ISSUE 4

PAINLESS

An innovative training network (ITN) on

Energy-autonomous portable access points for infrastructure-less networks

NEWSLETTER DATE
June 2020





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 812991

PAINLESS training aims to provide a structured scientific framework for the ESRs to collaboratively develop research in the area of advanced wireless distribution systems, exploiting knowledge in both scientific and soft-skills.

Our training includes both core technical skills, exposing the researcher to different technical areas, and transferable skills covering a broad range of commercial and social skills vital to enhance career prospective in both academic and non-academic sectors.

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PAINLESS RESEARCH PROJECTS' UPDATES

PAINLESS has recently conducted its second Summer School hosted by UCL in London

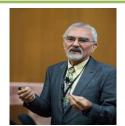
Due to the COVID19 pandemic our summer school was virtual this year and was freely open to the public.

It included several world-renowned speakers who covered state of the art in wireless communications and some of the fundamental mathematical tools underpinning it.

Our School was well received with over 200 registered attendants from cross the globe.

Please check out our video recordings on our website and on youtube!

PAINLESS Summer School Speakers



Professor Lajos Hanzo



Professor Hanzo provided a comprehensive overview on Integrated Ground-Air-Space Networking with particular focus on Aeronautical Ad-Hoc Networking (AANET) scenarios and discussed the latest results and measurements in this area.



Dr Fecerico Boccardi

Dr Fecerico Boccardi (Ofcom, UK)

Dr Boccardi focused on opportunities for innovation at the boundaries between technology and policy process.



Dr Oliver Blume

Dr Oliver Blume (Nokia Bell Labs, Germany)

Dr Blume talked about Energy efficiency in cellular networks and summarized the main findings of the Greentouch international project on green energy networks.



Dr Gunduz Deniz

Dr Gunduz Deniz, (Imperial College London, UK)

Dr Deniz provided an overview tutorial on Energy Harvesting Wireless Communication Networks in which he covered many of the fundamental concepts in this area including some of his own research results and findings.



Professor Marco di Renzo

Professor Marco di Renzo (CNRS, France)

Professor di Renzo provided two tutorials, one on the fundamentals of stochastic geometry and its application in cellular networks with focus on energy efficiency optimisation, and the second on the topic of model aided deep learning.



Dr Alvaro Valcarce

Dr Alvaro Valcarce (Nokia Bell Labs, France)

Dr Valcarce focussed on the application of machine Learning in communication systems particularly on the topic of network performance optimisation via the MAC and PHY layers.

PAINLESS Summer School Speakers

network communications.







Mr Tim Grout-Smith & Ms Lily Poberezhska, (University College of London, UK)

Dr Toni provided a tutorial on the fundamentals of artificial intelligence and machine learning within the context of intelligent

Dr Laura Toni (University College of London, UK)

Mr Grout-Smith and Ms Poberezhska provided training on how to use the general media to effectively publicise your research.

Here are some pictures from this event to share

