

I Seminari su “Information Technology Outlook” – Dottorato di Ricerca in Informatica e Matematica

AVVISO DI SEMINARIO



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Venerdì 22 ottobre 2021  
ore 12:00  
Sala Consiglio, 7° piano

**Semi-supervised Multi-target Prediction**

The paradigm of predictive clustering unifies the two major paradigms of predictive modeling and clustering, i.e., supervised and unsupervised learning. It has been successfully applied to solve different tasks of multi-target prediction. In this talk, I will present methods for semi-supervised learning, based on predictive clustering, that can handle both single-target and multi-target prediction problems. I will also present the results of their extensive empirical evaluation, showing that the use of unlabeled data can help to learn both more accurate and simpler (more understandable) models.

**Short bio.** Sašo Džeroski is head of the Department of Knowledge Technologies at the Jozef Stefan Institute (Ljubljana, Slovenia) and a full professor at the Jozef Stefan International Postgraduate School. He is also a visiting professor at the European Space Agency (Frascati, Italy). His research group investigates machine learning and data mining (including structured output prediction and automated modeling of dynamic systems) and their applications (in environmental sciences, incl. ecology/ecological modelling, and life sciences, incl. systems biology/systems medicine). He has participated in many international research projects and has coordinated three of them in the past. Most recently, he lead the FET Open XTrack project MAESTRA (Learning from Massive, Incompletely annotated, and Structured Data). He has been scientific and/or organizational chair of numerous international conferences, including ECML PKDD 2017, ICML 2005 and 1999, DS 2019 and 2014, MLSB 2010 and 2009, and ILP 1999 and 1997. He is currently the chair of the Slovenian Artificial Intelligence Society.