

Welcome to the EUCNC'2016 Weekly Newsletter #2

The 2nd Newsletter of EUCNC'2016 brings to you insights and updates of the European Conference on Networks and Communications 2016, which will take place in Athens, from the 27th to the 30th of June.

Welcome Message

We would like welcome you to the **25th Edition of the European Conference on Networks and Communications**, hosted in Divani Apollon Palace & Thalasso, Vouliagmeni, **Athens, Greece**. The conference will take place from **27 to 30 June 2016**. We are certain that this year again EUCNC will be **exceptional and a cornerstone event** for showing the status of research in **advanced networks and associated topics, with multiple exciting sessions, workshops**, exhibitions/demonstrations, as well as an outstanding social program.

The next generation of **communication systems**, as pursued in **5G**, will be the first instance of a truly **converged network environment**, where wired and wireless communications will use the same infrastructure, **driving the future networked society**. It will provide **virtually ubiquitous, ultra-high bandwidth, "connectivity" not only to individual users, but also to connected objects**.

5G has set very **ambitious goals**, denoting the next major phase of mobile telecommunications standards. To this end, 5G technology has begun to mature, in terms of:

- architecture,
- spectrum,
- standards
- access networks,
- virtualisation,
- management technologies,
- business aspects,
- vertical markets.

In 5G, verticals like energy, manufacturing, healthcare and automotive are envisioned as the new user space, enabling new applications, markets and businesses. The key message is that **"5G holds promise of improved performance in terms of reduced latency, increased reliability and higher throughput under higher mobility and connectivity density. We want 5G communication networks to be programmable, energy efficient, resilient and secure innovation platforms, providing tailored level of service quality end-to-end."** As we progress with the implementation of the European 5G Research, we will have extended opportunities to demonstrate with vertical sectors at scale the most demanding performance requirements of 5G.

In order to live **"the Dawn of 5G"** in the era of the global challenges of the digital age, Europe has to be ready to create and pursue opportunities focused on and centered around digital technologies, and develop a common strategy for 5G deployment. EUCNC2016 is the main venue for showcasing and getting the latest insights on European respective results.

We wish you a very fruitful and enjoyable EUCNC2016.

Welcome to Athens!

Mario Campalargo (Director for "Net Futures" in DG CONNECT, Conference General Co-Chair)
& Georgios Onopas (Director of the fixed & mobile Access Networks Department of OTE Group,GR, Opening Keynote Speaker)

EUCNC'2016 BASICS

What is EUCNC'2016 aim?

to bring together researchers from all over the world to present their latest research results & also to get the latest insights through world class papers, keynotes and panels of specialists, discussions on technology and business aspects, and to provide extended networking opportunities in the light of the forthcoming [5G PPP](#) and overall H2020 calls.

INTERVIEW



Interview with Professor [Panagiotis Demestichas](#)
(*University of Piraeus, Chair of EUCNC'2016 Local Organising Committee*)

Professor, what makes EUCNC a special (institutional) Conference?

PD: Currently EUCNC is focused on one of the hottest areas of research and development that of 5G infrastructures and services, especially regarding the serving of vertical sectors (energy, transport, manufacturing, health, media).

Even though there may be many events on 5G, EUCNC is comprehensive and has unique features. To mention few, there will be:

- Keynotes and panels from the main experts
- Presentation of the latest scientific achievements through the papers, workshops, special sessions
- Demonstration of the latest technologies through the rather extensive exhibition boots

So EUCNC is the event for someone that wants to "live the dawning of the 5G era", it is the event for learning the requirements and latest services towards the vertical industries, seeing the latest 5G technologies, and also pursuing business opportunities and networking.

How did you achieve to bring the European Conference of Networks and Communications for 2016 in Athens?

PD: Bringing EUCNC2016 to Athens was a thought that occurred to me about 3-4 years ago. One key motivation was to show that Greece, as part of the European Commission institutions, contributes to developments (5G, cloud, IoT) that have worldwide impact.

EUCNC 2016 is the 25th edition of a conference dedicated to broadband networks and communications. Each year it takes place in a different European country and city. My group, started at the [University of Piraeus](#) 14 years ago, has a long series of achievements in most of the EUCNC fields, e.g., cognitive networks, 4G and 5G wireless technologies, as well as on the Internet of Things, cloud platforms and smart services.

Likewise our [JCCS](#) coorganizers from the [National Technical University of Athens](#), and the group lead by Prof. Protonotarios (my previous affiliation also) has been, since the 90s, a very large and most successful and impacting group, paving the way for many of us.

Both groups believe that **Greece can be mostly about technology, since the basic ingredient is available: I am referring to the well-educated, rather hard-working and highly-ambitious engineers and scientists, which constitute one of Greece's most precious assets.**

In the light of these aspects we decided to participate in the bid for the organization and we were successful. We hope that the organization will be a success: (a) progressing the developments of 5G wireless infrastructures and services and keeping Europe at the forefront (in this context briefing the Greek community also); (b) showing to the world that Greece is a country that has vast ICT potential and is ICT-intensive.

Seeing where the world is heading, the key role of Europe and the contribution of Greece, I value that the participation is important also for the local scientific community, for the local ICT industry and also for the student community (enriching their skills, getting exposed to work done by Greek institutions and in Europe).

What is your personal aspiration & vision regarding the progress of EUCNC?

PD: Europe, through the support of the EC, has established a powerful research base. Moreover, Europe has a tradition of taking new concepts and research results to standards, in order to subsequently developing new products and technologies. **My aspiration and vision is to see Europe in general, and Greece in particular, as a land of quick transformation of innovations to viable products and companies that will not only startup but also scale-up.**

First steps are already done. EUCNC has a nice SME representation. I hope to see future editions host many many more of these companies.

The dawn of 5G

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EUCNC'2016 TOPICS

During the days of the Conference, the participants will have the opportunity to attend numerous [workshops](#), [tutorials](#) and special [sessions](#), while more important names are expected to complete the list of EUCNC'2016 distinguished [keynote](#) speakers.



Workshops Themes at a glance !

- 1: **International Workshop on 5G Architecture** (Organisers: Simone Redana, Nokia, Germany, Alexandros Kalokylos, Huawei ERC, Germany)
- 2a: **5G-PPP Standardization Roadmap** (Organiser: Hugo Tullberg, Ericsson, Sweden)
- 2b: **Research and Standards for Self-Managing 5G Networks** (Organisers: Diego Lopez, Telefonica, Spain, Mikhail Smirnov, Fraunhofer, Germany, Sheng Jiang, Huawei Technologies Co. Ltd, China, Laurent Ciavaglia, Nokia Bell Labs, France)
- 2c: **Network Machine Learning** (Organisers: Sheng Jiang, Huawei Technologies Co. Ltd, China, Panagiotis Demestichas, University of Piraeus, Greece)
- 3: **SGPPP Workshop on 5G Physical Layer Design and Hardware Aspects Below and Above 6 GHz** (Organisers: Frank Schaich, Alcatel-Lucent, Germany, Berna Sayrac, Orange, France, Gerhard Wunder, Heinrich Hertz Institute, Germany, Mehrdad Shariat, Samsung R&D Institute, UK, Miurel Tercero, Ericsson, Sweden, Maziar Nekovee, Samsung R&D Institute, UK, Michael Färber, Intel Deutschland, Deutschland, Tapio Rautio, VTT, Finland, Miquel Payaró, CTTC, Spain)
- 4a: **Workshop on Next generation fronthaul/backhaul integrated transport networks** (Organiser: Arturo Azcorra, University Carlos III de Madrid, Spain)
- 4b: **Towards Converged X-Haul for 5G Networks – A joint workshop of the iCirrus, 5G-XHaul and 5G-Crosshaul projects** (Organiser: Jörg-Peter Elbers, ADVA Optical Networking, Germany)
- 5a: **Operators' Workshop on Optical-Wireless Integration** (Organiser: Jorge Pereira, European Commission, DG CONNECT, Belgium)
- 5b: **Big Data for Reliable 5G Networking** (Organisers: Hans van den Berg, TNO/ University of Twente, The Netherlands, Rob van der Mei, CWI/VU University, The Netherlands)
- 6a: **Network Management, Quality of Service and Security for 5G Networks** (Organiser: Robert Mullins, Waterford Institute of Technology, Ireland)
- 6b: **Workshop on Network Function Virtualisation (NFV) and Programmable Software Networks** (Organisers: Georgios Xilouris, NCSR Demokritos, Greece, Josep Matrat, ATOS, Spain, Carlos Bernardos, Universidad Carlos III de Madrid, Spain)

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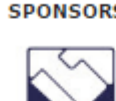
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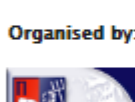
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