



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

Report

Activities performed during the visit

in Wrocław

period: 16.10.2015 - 17.10.2015

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Personal Information

Prof. Francisco Herrera, University of Granada (Spain) visited Wrocław University of Technology, Department of Systems and Computer Networks in the period from 16-10-2015 to 17-10-2015 in order to carry out research and training activities in the fields of ensemble learning and data stream classification. The main objective was to participate in the public defense of Mr. Krawczyk (Prof. Herrera has been his supervisor together with Prof. Wozniak)

Information about Seminars

Prof. Herrera was co-author of the following works presented during conference IDEAL 2015 (The International Conference on Intelligent Data Engineering and Automated Learning) co-organized by ENGINE: : (1) Addressing Overlapping in Classification with Imbalanced Datasets: A First Multi-Objective Approach for Feature and Instance Selection, (2) A learning Web platform based on a fuzzy linguistic recommender system to help students to learn recommendation techniques.

Description of scientific activities

Additionally Prof. Herrera met with the Prof. Michal Wozniak, Mr. Krawczyk and Dr Saez. 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. Additionally, we discussed on the progress of the work of the special issue of Information Fusion and survey on data stream analysis. We also talk about the new common workshop on nonstationary data analysis which will be organized during ICCS 2016 conference (confirmed).

The main outcomes of the visit are as follows:

1. The progress of the common research was discussed.
2. Prof. Herrera was co-author of the works presented during IDEAL.
3. Prof. Herrera invited Prof. Wozniak to have a talk during the HAIS 2017 conference.
4. The new research topics on multiclass imbalance problem, prototype selection and distributed data analysis were discussed..

Information referring to the intellectual property

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



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).

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.

