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

Workshop IRACON - Inclusive Radio Communications for 5G and beyond

Sunday, September 4th, 2016
Valencia Congress Centre,
Valencia,SPAIN

This workshop is supported by the COST action CA15104 IRACON and the EU Projects Mesh-Wise, ACT5G and WiVi-2020.

Welcome	***09:00***	
Session 1 ANTENNAS	9:15	*Compact Dual-band Antenna Array for Massive* MIMO; L. Li, M. Ali, K. Haneda (Aalto University, Finland) *On stochastically emulating continuous scattering structures by discrete sources for OTA testing of DuT with highly directive* antennas; W. Kotterman, M. Landmann, G. Del Galdo (Fraunhofer Institute for Integrated Circuits IIS & Technische Universität Ilmenau, Germany) *Indoor Experiment on 5G Radio Access Using Beam Tracking at 15 GHz Band*; K. Tateishi, D. Kurita A. Harada, Y. Kishiyama, S. Itoh, H. Murai, A. Simonsson, P. Ökvist (NTT DOCOMO, INC., Japan, Ericsson Japan, Ericsson Research, Sweden)
Break	***10:40***	
Session 2 Massive MIMO	11:10	**Invited Talk**: ***Massive MIMO: Bristol - Lund Joint Field Trial Experiments and Record Breaking Spectrum Efficiency*, M. Beach, University of Bristol, UK.** *Evaluation of massive MIMO systems using time-reversal beamforming technique*; M. Mbeutcha, W. Fan, J. Hejselbæk, G. Pedersen (Aalborg University, Denmark) *Large Scale Experimental Trial of 5G Mobile Communication Systems—TDD Massive MIMO with Linear and Non-linear Precoding Schemes* ; X. Wang, X. Hou, H. Jiang, A. Benjebbour, Y. Saito, Y. Kishiyama, J. Qiu, H. Shen, C. Tang, T. Tian, T. Kashima (DOCOMO Beijing Communications Laboratories Co., Ltd., P.R. China, NTT DOCOMO, INC., P.R. China, Huawei Technologies Co., Ltd., P.R. China, Huawei Technologies Japan)
Lunch	***12:50***	

Session 3 PHY	14:10	*A Self-Interference Cancellation Testbed for Full-Duplex Transceiver Prototyping*; C. Zhang, L. Laughlin, M. Beach, K.A. Morri, J. Haine (University of Bristol, United Kingdom) *FQAM-FBMC Design and Its Application to Machine Type Communication*; Y. Qi, M. Tesanovic (Samsung Electronics R&D Institute UK, United Kingdom) *Waveform Performance For Asynchronous Wireless 5G Uplink Communications*; S. Wang, J. Armstrong, J. Thompson (The University of Edinburgh & School of Engineering, United Kingdom, Monash University, Australia)
NET	15:10	**Invited talk** **R. Verdone, *Moving Networks*, RadioNetworks, DEI, Università di Bologna**
Break	***15:50***	
Session 4 NET	16:20	*Numerology and Frame Structure for 5G Radio Access*; J. Vihriälä, A. Zaidi, V. Venkatasubramanian, N. He, E. Tiirola, J. Medbo, E. Lähetkangas, K. Werner, K. Pajukoski, A. Cedergren, R. Baldemair (Nokia Networks Research, Poland; Nokia, Finland; Ericsson AB & Ericsson Research, Sweden) *Energy Efficiency for Cloud-Radio Access Networks with Imperfect Channel State Information*; Bayan Al Oquibi, O. Amin, H. Dahrouj, T.Y. Al Naffouri, M.S. Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia / USA; Effat University, Saudi Arabia / Canada) *Performance Analysis of K-Tier Cellular Networks with Time-Switching Energy Harvesting*; Y. Liao, J. Zhang, Y. Zhang, M. Chen, Q. Li, T. Han (Huazhong University of Science and Technology, P.R. China) *Joint Remote Radio Head Selection and User Association in Cloud Radio Access Networks*; Aini Li, Yan Sun, Xiaodong Xu, Chunjing Yuan (Queen Mary University of London, UK,Beijing University of Posts and Telecommunication, China)
Discussion	***17:40 – 18:00***	

Organizers: Laurent Clavier, Telecom Lille, Univ. Lille, CNRS UMR 8520 - IEMN, France
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