



University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR

Assessing the performance of 5G networks

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Aula E4

Abstract: 5G will enable a completely new set of applications which will benefit from the extreme throughput and the low latency that the new standard is promising to give to operators, advanced users and verticals. Based on technology pillars such as wider spectrum, increased spectrum efficiency and Massive MIMO, 5G will enable in fact many applications that were just waiting for a brand new concept of Radio Access and Core Network.

Guided by the extremely challenging target defined by ITU for the IMT-2020 and beyond communication systems (that is, managing 1000 times more throughput by having 100 times less power consumption), widely debated concepts such as Centralized – Radio Access Network, Network Function Virtualization and Software Defined Network will all find concrete, business proven applications in 5G networks. However, trying to meet the deadline of 2020 for the commercial exploit of such a complex mix of futuristic applications by means of a completely redesigned mobile network will need a thorough assessment of the currently developed network blocks, especially of those directly managing the radio interface.

In an end-to-end perspective, which has never been as extensive as it is now, this seminar will inform the audience about the resources, both in terms of skills and tools, that we need to master in order to make 5G a reality just tomorrow.

Bio: Luca Dell'Anna is a consultant for wireless networks technologies and Senior Business Development Manager with Prisma Telecom Testing. Since graduating with a master's degree in Electronics Engineering from the Politecnico di Milano in 1994, he has developed an extensive knowledge of radio network technologies ranging from 2G through to 5G, gaining over 20 years of experience in mobile radio network design and operations. Mr. Dell'Anna has been collaborating with Prisma Telecom Testing since 2006 in a Senior Business Development and Product Management role, also leading the development of Prisma's critical communications solutions portfolio. Since 2002 Mr. Dell'Anna has combined his consulting activity with an academic collaboration with the Politecnico di Milano and the Università di Bergamo.

Organizers

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Seminar in English

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