



Experience from Participating in Marie Skłodowska Curie Actions

Nikos Passas

Communication Networks Laboratory
Dept. of Informatics and Telecommunications
National and Kapodistrian University of Athens





MSCA Coordination Experience



FP7-ITN: Sept 2012 – Aug 2016



FP7-IAPP: Jan 2014 - Dec 2017



H2020-RISE: Jan 2016 - Dec 2019



H2020-ITN: Jan 2017 - Dec 2020





ITN: Innovative Training Networks

ITN

Innovative Training Networks

RISE

Research & Innovation Staff Exchange

COFUND

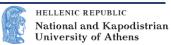
Co-financing fellowship or doctoral programmes with transnational mobility

NIGHT

European Researchers' Night

lF

Individual Fellowships



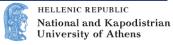




ITN: Innovative Training Networks

Quality of Research Training

- Objective: to train a new generation of creative, entrepreneurial and innovative researchers
- A Research Training Programme for Early-Stage Researchers (ESRs)
 - Less than 4 years' research experience
 - Not having a PhD
 - Mobility rule applies





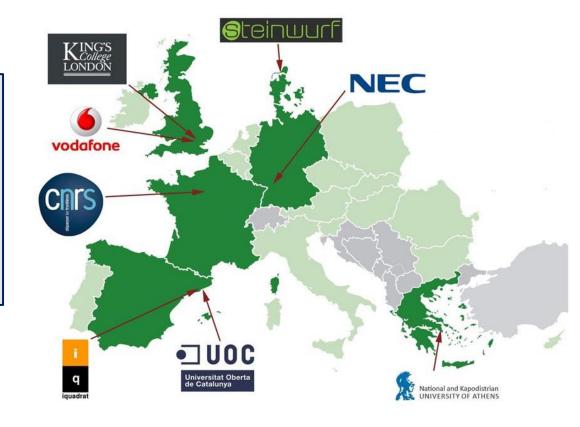


CROSSFIRE at a Glance

Duration: Sep. 2012-Aug. 2016

Funding scheme: FP7-ITN

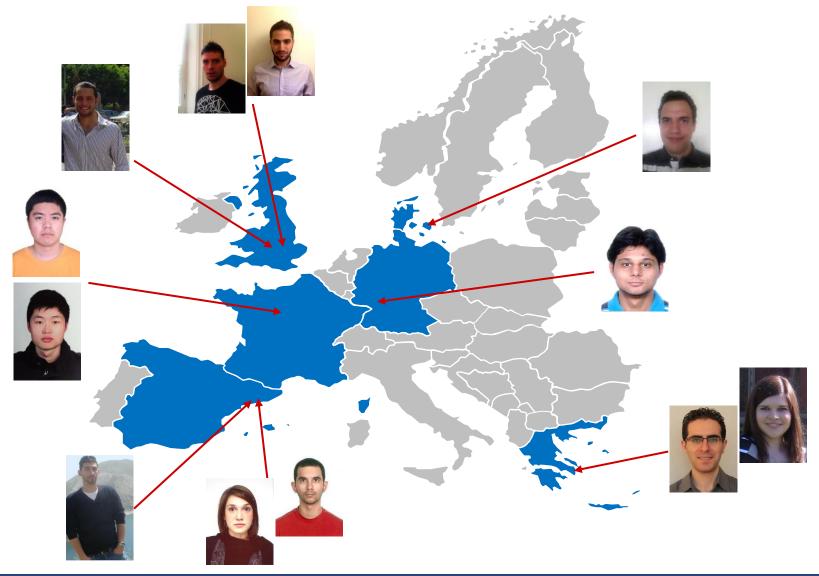
Effort: 432PM
Total Cost: €3,44M
EC Contribution: €3,44M
Contract Number: 317126





CROSSFIRE – The ESRs









CROSSFIRE Work Packages

WP#	WP Type	Work package title	Lead beneficiary	Start month	End month
WP1	RTD	Interference-Aware LTE-A Heterogeneous Wireless Networking	CNRS	M7	M48
WP2	RTD	Network Virtualization in LTE-A Networks	NEC	M7	M48
WP3	RTD	Self-Organized and Cognitive LTE-A Networks	IQU	M7	M48
WP4	RTD	Quality of Experience (QoE) in LTE-A Networks	UOA	M7	M48
WP5	TR	Training	UOC	M1	M48
WP6	MGT	Management	UOA	M1	M48
WP7	DISS/OUT	Dissemination & Outreach Activities	KCL	M1	M48





Recruitment Process

- ➤ The submission process was setup electronically (by email to mitn-crossfire@google.com)
- Each submission acknowledged, and assigned a reference number
- > The call remained open for 2 months
- > An extension was given for a few positions





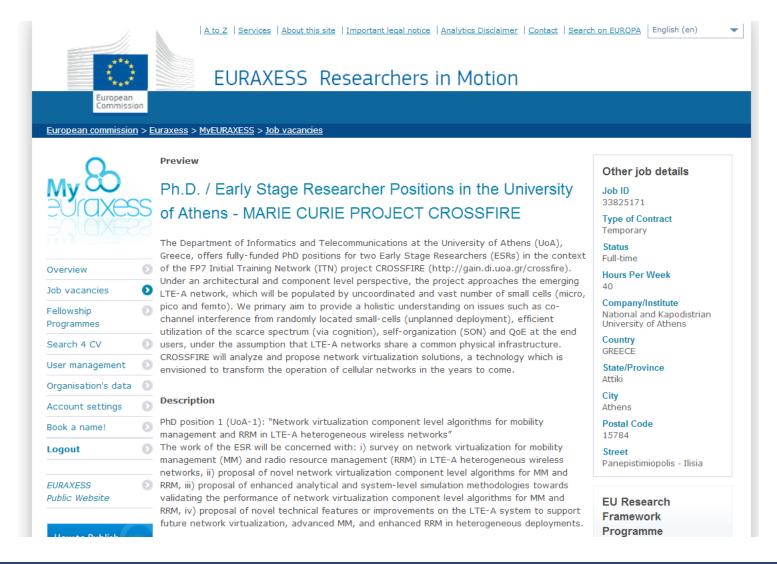
Recruitment Process

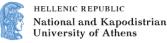
- A total of 1177 applications were received for all the institutions
- 437 unique applicants (2.69 applications per applicant)







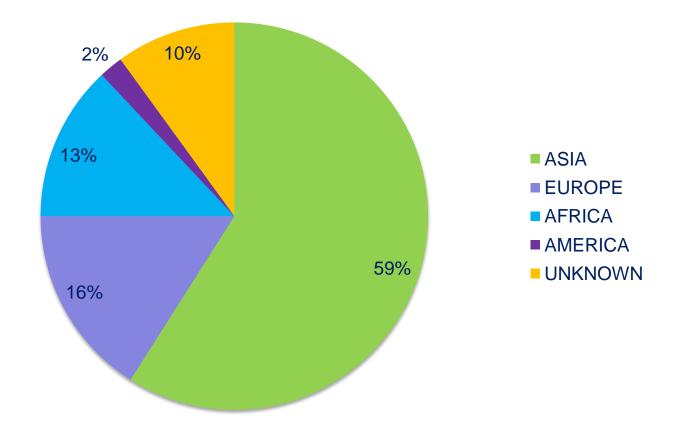








% of Applicants from Each Continent

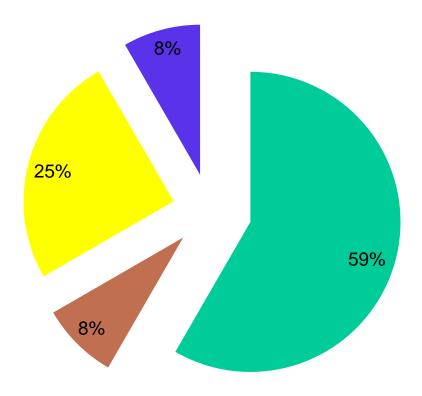






% of Recruited ESRs per Continent of Residence









Training Activities

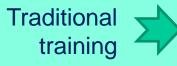




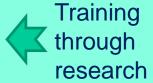
Training Programme at a glance

The ESR is placed at the centre of the training programme!











Complementary training

Secondments





Training Activities executed

- The training framework included the following activities:
 - Seminars
 - Complementary courses
 - Participation to plenary meetings
 - Local structured PhD courses
 - Co-supervision of Master Theses
 - Secondments
 - Participation to international conferences and workshops
 - Co-organizing two workshops and a final conference



Seminars



- Paris, July 3-5, 2013:
 - S1: Recent advances in mobile communications.
 - LTE/LTE-A now and in the future (C. Gruet)
 - Network coding (D. Lucani)
 - Mobility Management for Multitier Cellular Networks: Research Challenges and Modeling (D. Xenakis)
 - Massive MIMO and HetNets: Benefits and Challenges (J. Hoydis)
 - S4: Network Virtualization for LTE-A networks.
 - Refactoring Heterogeneous Mobile Networks with SDN: The Road to Network Virtualization (R. Riggio)
 - Mobile Network Virtualization (A. Timm-Giel)
 - Software Defined Networks in WLAN: Challenges and Opportunities (C. Chaudet)
 - Virtualisation and the role of OpenFlow in the Mobile Networks (T. Mahmoodi)



Seminars





Roberto Riggio on "Refactoring Heterogeneous Mobile Networks with SDN: The Road to Network Virtualization"



Nicola Baldo on "NS3 and LTE Simulation Tools"



Maria Martini on "Quality of experience measurement & management in wireless multimedia systems"



Alan Law on "Overview on small cell deployments"



David Grace on "Cognitive Green 5G Wireless Networks – How can Intelligence Save Energy?"



Lindsay Frost on "3GPP -ETSI Overview"



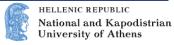




- Heidelberg, March 4-6, 2014:
 - CC1: Writing scientific papers and patents
 - Understanding Patents (V. Young)
 - Patent process (V. Young)
 - Finding/Searching for Patents (IPR Team)
 - Standards Essential Patents (J. Swetina)

CC3: Standardization

- 3GPP –ETSI Overview (L. Frost and H. van der Vreen)
- 3GPP RAN (N. Scully)
- 3GPP-SA2 Architecture (A. Kunz)
- BBF MBH and Energy Efficiency (K. Samdanis)
- SDN/ONF Overview (S. Schaller)
- IETF Overview (J. Quittek)





Complementary courses





Marco di Renzo on "Papers Submission, Review Process, Publication Impact and Plagiarism"



Aygen Kurt-Dickson on "General Tips on Winning Grants"



Hands on Presentations session



Maydo Arderiu on "Designing your Personal Marketing Plan to Find your Place in Organizations"



Veda Young on "Understanding Patents and Patent Process"



CROSSFIRE ESRs

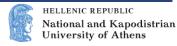
















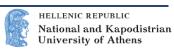


Questions to ESRs				
Q1	Overall opinion about the speaker			
Q2	Lecture has been well prepared			
Q3	Interest of the presented material			
Q4	Relevance of the presented material			
Q5	Usage of teaching aids (overheads, videos, handouts)			

Questions to speakers				
Q1	Punctuality			
Q2	Interaction			
Q3	Interest demonstrated during the presentation			
Q4	Overall opinion about the ESRs			











Evaluation results

Lectures' evaluation:

Questions	Paris	Barcelona	Heidelberg
Overall opinion about the speaker	4.3	4.7	4.3
Lecture has been well prepared	4.3	4.7	4.3
Interest of the presented material	4	4.6	4.2
Relevance of the presented material	4	4.7	4.2
Usage of teaching aids (overheads, videos, handouts)	4	4.5	3.8

 In general, speakers had a good opinion about the ESRs and appreciated their participation and interaction





Plenary meetings







Secondments

Four months per ESR in another partner (academic to industrial and vice versa)

Secondments				
UOA-1 to VOD (M28)	CNRS-1 to IQU (M25)			
UOA-2 to UOC (M32)	CNRS-2 to IQU (M33)			
KCL-1 to UOA (M30)	NEC-1 to UOA (M28)			
KCL-2 to STEIN (M25)	IQU-1 to KCL (M26)			
UOC-1 to NEC (M28)	STEIN-1 to CNRS (M26)			
UOC-2 to KCL (M32)	VOD-1 to UOC (M25)			





Secondments







Dissemination Activities





Activities executed

- Website
 - Including secure area (wiki) and public area to disseminate results
- Conference and journal publications
 - Top scientific journals, magazines and conferences (including demos)
- Standardization
 - Driven mainly by large industrial partners
- Workshops and conference organization
 - Two workshops and a final conference
- Industrial dissemination day
 - Strengthen the collaboration of ESRs with industry











First CROSSFIRE Workshop A Special Session in IEEE CloudNet2014











SS1: Network Virtualization and QoE in Future Mobile Cellular Networks

Call for Papers

Future mobile cellular networks will have to topologically encompass an increased number of smaller heterogeneous cells (micro, pico, femto), in order to support the ever increasing requirements on data rates from mobile users they. Pushing the cells closer together leads to an inevitable increase in the co-channel interference which can have a deleterious effect in the network performance if not combated adequately. To this end, it is envisioned that the complexity of network operation and management will significantly increase, posing critical threads on the performance of these emerging cellular networks. At the same time, network sustainability push the use of sharing access network infrastructure between various operators, using advanced network virtualization techniques which have to be developed based on the special characteristics of these wireless networks. Network virtualization is now emerging as one of the key technologies to allow the co-existence of multiple operators over the same infrastructure; this is a significant evolution from current network operation, but with no clear roadmap on how it will evolve over time and the way that will be applied in the scope networks. These two emerging and inter-related trends bring a set of new challenges in terms of network management. What also needs to be added is the performance of the network not only in terms of Quality of Service (QoS) that can support, but together with the overall experience that can provide to the users, the so-called Quality of Experience (QoE), including therefore human and subjective methods in the understanding of the network performance.

In this new situation, the aim of the special session is to reveal critical open issues and provide solutions towards fully virtualized and dynamic mobile cellular networks towards improved QoE. The contributions requested include but are not limited to:

- Architectural aspects for enabling dynamic network sharing via network virtualization.
- Protocols and advanced algorithms for dynamic network virtualization.
- Near optimal utilization of the available spectrum (cognition, self-organization, etc.).
- Network interference mitigation and avoidance in conjunction with QoS considerations
- Decentralized self-organization of heterogeneous networks.
- Bridging the gap between OoE and OoS.

The session is organized by the FP7 Marie Curie Initial Training Network CROSSFIRE (MITN 317126).

Important dates

Paper Submission: June 16, 2014

Notification of Acceptance: August 1, 2014

Final Paper: August 15, 2014

Submit online at EDAS website »

Session organizers

Nikos Passas

Dept. of Informatics and Telecommunications

University of Athens

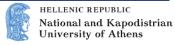
Athens, Greece

Email: passas@di.uoa.gr

Ferran Adelantado Multimedia and Telecom Department Open University of Catalonia

Barcelona, Spain

Email: ferranadelantado@uoc.edu





Second CROSSFIRE Workshop Co-organization of IEEE CAMAD 2014



TPC Co-Chairs

Nikos Passas, University of Athens, Greece George Koudouridis, Huawei, Sweden Ozgur B. Akan, Koc University, Turkey Burak Kantarci, University of Ottawa, Canada

Panels Chairs

George Kormentzas, Univeristy of of Aegean & NCSR 'D', Greece Evangelos Pallis, TEI Crete, Greece

Konstantinos Samdanis, NEC Europe Ltd, Germany

Workshop & Special Sessions Chairs

Stefano Giordano, University of Pisa, Italy Marco Di Renzo, CNRS, France Anastasios Kourtis NCSR Demokritos, Greece

Demo Chairs

Eleni Patouni, University of Athens, Greece Nikos Zotos, Future Intelligence Ltd, Greece

Publicity Chairs

Aggelos Antonopoulos, CTTC, Spain Prodromos Makris, Computer Technology Institute, Greece Joel Rodrigues, University of Beira Interior, Portugal

Awards Chairs

Fabrizio Granelli, University of Trento, Italy Nelson Fonseca, State University of Campinas, Brazil

Web Chairs

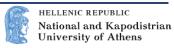
Nikos Nomikos, University of the Aegean, Greece Salvatore Costanzo, University of Athens, Greece

Publication Chairs

Dimitris Skoutas, University of the Aegean, Greece Elli Kartsakli, UPC, Spain

Local Arrangement

Nikos Nomikos, University of the Aegean, Greece
Eirini Liotou, University of Athens, Greece
Akis Kourtis, University of the Aegean, Greece
Eleni-Constantina Davri, NCSR 'Demokritos', Greece
Xenofon Foukas, NCSR 'Demokritos', Greece
Ioannis Sarrigiannis, University of the Aegean, Greece

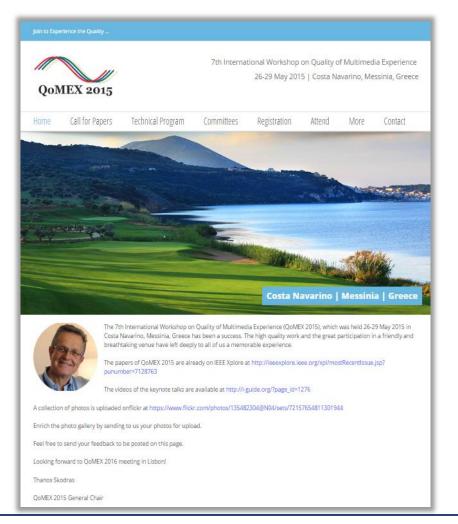




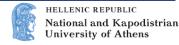
Final conference - IEEE QoMEX 2015:



Special Session on "QoE in 4G mobile networks and beyond"











Outreach Activities





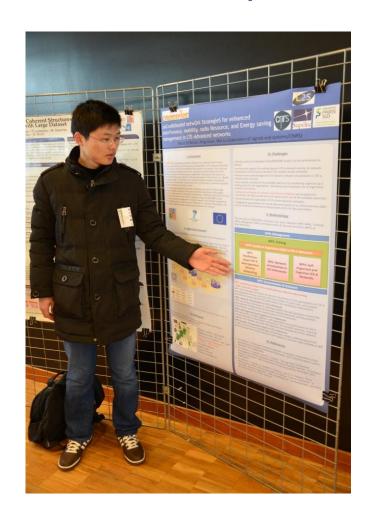
Activities executed

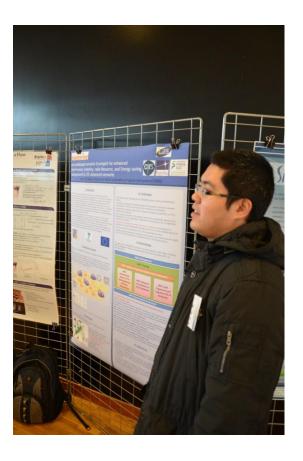
- Project open days: Separate location, public visits, tour at the labs, hands-on experience and lectures.
- **E-Newsletter:** Every 3 months including highlights of project achievements.
- Social media: Twitter and Linkedin used to allow direct access to wide audiences.
- Video clips: Two video-clips (one in the middle and one close to the end).
- Public talks: One public talk per ESR per year.





1st Open Day – Part 1 (18/01/13 Univ. Paris Sud)



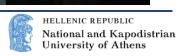






1st Open Day – Part 2 (17/04/13 Univ. Paris Sud)











Future Wise Views on 5G

The evolution towards 5G wireless networks has not only sparked strong interest from the wireless research community but also created a mass media interest as a technology which will propel and accelerate technological innovations in our every day living. 5G research is envisioned to tackle some of the most fundamental limitations of existing cellular networks, inter-alia, higher data rates, increased end-to-end performance, as well as lower latency, energy consumption and overall cost. But, and most importantly, it is also about creating seamless experience to the users by enabling personalized Quality of Experience. At the same time, we are currently witnessing novel proposed architectural frameworks in this direction that facilitate the idea of softwarization of mobile networks for faster innovation and quick roll-outs.

The aim of this half-day event is to provide strategic views on the path towards 5G networks as well as outlining key research challenges and opportunities.

Date and Venue 11th of July 2014, King's College London, Strand Campus, room S1.12, 14:00 – 17:30



KING'S College LONDON

Public Meeting supported by the *FP7 ITN-CROSSFIRE Project*

14:00-14:10 Welcome note Vasilis Friderikos, KCL 14:10-14:20 5G - Hype or Ripe?, Mischa Dohler, KCL 14:20 -14: 50 Intra-Datacentre and Inter-Datacentre Communications. Shuping Peng, University of Bristol 14:50-15:20 Information Exposure through Named Contents and Implications on Mobile Computing, Ioannis Psaras, UCL 15:20-15:50 Coffee Break 15:50-16:20 **5G: A Mobile Operator** Perspective. Hisham El Shaer, Vodafone 16:20-16:50 An Integrated Approach for Future RAN Architecture. Zainab Zaibi, Australian Fellowship, KCL 16:50 -17:10 HetNets in 5G: Architecture Evolution and Challenges, Yinan Qi, CCSR - University of Surrey 17:10 - 17:30 Overall discussions 17:30 End of Meeting



2nd Open Day (11/07/14 King's College London)











E-Newsletters





In this issue: Issue highlights

Meet the project seniors 4th plenary meeting &

complementary courses

IEEE CAMAD 2014

Public Talks

Latest news





Newsletter

August 2013

Issue Number 2

An Initial Training Network (ITN) for LTE-Advanced Networks



Newsletter May 2014 Issue Number 5

> In this issue: Issue highlights Meet the project seniors Public Talks

Publications news Upcoming events

Crossfire in social media

Aalborg Univer

Finally, CROSS

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Communication

The project's progress may be briefly characterized by the following stand-out items:

research of CROSSFIRE members have been published - All Early Stage Researchers in top journals and

- The first results of the

Below, a picture of some of the project's participants, taken inside the Supélec campus, Paris, in the frames of the 2nd CROSSFIRE plenary meeting (more information in a following section).

From left to right: Up: Marco di Renzo (CNRS), Dionysis Xenakis (UoA),

An Initial Training Netw	Upcoming events 7			
In this issue:	1	Y 1: 11: 1:		November 2013 Issue Number 3
Meet the project seniors	2	Issue highlight	CS	
Latest news 3rd plenary meeting & first complementary courses Publications news Upcoming events Crossfire in social media	3 4 5 6	This issue is released less than a month after the organization of the GROSS/RES and pleany meeting, which took place in Barcelona, on the 44-50 of November 2013. Hence this newsletter issue is mainly dedicated on information about this meeting and about the complementary courses that followed and were delivered to	- Following the previous column on "Recruitment of ESRs" of past newsletters, where all twelve ESRs had been presented, the new column "Neet the project seniors" has been created. The background of three out of nine of the project seniors is given in this 3" issue. This column will be completed after three	organized by the project and the call for contributions is already available. - Information on new publications and on previous publications recognition is also available. - The upcoming events of the project are announced.
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Issue highlights

The CROSSFIRE project has been active for almost two years, showing significant research, training and dissemination activities. Four plenary meetings have been already organized and multiple seminars and complementary courses have been delivered. while the number of published

Samdanis (NEC), Neil Scully (Vodafone) and Vasilis Friderikos (KCL).

The highlights of the 4th plenary meeting and complementary courses held in Heidelberg, Germany, between the 3rd to 6th of March, 2014, are presented. ESRs had the opportunity to learn a lot about

 $2014, the\ Inter$ An Initial Training Network (ITN) for LTE-Advanced Networks Workshop on 7



The main focus of the Early

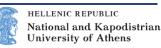
Stage Researchers during the



1 2	Issue highligh	te.	Newsletter February 2014 Issue Number 4
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Below is a graphical collection



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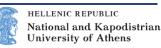
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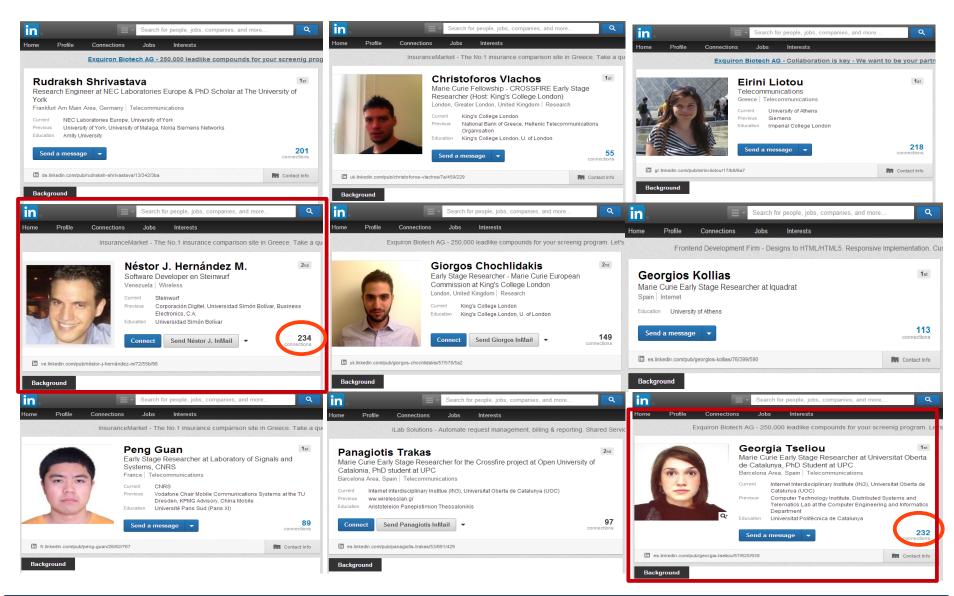


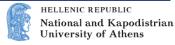
Below is a graphical collection



ESRs in Social Networks









Personal Web-pages





Faculty Members Senior Researchers (PhD) ► Anastasia Lvoizou

➤ Dimitris Tsolkas

➤ Christoforos Panos ▶ Frivos Demertris

► Eirini Liotou ► Salvatore Costanzo Co-operating Faculty Members

Short CV

Eirini Liotou received the Diploma in Electrical & Computer Engineering from the National Technical University of Athens in 2006. She obtained the MSc in New Technologies of Informatics & Telecommunications from the University of Athens, where she was ranked first in her graduating class, and the MSc in Communications & Signal Processing from the Imperial College of London.

She has significant work experience as a Software Engineer in Siemens AG and as a Senior Software Engineer in Siemens Enterprise Communications, where e worked in the R&D department for the SME business sector. She joined the UC Call Processing team. Involved in the development activities in the areas of call control features, VoIP signalling protocols and UI programming of high-end

Currently, she is working as a researcher in the Green. Adaptive and intelligen Networking Group within the Communication Networks Laboratory of the Department of Informatics & Telecommunications in the University of Athens. In parallel, she is pursuing her PhD in the area of Quality of Experience (QoE) characterization and provision in LTE-A heterogeneous networks. She speaks Greek, English, German and Spanish,

Publications list:

https://www.researchgate.net/profile/Einini Liotou/



Contact Info Phone: +30 2107275158 Email: eliotou@di uoa gr Main Menu

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Senior Researchers (PhD) Researchers Anastasia Lygizou

► Dimitris Tsolkas

► Dionysis Xenakis ► Christoforos Panos Foivos Demertzis ► Dametric Manatakis

► Salvatore Costanzo

Co-operating Faculty Recent Publications

Salvatore Costanzo

Short CV

Salvatore Costanzo received his B.Sc. in "Telematics Engineering" in 2007 and his M.Sc. (honors) in "Telecommunications Engineering" in March 2012, both from the University of Catania. Italy.

Salvatore participated in various European and Italian projects. In 2007 and 2009, he worked with the Italian National Inter-University Consortium for Telecommunications (CNIT). With CNIT he was involved in the design and implementation of network protocols for low power wireless networks within the "CRUISE" and "NEWCOM++" European projects. From April 2012 to March 2013 he worked as a developer of wireless sensor network protocols within the "Sentinella" Project at Department of Electrical; Electronics and Computer Engineering (DIEEI) of the University of Catania.

Salvatore is currently an Early Stage Researcher in the context of project CROSSFIRE and a PhD candidate in the Department of Informatics and mmunications of the University of Athens.

His research interests focus on analysis and solutions for wireless, ad-hoc and sensor networks, with a particular emphasis on network virtualization and software-defined network architectures.



Contact Info Phone: +30 210 7275137





RESEARCH PORTAL

HOME RESEARCHERS RESEARCH GROUPS RESEARCH OUTPUTS RESEARCH FUNDING INTERNAL

Mr Hisham Elshaer Research Student

Start date at Kings: 1/10/13

Supervised by Abdol-Hamid Aghvami

Mischa Dohler (Lead supervisor)

0000



Research Student

Abdol-Hamid Aghyami

RESEARCH PORTAI

HESEARCH GROUPS RESEARCH OUTPUTS RESEARCH FUNDING INTERNAL

Mr Christoforos Vlachos

Start date at Kings: 1/10/13

Informatics

Vasilis Friderikos (Lead supervisor)

0000



Electronic and Electrical Engineering



Crossfire Twitter



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CROSSFIRE

@mitncrossfire

Uncoordinated network strategies for enhanced interference, mobility, radio resource, and energy saving management in LTE-Advanced networks



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8 Photos and videos









Tweets Tweets and replies

CROSSFIRE @mitncrossfire · 2h

Follows us @mitncrossfire and visit our website mitn-crossfire.eu for the latest project news and updates! #innovation #telecom

- 6 th * .
- CROSSFIRE @mitncrossfire · May 28

NEC and Tanzania Telecommunications double mobile network capacity in key rural and island locations: nec.com/en/press/20140... via @NEC_en_pr

- 6 13 * "
- Retweeted by CROSSFIRE

 SDN News @sdn_news · May 27

SDNCentral introduces the @NEC Channel, a curated space to help educate networkers about NEC's #SDN & #NFV activities nfv.io/lioMjl1

- **13** 2
- **★1** ····
- CROSSFIRE @mitncrossfire · May 26

Is your organisation structured to make the most of SDN and NFV? | Global Telecoms Business globaltelecomsbusiness.com/article/330948...

- 4 to + ...
- CROSSFIRE @mitncrossfire · May 23

The Mid-Term Review of the project will be held on 15/7 in UOC, Barcelona. The 5th plenary meeting will be planned for the previous days.

Public Talks KCL/Vodafone

Device-to-Device communications;
Soft injection in LTE-Advanced networks
for resource-centric solutions
Christoforos Vlachos

The CROSSFIRE project and its contribution for the virtualization in LTE-A networks
Giorgos Chochlidakis

Stepping towards 5G: An operator perspective
Hisham El Shaer





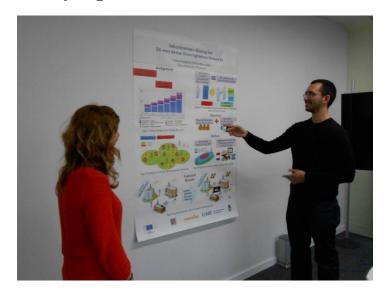


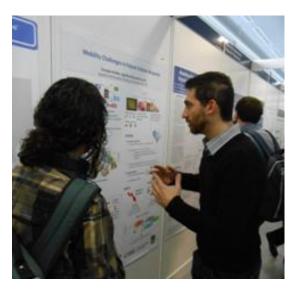
Public Talks - UOC/IQU





The Symposium was intended to disseminate the research carried out at UOC







Public Talks - UOA





Eirini Liotou

"Quality of Experience"

Salvatore Costanzo
"Network Virtualization and the evolution of networking"





Public Talk - NEC









And many unforgettable moments!

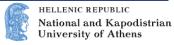






ESRs after CROSSFIRE

- Researcher at Université Pierre et Marie Curie, France
- Patent Examiner at European Patent Office, Netherlands
- Research Engineer at Huawei Technologies
- DevOps Network Planner at Sky, UK
- Senior Researcher at Vodafone Group R&D, UK
- Standardization Delegate at Fraunhofer, Germany
- Assistant Researcher at Aalborg University, Denmark
- Research Fellow, University of Athens, Greece







How to get funded

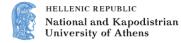
- Not a typical research project
 - Research is a tool for training
- Career development of young researchers
 - All activities should be around the ESRs
- Very competitive scheme
 - Acceptance rate 2016 <8%
- Read the call carefully, line by line
 - Don't omit anything





How to get funded

- Consortium complementarity
 - Academic, industrial, wide expertise
- Research through a common technical target
 - All ESRs working for that measurable target
- Include all means of training
 - Both direct and complementary
- Many dissemination and outreach activities
 - Part of the ESRs training
- Show the impact to the ESRs career







For more information on CROSSFIRE:

http://mitn-crossfire.eu or contact us:





"CROSSFIRE" open group



@mitncrossfire



mitn-crossfire.eu



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