



greenet



Fifth Greenet Seminar



From the 2nd to the 3rd of July 2013

Module I:	Module II:
<ul style="list-style-type: none"> • Protocol Stack Development: Sources of Information • Development Tools & Environments • Methodology: Requirements and Specifications, Realization. Testing: Developer level, Case driven, Black box testing, and Continuous Integration • Development Cycle: Issues and Releases, and Support Services 	<ul style="list-style-type: none"> • Design and parameterization of network testbed infrastructures. • Heterogeneous wireless testbed for vertical handover evaluation. • Network emulation in experimental testbeds. • Traffic generation and monitoring tools. • Facilities for measuring energy consumption • Network performance metrics and analysis of experimental data. • Federated and virtualized network testbeds. • Examples of relevant experimental facilities in Europe.
<i>By:</i> Gerrit Schulte	<i>By:</i> Lambros Sarakis

Module III:	Module IV:
<ul style="list-style-type: none"> • Device Wireless Conformance ecosystem • Conformance Tests and Measurement: Principle and Solution • Functional Tests : Principle and Solution • Typical measurement scenario 	<ul style="list-style-type: none"> • OTA measurement techniques; Standardisation; • SISO and MIMO OTA performance; • OTA Test systems; • Future wireless device OTA testing.
<i>By</i> Felix Alonso	<i>By:</i> Brian Berry

Attendance fee: 90€ (VAT included)

The fee includes lunch and coffee breaks.

The event will take place in SUPELEC, Plateau du Moulon 3, rue Joliot-Curie 91192 Gif-sur-Yvette cedex, Paris. Spaces are limited so therefore to book your place **email to melani.gurdiel@tsc.upc.edu before 20th June 2013.**

What is Greenet?

Greenet is an Initial Training Network (ITN) Marie Curie project that is focused on the analysis, design, and optimization of energy efficient wireless communication systems and networks.

Via the fruitful collaboration of several leading industrial and top-level academic partners, the GREENET project aims at creating a joint Training/Research Network that is focused on the analysis, design, and optimization of energy efficient wireless communication systems and networks.



UNIVERSITÀ DEGLI STUDI DI TRENTO



THE UNIVERSITY of EDINBURGH





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Joint Seminar on

“Network Virtualization for LTE-A Networks / Energy-aware wireless networking through self-adaptation and virtualization as a tool for energy efficiency”

From the 3rd to the 4th of July 2013

Module I:	Module II:
<ul style="list-style-type: none"> • Role of abstractions in networking • Network virtualization as a tool to enable coexistence of multiple operators over the same infrastructure • Using SDN to program heterogeneous wireless access networks, ranging from WiFi to 4G and 5G networks • Energy programmable wireless networking • Virtualizing the Mobile Packet Core: Towards Light EPC • Service flexibility in the wireless cloud 	<ul style="list-style-type: none"> • Network virtualization concept • Virtualization in fixed networks applications and solutions) • Virtualization of wireless resources (requirements and approach) • Current state of the art • Challenges and future directions
By: Roberto Reggio	By: Andreas Timm-Giel

Module III:	Module IV:
<ul style="list-style-type: none"> • Separation of the control and forwarding planes in IP networks • Multi criteria policy rules defined by external applications called controllers • Virtual independent networks on the same physical infrastructure • Implementation of SDN in the wireless domain and radio specific problems related to link isolation or to channel estimation • Foster cooperation and enhance resource utilization by reducing interferences and improve security 	<ul style="list-style-type: none"> • Network Functions Virtualisation (NFV) and its role in simplifying the network functions and services • Virtualisation in 4G/LTE mobile network and decoupling of network services from the mobile infrastructure • Virtualisation and new value added services SDN and its potential role in the evolution of mobile network • Integration of OpenFlow(SDN standard communications interface) in the 4G/LTE mobile networks
By Claude Chaudet	By: Toktam Mahmoodi

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before 20th June 2013.

What is CROSSFIRE?

CROSSFIRE (unCooRdinated netWOrk StrategieS for enhanced interFerence, mobility, radio Resource, and Energy saving management in LTE-Advanced networks) is a Multi-Partner Initial Training Network (MITN) Marie Curie project that is focused on providing forward-looking solutions for Long Term Evolution-Advanced (LTE-A) network co-existence including aspects ranging from the physical layer such as co-channel interference and cognition to the user perception of the service, i.e., Quality of Experience (QoE). The project will analyze and propose network virtualization solutions for LTE-A networks, a technology which is envisioned to transform operation of cellular networks in the years to come.

What is GREENET

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