

Newcom# partners co-organized the COST Action IC1004 & Newcom# Training School on “Beyond 4G Networks: From Theory to Experimentation and Back”

During, 25 – 28 November 2013, CTTC, CNIT/Bologna, and UCL co-organized the COST Action IC1004 & Newcom# Training School on “Beyond 4G Networks: From Theory to Experimentation and Back”, which took place in Castelldefels, Spain.

The aim of the school was to train young researchers working in the area of B4G radio networks, with emphasis on:

- the role of experimentation as means to characterize the radio environment and test system performance in real contexts.
- the interplay between theory and experimentation, fundamental to an accurate and efficient system design.
- the relevance of a multi-disciplinary approach to research, requiring knowledge of channel, link and network aspects.

The event featured a keynote speech by Werner Mohr, Head of Research Alliances at Nokia (NSN), entitled “Research Challenges for B4G Mobile and Wireless Communications “. It also featured three parallel experimental sessions, which ran without any important issues, and high quality theoretical lectures on radio channel characterisation, localisation, and network aspects of multi-hop networks.

Researchers from Newcom# delivered the experimental sessions (led by Chiara Buratti and Carles Fernández) and also gave a significant number of the theoretical lectures (by Fabio Dovis, Nikolaos Bartzoudis, Jesus Alonso-Zarate, Claude Oestges, Florian Kaltenberger, and Roberto Verdone).

The school was attended by 64 people from 11 different countries, including the lecturers (14 people). A questionnaire was circulated among the attendees and 29 persons provided written feedback. As a brief summary of the very positive feedback that was received, the following table reports the answers to the last question, which inquired about the overall rating of the school:

| Rating | Number of people |
|---------------|-------------------------|
| Excellent | 10 |
| Very good | 10 |
| Good | 8 |
| Average | 1 |
| Bad | 0 |
| Very bad | 0 |

In the following, some pictures taken during the theoretical lectures and the lab sessions are presented:



Figure 1: Keynote speech by Dr. Werner Mohr.



Figure 2: Theoretical lecture given by Prof. Chiara Buratti.



Figure 3: Lab session on GNSS positioning systems.



Figure 4: Lab session on channel measurements and modelling.