This project is partially funded by the European Commission under the 7th Framework Programme, Grant Agreement no. 316097

WT2.4: Delft University of Technology

Report

Activities performed during the visit

in Department of Systems and Computer Networks, Wroclaw University of Technology

period: 3-16 May 2015

author: Bartosz Krawczyk

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1 Personal Information

Mr./Ms. Patrick Dewilde, faculty member of Delft University of Technology, Delft, Netherlands visited *Department of Systems and Computer Networks, Wroclaw University of Technology*

in the period from 03.05.2015 to 16.05.2015 in

order to carry out research and training activities in the field of research on new directions in systems and circuits analysis

2 Information about Seminars

Prof. Patrick Dewilde gave two seminars:

1. Seminar entitled:

   Systems, circuits and Lagrangians

   on 06.05.2015

2. A talk about intellectual property and collaboration between academia and industry entitled:

   Models for cooperation between universities and industry, and the generation of intellectual value

   On 13.05.2015

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3 Description of scientific activities

(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)

Prof. Patrick Dewilde delivered a seminar, entitled "Systems, circuits and Lagrangians" in front of a large audience consisting of ENGINE participants and external auditors. The seminar was connected with the topic of using Lagrangians in system theory and circuit modelling . Additionally, during the stay prof. Dewilde attended several meeting with ENGINE members, during which the plans for future collaborations were established. Three main research topics were selected:

- Possibility of using a dynamic bilinear control theory to model circuits in non-stationary environments.
- Usage of soft computing and computational intelligence tools to automatize the process of monitoring the performance of complex systems and to early detect faults in circuits.
- Further exchange of knowledge regarding commercialization of research results, cooperation with industry, and industry-driven grants.

4 Information referring to the intellectual property

(the generally binding low in this area in the visited country and procedures of patenting);

The patenting procedure is governed by The Netherlands Patent Office, a department of the Netherlands Enterprise Agency.

Intellectual Property is divided into two categories:

1. Industrial property, which includes inventions (patents), trademarks, industrial designs, and geographic indications of source.
2. Copyright, which includes literary and artistic works.

The main categories of patents are as follow:

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Right		Protection
Copyright		For works of literature, art and science
Industrial Property Rights	Patent law	For new products or processes
	Trademark law	For word trademarks and pictorial trademarks
	Designs and models law	For the exterior of an implement
	Plant breeders' right	For crops
	Topographies of semiconductor products	For 'chips'

5 Description of the cooperation between universities and industry

(how it is organized in partner's organization, the sources of funding, the opinions about drawbacks and strengths of existing solution).

Currently, the Delft University of Technology carries out a large number of cooperation with industrial partners. They are conducted both in a form of direct collaboration and creation of spin-offs. Creation of spin-offs by University members is a normal procedure and is fully accepted by the directorate of the Delft University of Technology. There are several projects conducted together, financed from mixed sources. In such cases, a consortium is being created.

6 Other activities

REMARK: Apart from this information also a program of the visit and the presentation in electronic version should be given to the project office (please send all of them to Urszula.Markowska-Kaczmar@pwr.wroc.pl). Please respond to the points 1-5 for outgoing

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visit and points 1-3 for incoming visit. Point 6 is for extra activities that are not put in points 1-5.