



WT2.18b: *University of Granada, Spain*

Report

Activities performed during the visit

in Wrocław

period: 12.10.2015 - 17.10.2015

author: Michał Woźniak



Personal Information

Dr. Salvador Garcia, University of Granada (Spain) visited Wrocław University of Technology, Department of Systems and Computer Networks in the period from 12-10-2015 to 17-10-2015 in order to carry out research and training activities in the fields of ensemble learning and data stream classification.

Information about Seminars

Dr. Salvador Garcia had a talk entitled *Managing Monotonicity in Classification by a Pruned Random Forest* (the talk will be given during conference IDEAL 2015 (The International Conference on Intelligent Data Engineering and Automated Learning) co-organized by ENGINE.

Description of scientific activities

Additionally Dr. Garcia met with the members of the Machine Learning Group headed by Prof. Michal Wozniak. The main topic of the discussions was focusing on the presentation of the research and we also discussed about the students activities and the extension of the collaboration.

During the meetings, we reported the progress of the work on on prototype selection, ensemble learning, imbalance data classification and big data. Additionally, we discussed the original approach developed by Dr Saez (ENGINE's employee and former PhD student of Prof. Herrera), Mr. Krawczyk, and Prof. Wozniak on multi-class imbalance data classification. The work is under review in *Pattern Recognition*.

The main outcomes of the visit are as follows:

1. The progress of the common research was discussed.
2. Dr. Garcia had the talk during the events organized by ENGINE.
3. The new research topics on multiclass imbalance problem and classifier evaluation were discussed.

Information referring to the intellectual property

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

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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).

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Other activities

Additionally, we were discussing about the program of Prof. Wozniak and Mr. Krawczyk visits in Granada in 2016.

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.

