

PLENARY I.

Algorithmic aspects of Massive MIMO

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Maxime is a principal engineer in Huawei Technologies' Mathematical and Algorithmic Sciences Laboratory in Paris, France. He previously worked at Vienna University of Technology, FTW Telecommunications Research Center Vienna, EURECOM (PhD in 2005), and Bell Labs. His Research Interests are physical layer design for wireless (in particular cellular) communication networks:

- Channel reciprocity modeling and calibration
- Efficient channel state acquisition, representation and feedback
- Coordinated beamforming in multi-user wireless systems

His research involves tools from signal processing, information theory, random matrix theory, differential geometry, stochastic geometry, Bayesian and entropy-based inference, optimization and message-passing techniques.

Experimental aspects of Massive MIMO

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Ben works in the National Instruments Academic Team consulting with Research institutes across Europe on RF & Communications projects. With an emphasis on 5G research Ben and the extended Software Defined Radio team has been enabling collaboration between NI and many leading Universities including Bristol, Dresden and Lund. Areas of particular research interest include the prototyping of Massive MIMO, mmWave, 5G Waveforms and Wireless Networks.

Ben joined National Instruments in 2008 after graduating with a degree in Electronic and Electrical Engineering from Loughborough University in the UK. He initially started in the Applications Engineering group supporting key customers in the UK and since 2010 has been working in the European Academic Team.

PLENARY II.

European research towards 5G and beyond: Policy, Research and funding opportunities.

Rémy Bayou is Research and Innovation programme and policy Officer for network technologies in DG Connect, European Commission. He coordinated the selection of current EC 5G research projects with a budget of €135 million. In the last years he has been active in defining and managing European Commission research funding in the fields of Mobile Communication and Future Internet. He was before head of the Telecom department in the French Defense Directorate for Research and Technology. He graduated from ENSTA Bretagne and Telecom Paris Tech.

IC1004 White Paper on Channel Measurements and Modeling for 5G Networks in the Frequency Bands above 6 GHz

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Professor Salous started her academic career in 1984-1988 as an Assistant Professor at Yarmouk University, Jordan. After working at Liverpool University as Research Associate, in 1989 she joined the Department of Electrical Engineering & Electronics at UMIST as a lecturer, where she was promoted to Senior Lecturer in 2000 and Reader in 2002. In 2003 she joined Durham University where she currently holds the Chair in Communication Engineering.

Her Research Interests concern Cognitive radio, Design of radio channel sounders and radar systems, Radar imaging, Radio channel characterisation for onbody and small cells at 60 GHz, Radio channel measurements above-6 GHz bands, Radio propagation studies for long range communications via slywave, Through wall radar, Wireless communications for mobile radio applications.