Initial Training Network

CROSSFIRE

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

FP7 Contract Number: 317126

WP7 – Dissemination & Outreach Activities

Deliverable 7.1
Dissemination Plans

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## Authors

<table>
<thead>
<tr>
<th>Name</th>
<th>Organisation</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vasilis Friderikos</td>
<td>King's College London</td>
<td><a href="mailto:Vasilis.friderikos@kcl.ac.uk">Vasilis.friderikos@kcl.ac.uk</a></td>
</tr>
<tr>
<td>Nikos Passas</td>
<td>University of Athens</td>
<td><a href="mailto:passas@di.uoa.gr">passas@di.uoa.gr</a></td>
</tr>
<tr>
<td>Nizar Zorba</td>
<td>Iquadrat</td>
<td><a href="mailto:projects@iquadrat.com">projects@iquadrat.com</a></td>
</tr>
</tbody>
</table>

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Executive Summary

This aim of this deliverable is to outline in a detailed and meticulous manner the dissemination activities within CROSSFIRE project. To this end, we provide a split down of the different envisioned dissemination efforts within the project, activities that have already been undertaken over the first six (6) months of the project as well as providing a synopsis of those activities planned for the near future.
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1. Introduction

With this deliverable, we aim to illustrate the achievements so far of the CROSSFIRE ITN project, in terms of dissemination of our research vision, and then the core research ideas together with the emerging and planned outcomes, as have been captured within the initial six month of the project. Following the description of work in Annex I, we are taking a multi-channel, multi-audience approach in our dissemination activities to maximize the potential impact and benefits of the project as a whole. As this is mainly a training project of early stage in their career researchers, dissemination can be seen as a complementary but very important activity; whereas undoubtedly the central aim is training the next generation of researchers in the scope research areas of CROSSFIRE. To this end, the deliverable outlines our initial dissemination efforts, such as for example the project website, templates for reports and presentations and planned events and open days. As can be seen from the activities reported in the sequel, despite the rather early stage, and taking also into account that most of the early stage researchers (ESRs) that have been recruited have just started their work, the CROSSFIRE consortium has been actively working in the project dissemination areas.

This deliverable is organized as follows: In Section 2, which is entitled “CROSSFIRE Dissemination Plan” we outline the CROSSFIRE dissemination plans and the overall modus operandi for this work package as a whole. We also highlight its importance in the structure of the project and how it contributes to the main aims and objectives of the project. Section 3 which is entitled “Dissemination Actions”, provides a detailed exposure of the various different dissemination activities and actions that the project will focus upon during its duration. Finally, in Section 4 we conclude this deliverable.
2. CROSSFIRE Dissemination Plan

In this section, we outline the main dissemination plans as envisioned within the CROSSFIRE project. To start with, we need to stress all along the line that the selective mechanisms that will be developed within the project will be partially included in demonstration activities. These demo-based activities will be carried out in close interaction with the industrial partners in the consortium with the central aim to highlight the benefits of the CROSSFIRE research as well as providing a glimpse of future required avenues of research. Additional events, including workshops at main the main flagship IEEE international conferences will provide another vehicle of increasing overall visibility of the project and promote its core ideas. The main conferences that we will be targeting for presenting research work and attend are as follows:

- IEEE Wireless Communications and Networking Conference (WCNC), 9th of March to 12th of March 2015, New Orleans, LA, USA

- IEEE INFOCOM 2015 - IEEE Conference on Computer Communications, 26th of April to 1st of May 2015, Hong Kong

- IEEE Wireless Communications and Networking Conference (WCNC), 6th of April to 9th of April 2014, Istanbul, Turkey

- IEEE Global Communications Conference (GLOBECOM) 2014, 8th of December to 12th of December 2014, Hilton Austin Hotel, Austin, TX, USA 2014

- IEEE 80th Vehicular Technology Conference (VTC Fall), 14th of September to 17th of September 2014, Vancouver, BC, Canada

- IEEE INFOCOM 2014 - IEEE Conference on Computer Communications, 27th of April to 2nd of May 2014, Toronto, ON, Canada
Below we list a number of target journals for future publications envisioned within the duration of the project. As can be seen by the list, we are aiming solely to target high calibre journals as well as special issues that might emerge in the scope research areas (cognitive radio/networks, network virtualization, software defined networking, mobility, network and interference management in emerging and future wireless/mobile networks).

- IEEE Transactions on Mobile Computing (web page of the journal is as follows, [www.computer.org/portal/web/tmc/home](http://www.computer.org/portal/web/tmc/home))
- Computer Networks Journal, Elsevier ([www.journals.elsevier.com/computer-networks](http://www.journals.elsevier.com/computer-networks))
- EURASIP Journal on Wireless Communications and Networking ([www.jwcn.eurasipjournals.com](http://www.jwcn.eurasipjournals.com))
- IEEE Transactions on Vehicular Technology ([www.vtsociety.org](http://www.vtsociety.org))
- IEEE Network ([www.comsoc.org/netmag](http://www.comsoc.org/netmag))
- IEEE Transactions on Communications ([www.comsoc.org/tc](http://www.comsoc.org/tc))
IEEE Communications Magazine ([www.comsoc.org/commag](http://www.comsoc.org/commag))


In both these two above mentioned activities, all partners are envisioned to participate. It is also envisioned that members of the consortium to be involved in organizing special issues with emphasis in the areas of network sharing, software defined networking (SDN) and heterogeneous micro/macro cell deployment. We expect also to reach upon national publications and journals targeting individual groups within each country. This could for example be through newsletters at the University level, or local media, technical local magazines and through Web Expert Interviews (members of the consortium have already being invited in Askimo TV which is currently developing a large repository of online interviews with various experts around the world - [www.askimotv.com](http://www.askimotv.com)).

We will also extensively use external mailing lists for communication and advertisement of activities with the different user groups. Such mailing lists for example will be the Technical Committee on Computer Communications (TCCC) mailing list, which is part of the IEEE Communications Society. Also we will target the DMANET (DISCRETE MATHEMATICS AND ALGORITHMS) which is an electronic news and research network for discrete mathematics and algorithms with about 1900 members worldwide. We will also use the end2end-interest list for discussion of research and design issues that are broadly related to the end-to-end aspects of computer networking protocols and architecture. Members of the consortium will also be joining the Software Defined Networking group in LinkedIn ([www.linkedin.com](http://www.linkedin.com)) which is a subgroup of IEEE Green Communications and Computing (GCC). Members of the consortium have also a significant experience in organizing international workshops and conferences. We aim to capitalize on this expertise and organize technical workshops in conjunction with main IEEE conferences such as for example IEEE Globecom and IEEE ICC. In addition to the above, members of the CROSSFIRE are part of the ResearchGate portal ([https://www.researchgate.net](https://www.researchgate.net)) which is an excellent place for further dissemination of the research findings. It has to be noted that ResearchGate, even though it started only in 2008, it has now more...
than 3 million researchers who present themselves and make their research visible. The specific times that we plan to organize our workshops are as follows:

- Workshop 1 – Month 22
- Workshop 2 – Month 32

The above mentioned are the two main workshops that will be organized by CROSSFIRE but, as mentioned above, we expect that members of the consortium will lead or co-lead a significant number of events where specific results will be presented.

3. CROSSFIRE Dissemination Actions

3.1 Organization

3.1.1 Project Website

One of the first activities that has been undertaken in the CROSSFIRE project was to create a user-friendly website and web design to give this project a unique and outstanding web presence. The web site is available at and complies to the guidelines of the European Commission for dissemination of project results and project websites. It is available at http://mitn-crossfire.eu and its first page is shown in Figure 1.
In addition to the website, we have also developed an internal Wiki to further enhance internal communication within the project partners as well as facilitate the research work in the various workpackages in terms of deliverables, joint research papers and demonstration activities. The wiki allows such interaction since it is a space on the web where it is very easy to share work and ideas, interesting links, videos as well as other multimedia content. The CROSSFIRE wiki web-page is available at http://gain.di.uoa.gr/crosswiki and a screenshot can be seen in Figure 2 below.

**Figure 1** CROSSFIRE Website
3.1.2 Project Logo

As soon as the project officially was launched, the UOA team has created a logo for the consortium and all partners fully agreed on the constructed logo. This will be used as the brand of the project and will be utilized in all technical reports, deliverables and presentations of the project by all partners, as well as any other material related to the CROSSFIRE project. The CROSSFIRE logo picture can be seen in the Figure 3 below.

![CROSSFIRE Logo](image)

Figure 3 CROSSFIRE Logo

3.1.3 Project Leaflet

Leaflets, newsletters and video clips will be available through the CROSSFIRE website to anyone who would like to read them and download them (will be available in a number of formats such as HTML and PDF).

3.1.4 Planned internal transfer of knowledge

ESRs in different organizations have not been synchronized in terms of their starting contract time due to the idiosyncrasies of recruiting researchers in different European countries. We aim to bring in synchrony all the ESRs in terms of academic quality and collaboration in the project. To this end, during the duration of the project several meetings have already been planned with the aim of, not only organizing and
managing the project, but these meetings will also have a strong technical flavour which can be considered as an internal transfer of knowledge. These meetings will roughly take place every 3 months, starting from the kickoff meeting that took place at the University of Athens (on the 1st and 2nd of November 2012). There will be also a number of tele-conference meetings with some or all of the partners, especially in periods where a close collaboration between partners of a specific work package is required.

3.1.5 Project Deliverable Template
As shown in the figure 4 below, a deliverable template has been constructed that provides all required information for each deliverable so they can be self-contained documents with a clear notation on their content, status and availability. Figure 4 shows the Document Information, which contains all the information in one page. All the deliverables will also have the same format in terms of font type and size (in this case we have selected the Arial font type with size 12pt - this is a font type and size which is recommended also for dyslexic readers).

Figure 4 CROSSFIRE Deliverable Template
3.1.6 Project Presentation Template
A template has been created that will be used throughout the duration of the project in representing research findings internally but also in various public events, conferences, workshops etc. The template is available to all consortium partners and can be downloaded from the project Web site. The figure below shows the template that has been created for the CROSSFIRE dissemination activities.

![CROSSFIRE Presentation Template](image)

Figure 5 CROSSFIRE Presentation Template

3.1.7 E-newsletter
An electronic newsletter will be issued every 3 months following ESRs’ recruitment including topics suitable for the general public. UOA will be the editor and all partners will contribute. The newsletter will include the highlights of project achievements, with emphasis to the social impact, and will be written in a way understandable by non-experts. Being available through the Internet, and properly advertised to hit high scores in search engines’ results on relevant keywords, this newsletter is expected to provide a first good outline of the work performed in the project, together with links for further reading.

3.1.8 Video clips
Two video-clips will be created under the responsibility of UOC (one in the middle and one close to the end) with the collaboration of industrial partners, promoting the work and achievements. The clips will be professionally edited using existing experience and infrastructure of the participants, and include attractive, mainly non-
technical information on the project. They will be available through the web site and advertized through social media. Local and web TV channels will be also contacted to include the clip into their broadcast content.

### 3.1.9 Social media

Social media channels, such as Facebook, Twitter and Linkedin, will be extensively used to allow direct access to wide audiences and two-way interaction. UOA will be the coordinator in this action, while all partners will contribute, encouraging ESRs to forward announcements and initiate discussions. Being tools extremely popular to the general public, they can provide an excellent way to communicate the project’s results to the society. The obtained feedback that these channels can provide (comments, ideas, opinions) will heavily influence the direction and decisions in the project, towards a society-aware target.

### 3.2 Public Events

#### 3.2.1 Open Days

We are planning four (4) different Open Days to take place towards the middle and end of the project so that to maximize the benefits as well as the impact of the research that will be highlighted. The exact months that these Open Days will take place are as follows,

- Project Open Day 1 – Month 14
- Project Open Day 2 – Month 18
- Project Open Day 3 – Month 26
- Project Open Day 4 – Month 34

#### 3.2.2 Workshops/Conference

Two workshops and a final conference will be organized with the main objective to present a coherent and complete perspective of the achievements of the project. The workshops will be organized during the second semester of the second and third year of the project in order to give the opportunity for researchers to present comprehensive results. The final conference will be organized close to the end of the project where all the achievements (algorithms, protocols, simulators) will be presented. Particular emphasis will be given towards demonstrators of the project and the ESRs will be invited to present their achievement. This conference will be
targeted in conjunction with a popular event in the area to extend dissemination and participation.

3.2.3 Industrial Dissemination Day
An industrial dissemination day will be organized during the project. The aim of this event is to strengthen the collaboration of ESRs with industry. The ESRs will have the opportunity to meet industry representatives, to discuss the applicability of the proposed algorithms and techniques and the possibility to define their professionals’ targets. The ESRs will show the results of the project that can create important impact from the industrial point of view. It is expected that representatives of standardization bodies will be invited to the dissemination day and will give the relevant feedback to the ESRs.

3.2.4 Open days
Four open project days will be organized, at a separate location, in conjunction with a project meeting (Planned dates: M14, 18, 26, 34). CNRS, VODAFONE, NEC and IQU will be the organizers, while all partners will contribute. These full-day events will include public visits at the organizer’s premises, tour at the labs, hands-on experience and lectures. In this way, general public interested in the area (students, teachers, etc.) will have the chance to become part of the procedures followed into the premises and get an inside experience of the real work, about this project and in general.

3.3 Publications
The main conferences and journal target by the consortium have been outlined in section 2. The emphasis will be on high quality and high calibre conferences and journals to maximize the impact of the research undertaken within the project. We envision that specialized workshops in the areas of cognitive networks, network virtualization, self-organization and advanced techniques on the physical layer design towards 5G networks will emerge in the near future and the consortium will contribute to the most prestigious and significant of them especially in Europe.
3.4 Standardization Activities

With network virtualization, the vision is to enable creating on the fly multiple virtual networks which as a result can be controlled and managed over the common physical network infrastructure in an independent and autonomous manner. In such virtualized networks, there is no need to that owner of the virtual network need also to deploy or own some part of the physical equipment. This vision creates a whole new set of problems and requires significant standardization activities in order to provide a holistic working model for future wireless/cellular networks. Having said that is should be noted that standardization activities in this area are still in a rather embryonic stage. Despite that any current and emerging efforts will be closely monitored by the CROSSFIRE consortium. For example, within the routing working area of the IETF a working group has been established entitled Software Driven Networks (SDN). A draft document has been published in end of 2011 entitled “Framework for Software Defined Networks”. We will closely follow the discussions and developments within this working group with the aim to attend and influence standardization activities within its scope domain. Members of the consortium will also closely follows activities as they take place within the Open Networking Foundation – OPN (www.opennetworking.org). We will focus on question such as what is the “killer application” for SDN and what are the overall requirements especially from the wireless perspective. Industrial partners within the consortium will utilize the research undertaken to directly or indirectly influence standardization activities within the 3GPP (www.3gpp.org) in which they are actively involved. A forum which can be considered on the interface between academic and industry related to standardization is the Wireless World Research Forum (WWRF). Some of the consortium members are part of the WWRF and there will be contributions regarding WWRF activities on next generation wireless/cellular networks. In terms of issues related to interference in the envisioned move towards small cells activities including regulatory aspects of small cells and femtocells will be monitored (such as for example the Femtoforum and the Broadband Forum).
4. Conclusions

The central aim of this deliverable was to give a detailed view of the most important dissemination activities that has been undertaken by the CROSSFIRE consortium in the within the six (6) month period since the ITN-CROSSFIRE project has started. We have also detailed a road map of dissemination related activities together with key actions that will enable maximum impact of the research outcomes in the community in general (both at the academic as well as at the industrial level and beyond).
## 5. List of Acronyms

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6. References

[1] 3GPP - [www.3gpp.org](http://www.3gpp.org)


