



WT2.18a: Technical University of Dortmund

Report

Activities performed during the visit

in Wrocław, Poland

period: 23.09.2014 - 26.09.2014

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Personal Information

Mr./Ms. Prof. Dr Kristian Kersting, faculty member of **Technical University of Dortmund, Germany** visited **Wroclaw University of Technology, Poland** in the period from **23.09.2014 to 26.09.2014** in order to carry out research and training activities in the field of **Statistical Relational Learning**.

Information about Seminars

The seminar presentation was organized on **24.09.2014** and **25.09.2014**

It was entitled:

1. Graphical Models - part 1 (24.09.2014)
2. Graphical Models - part 2 (24.09.2014)
3. Statistical Relational Learning (25.09.2014)
4. Lifted Approximate Inference (25.09.2014)

The seminars has been arranged as a part of the Workshop on Advances in Machine Learning for Social Media Analysis taken in Wroclaw on 23-27.09.2014 (Task 3.5 in Engine project).

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)

New knowledge:

Prof. Kersting gave four inspiring lectures on statistical relational learning and graphical models. The lectures allowed to get to know in depth the issues related to the domain and provide a new perspective on the recently carried out research at Wrocław University of Technology.

New skills:

Thanks to Prof. Kersting's visit Engine Center's team had a chance to familiarize with specialized skills (generally mathematical foundations) required to conduct research on the graphical models and statistical relational learning.

Common area of future cooperation:

It has been agreed that further collaboration within the project will be concentrated on:

- multi-label classification
- statistical relational learning
- classification in multiplexes

Plans for common research:



It has been agreed that the collaboration will be further developed to achieve a platform for joint research activities with the team of Prof. Kersting, Prof. Lise Getoor from University of California at Santa Cruz.

Plans for joint projects:

Not decided yet.

Plans for collaboration in publications preparation:

Prof. Kersting will be a consultant of the publication on multi-label classification based on modularity based decomposition of label space to be submitted by mid October 2014 to Journal of Machine Learning Research (JMLR) or Pattern Recognition.

Information referring to the intellectual property

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

General discussion on the topics related to intellectual property in Germany. Not a subject of deep concern at current stage of collaboration. To be deepened in following joint actions.

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).

General discussion on the topics related to intellectual property in Germany. Not a subject of deep concern at current stage of collaboration. To be deepened in following joint actions.

Other activities

None.

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