

# WT2.5: Politecnico di Milano

## Report

Activities performed during the visit

in Politecnico di Milano, Department of Electronics and Information, Milan, Italy

period: 29.05.2016 to 4.06.2016

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### Twinning Activities Report

1. *Personal Information:*

Mr./Ms. **Omran Ayoub, Politecnico di Milano**, faculty member of **Politecnico di Milano, Department of Electronics and Information, Milan, Italy** visited

*(name of sending institution, country)*

in the period from **29.05.2016** to **04.06.2016** in **Wrocław University of Technology**

*(name of the visited institution, country)*

order to carry out research and training activities in the field of **computer network optimization**.

*(give the area)*

2. *Information about Seminar*

The seminar presentation was organized on **01.06.2016**

the date

It was entitled:

### **Energy-Efficient Caching and Content Distribution**

3. *Description of scientific activity in details*

(Please describe value added to the ENGINE project i.e. new knowledge, new skills with respect to the objectives of the project, the assigned common area of future cooperation with the partner, plans for common research, projects, publications and how it could be used in the scope of ENGINE)

During stay of Omran Ayoub in Wrocław, we discussed potential research cooperation in the following fields

- optimization of computer network with a special focus on the usage of heuristic and metaheuristic algorithms,
- energy-efficient caching and content distribution,
- virtual machine migration between data centers.
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Moreover, we started to discuss with Omran Ayoub, dr Wojciech Kmiecik and my PhD student Róża Goścień a research paper related to optimization of energy-efficient caching and content distribution in fixed-mobile convergent access-aggregation networks. In more detail, after some discussion. We plan to continue this cooperation in near future to write a research paper on this topic.

4. *Information referring to the intellectual property*: the generally binding law in this area in the visited country and procedures of patenting;

5. *Description of the procedure of cooperation between universities and SME in visited country*: how it is organized, the sources of funding, the opinions about drawbacks and strengths of existing solution.

6. Please send this report, a program of the visit and the seminar presentation in electronic version to Scientific Coordinator [halina.kwasnicka@pwr.wroc.pl](mailto:halina.kwasnicka@pwr.wroc.pl), and to the Project Office [engine@pwr.wroc.pl](mailto:engine@pwr.wroc.pl)

In this report please respond to the points 1-5 for outgoing visit and points 1-3 for incoming visit.