**Free participation SIKS-PhD-students in Tutorial Day on Probabilistic and Confidence Prediction in Maastricht**

**Date**: June 11, 2018

**Location**: Aula, School of Business and Economics, Maastricht University, Tongersestraat 53, 6211 LM Maastricht, The Netherlands

**Organization:** Department of Data Science and Knowledge Engineering, Maastricht University, Maastricht, The Netherlands and Computer Learning Research Centre, Royal Holloway, University of London, London, UK in cooperation with SIKS

Link: [http://www.clrc.rhul.ac.uk/copa2018/tutorials.html](https://solismail.uu.nl/owa/redir.aspx?C=xP51JbAtc2pJS8J_nEBAQmVrnQG6Hl8SsF4MomSCSIVJ9zx3ZcLVCA..&URL=http%3a%2f%2fwww.clrc.rhul.ac.uk%2fcopa2018%2ftutorials.html)

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The problem of reliable prediction in data science is to decide whether a prediction assigned to a particular case (instance) is indeed the true one. Solving this problem is important for applications that are characterized by high error costs and risks. Examples involve application in medicine, economics, education etc.

The tutorial day consists of three invited lectures that introduce several solutions to the problem of reliable prediction in the context of the conformity framework. The first lecture considers approaches to probabilistic prediction. These approaches allow estimating a probability that a prediction assigned to a particular case (instance) is correct. The second lecture considers approaches to confidence prediction. These approaches allow estimating a confidence that a prediction assigned to a particular case (instance) is correct (The confidence is defined as the probability of picking a case that is as or more contrary contrary than the case being predicted). The third lecture considers applications of reliable prediction to instance transfer. It discusses several approaches to combine/select instances from different data sets (domains).

Preliminary Program (June 11, 2018)

09:30 – 10:00 Registration

10:00 – 10:10 Opening

10:10 – 11:25 Tutorial 1: Confidence Prediction: Introduction to Conformal Prediction, by Lars Carlsson, AstraZeneca, Sweden

11:25 – 11:45 Coffee Break

11:45 – 13:00 Tutorial 2: Probabilistic Prediction: Venn-ABERS Prediction, by Paolo Toccaceli, Royal Holloway University of London, UK

13:00 - 14:00 Lunch

14:00 – 15:15 Tutorial 3: Conformal Instance Transfer, by Shuang Zhou, Chengdu University of Information Technology, China

The tutorial day will take place in the context of the 7th Symposium on Conformal and Probabilistic Prediction with Applications (COPA 2018), June 11-13, 2018, Maastricht, The Netherlands (check: [http://clrc.rhul.ac.uk/copa2018/](https://solismail.uu.nl/owa/redir.aspx?C=jWDcJ3PW0BIxISOlkOncebIG7IiMotBFjidBXIZa97NJ9zx3ZcLVCA..&URL=http%3a%2f%2fclrc.rhul.ac.uk%2fcopa2018%2f)). The lectures are followed by:

Kolmogorov's lecture of professor Vladimir Vapnik (the inventor of support vector machines). The title of the lecture is "Rethinking Statistical Learning Theory: Learning Using Statistical Invariants". The lecture will start at 16:00 in the main Aula of Maastricht University.

**Registration**

Registration fees for the Tutorial Day:

Students: 90 euro

Academic: 125 euro

Industry: 200 euro

Due to the cooperation between SIKS and the local organisation, SIKS-PhD-students can participate for free in this event. There is a fixed number of seats available and applications will be served on a first come first served basis. To register, do not contact the local organisation, but send an e-mail to office@siks.nl and inform Corine that you want to participate. All applicants will be informed as soon as possible. Deadline for this SIKS-arrangement: **June 4, 2018**