Self-Organizing Networks *IWSON*

Sunday, September 4<sup>th</sup>, 2016

Valencia Congress Centre, Valencia, SPAIN

IEEE **pimrc'16** 27TH ANNUAL IEEE INTERNATIONAL SYMPOSIUM  
ON PERSONAL, INDOOR AND MOBILE  
RADIO COMMUNICATIONS  
4-7 SEPTEMBER, VALENCIA, SPAIN



<http://tns.ds.unipi.gr/iwson2016/>

09:00 – 09:30 **Mingle and demonstrator setup / installation**

09:30 **Opening and welcome**

09:40 – 10:40 **Session I: Small Cells (Chair: Lars Christoph Schmelz, Nokia Bell Labs, Germany)**

- *On attachment optimization and muting pattern selection in eICIC (#1570280222)*: Ole Grøndalen and Kashif Mahmood (Telenor, Norway); Olav Norvald Østerbø (Telenor Corporate Development, Norway)
- *Self-Optimization of Coverage and Sleep Modes of Multi-Vendor Enterprise Femtocells (#1570281484)*: Lester Ho and Holger Claussen (Nokia Bell Labs, Ireland); Haris Gacanin (Nokia, Belgium)

10:40 – 11:10 **Coffee Break**

11:10 – 12:10 **Session II: Self-Healing and Traffic Steering (Chair: Fredrik Gunnarsson, Ericsson, Sweden)**

- *A Robust Algorithm for Anomaly Detection in Mobile Networks (#1570281862)*: Márton Kajó, Benedek Schultz, Szilárd Kocsis and Levente Bodrog (Nokia Bell Labs, Hungary)
- *Self-optimizing adaptive transmission mode selection for LTE-WLAN aggregation (#1570281986)*: Eva Perez, Irina Balan, and Bernhard Wegmann (Nokia Bell Labs, Germany); Daniela Laselva (Nokia Bell Labs, Denmark)

12:10 – 12:50 **Demonstrator Introduction (Chair: Zwi Altman, Orange Labs, France)**

Short poster introduction of the presented demonstrators

- *Evolution from Network Planning to SON Management using the Simulator for Mobile Networks (SiMoNe) (#1570278282)*: Dennis M. Rose (Technische Universität Braunschweig, Germany); Sören Hahn (Technische Universität Braunschweig & Institut für Nachrichtentechnik, Germany); Thomas Kürner (Technische Universität Braunschweig, Germany)
- *Demonstrator for Utility-based SON Management (#1570281684)*: Christoph Frenzel (University of Augsburg & Nokia Bell Labs, Germany); Simon Lohmüller (University of Augsburg, Germany); Lars Christoph Schmelz and Henning Sanneck (Nokia Bell Labs, Germany)
- *QoE driven SON for Mobile Backhaul (#1570281893)*: Lajos Bajzik, Csaba Deák, Tamas Karasz, Zoltán Vincze and Csaba Vulkán (Nokia Bell Labs, Hungary)

12:50 – 14:00 **Lunch**

14:00 – 14:50 **Session III: Demonstrators**

14:50 – 15:50 **Session IV: Neighbour Relations and Cell Search (Chair: Thomas Kürner, Technische Universität Braunschweig, Germany)**

- *On Automatic Establishment of Relations in 5G Radio Networks (#1570281930)*: Pradeepa Ramachandra, Fredrik Gunnarsson, Kristina Zetterberg and Reza Moosavi (Ericsson Research, Sweden); Mehdi Amirijoo (Ericsson Research, Ericsson AB, Sweden); Stefan Engström (Ericsson

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AB, Sweden); Claes Tidestav (Ericsson Research, Sweden); Edgar Ramos (Oy L M Ericsson AB, Finland)

- *Self-organizing Networks for 5G: Directional Cell Search in mmW Networks (#1570282018)*: Furqan Ahmed, Junquan Deng and Olav Tirkkonen (Aalto University, Finland)

15:50 – 16:20 **Coffee Break and Demonstrators**

16:20 – 16:50 **Session V (Chair: Fredrik Gunnarsson, Ericsson, Sweden)**

- *Network Management Automation in 5G: Challenges and Opportunities (Nokia Bell Labs, Germany) (#1570281663)*: Stephen S. Mwanje, Guillaume Decarreau, Christian Mannweiler, Muhammad Naseer-ul-Islam, and Lars Christoph Schmelz (Nokia Bell Labs, Germany)

16:50 – 17:50 **Mini Pecha Kucha Presentations & Discussion: What are the main 5G RAN SON challenges?**

17:50 **Wrap-up and Closing**

## Workshop Organizers:

*Prof. Dr. Fredrik Gunnarsson, Ericsson Research, Linköping, Sweden*

*Prof. Dr. Thomas Kürner, Technische Universität Braunschweig, Germany*

*Lars Christoph Schmelz, Nokia Bell Labs, Munich, Germany*

*Dr. Zwi Altman, Orange Labs, Paris, France*

*Dr. Markus Gruber, Nokia Bell Labs, Stuttgart, Germany*

*Dr. Kostas Tsagkaris, University of Piraeus, Greece*

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