

Program IDA 2018

JADS, 's-Hertogenbosch

October 24–26, 2018

Program at a glance

IDA 2018	Wed Oct 24	Thu Oct 25	Fri Oct 26
08.55–09.00	Opening		
09.00–10.00	Keynote Luc De Raedt	Keynote Johannes Fürnkranz	Keynote Tuuli Toivonen
10.00–10.20	Coffee break	Coffee break	Coffee break
10.20–12.00	Contributed session 1: Graphs	Contributed session 4: Comparison	Contributed session 6: Exploratory
12.00–13.00	Lunch	Lunch	Lunch
13.00–15.05	Contributed session 2: Neural Networks+	Contributed session 5: NLP+	Contributed session 7: Miscellaneous
15.05–15.35	Coffee break	Coffee break	Coffee break
15.35–18.00	Contributed session 3: Classification (ends at 17:40)	Interaction session 1	Interaction session 2
evening	Reception	Banquet	?

N.B.: exact times are not fixed yet! Assignment of talks to parts of the day is unlikely to change.

Sessions in detail

Contributed session 1: Graphs

(Wednesday)

- 10.20-10.45 Maksim Koptelov, Albrecht Zimmermann and Bruno Cremilleux: *Link Prediction in Multi-Layer Networks and its Application to Drug Design*
- 10.45-11.10 Zakaria Saoud and Colin Fontaine: *Expert finding in Citizen Science platform for biodiversity monitoring via weighted PageRank algorithm*
- 11.10-11.35 Radhika Gaonkar, Maryam Tavakol and Ulf Brefeld: *MDP-based Itinerary Recommendation using Geo-Tagged Social Media*
- 11.35-12.00 Said Jabbour, Nizar Mhadhbi, Badran Raddaoui and Lakhdar Sais: *Pushing the Envelope in Overlapping Communities Detection*

Contributed session 2: Neural Networks+

(Wednesday)

- 13.00-13.25 Bas van Boven, Peter van der Putten, Anders Åström, Hakim Khalafi and Aske Plaat: *Real-Time Excavation Detection at Construction Sites using Deep Learning*
- 13.25-13.50 Christoph Doell, Sarah Donohue, Cedrik Pätz and Christian Borgelt: *Training Neural Networks to distinguish craving smokers, non-craving smokers, and non-smokers*
- 13.50-14.15 Sen Jia, Thomas Lansdall-Welfare and Nello Cristianini: *Right for the Right Reason: Training Agnostic Networks*
- 14.15-14.40 Thomas Bollen, Guillaume Leurquin and Siegfried Nijssen: *ConvoMap: Using Convolution to Order Boolean Data*
- 14.40-15.05 Leo Lahti: *Open Data Science*

Contributed session 3: Classification

(Wednesday)

- 15.35-16.00 Oliver Sampson, Christian Borgelt and Michael Berthold: *Communication-free Widened Learning of Bayesian Network Classifiers Using Hashed Fiedler Vectors*
- 16.00-16.25 Christine Sinoquet and Mekhnacha Kamel: *Random forests with latent variables to foster feature selection in the context of highly correlated variables. Illustration with a bioinformatics application.*
- 16.25-16.50 Jordan Frery, Amaury Habrard, Marc Sebban, Olivier Caelen and Liyun He-Guelton: *Online Non-Linear Gradient Boosting in Multi-Latent Spaces*
- 16.50-17.15 Patrick Winter, Christian Borgelt and Michael R. Berthold: *Learned Feature Generation for Molecules*
- 17.15-17.40 Anil Goyal, Emilie Morvant and Massih-Reza Amini: *Multiview Learning of Weighted Majority Vote by Bregman Divergence Minimization*

Contributed session 4: Comparison**(Thursday)**

- 10.20-10.45 Benjamin Strang, Peter van der Putten, Jan N. van Rijn and Frank Hutter: *Don't Rule Out Simple Models Prematurely: a Large Scale Benchmark Comparing Linear and Non-linear Classifiers in OpenML*
- 10.45-11.10 Jastin Pompeu Soares, Miriam Seoane Santos, Pedro Henriques Abreu, Hélder Araújo and João Santos: *Exploring the Effects of Data Distribution in Missing Data Imputation*
- 11.10-11.35 Adriana Fonseca Costa, Miriam Seoane Santos, Jastin Pompeu Soares and Pedro Henriques Abreu: *Missing Data Imputation via Denoising Autoencoders: the untold story*
- 11.35-12.00 Marta Mercier, Miriam Seoane Santos, Pedro Henriques Abreu, Carlos Soares, Jastin Pompeu Soares and João Santos: *Analysing the footprint of classifiers in overlapped and imbalanced contexts*

Contributed session 5: NLP+**(Thursday)**

- 13.00-13.25 Saatviga Sudhahar and Nello Cristianini: *Detecting Shifts in Public Opinion: a big data study of global news content*
- 13.25-13.50 Nouf Bindris, Saatviga Sudhahar and Nello Cristianini: *Fact Checking from Natural Text with Probabilistic Soft Logic*
- 13.50-14.15 Adam Sutton, Thomas Lansdall-Welfare and Nello Cristianini: *Biased Embeddings from Wild Data: Measuring, Understanding and Removing*
- 14.15-14.40 Babak Hosseini and Barbara Hammer: *Non-Negative Local Sparse Coding for Subspace Clustering*
- 14.40-15.05 Felix Mohr, Marcel Wever and Eyke Huellermeier: *Reduction Stumps for Multi-Class Classification*

Contributed session 6: Exploratory**(Friday)**

- 10.20-10.45 Marie Ely Piceno, José Luis Balcázar and Laura Rodríguez-Navas: *Decomposition of quantitative Gaiřman graphs as a data analysis tool*
- 10.45-11.10 Toon Van Craenendonck, Sebastijan Dumancic, Elia Van Wolputte and Hendrik Blockeel: *COBRAS: Interactive Clustering with Pairwise Queries*
- 11.10-11.35 Gust Verbruggen and Luc De Raedt: *Automatically Wrangling Spreadsheets into Machine Learning Data Formats*
- 11.35-12.00 Guillaume Metzler, Xavier Badiche, Brahim Belkasmi, Elisa Fromont, Amaury Habrard and Marc Sebban: *Tree-based Cost Sensitive Methods for Fraud Detection in Imbalanced Data*

Contributed session 7: Miscellaneous**(Friday)**

- 13.00-13.25 Alexandre Almeida, Ana Alves and Rui Gomes: *Automatic POI Matching Using an Outlier Detection Based Approach*
- 13.25-13.50 Ville Laitinen and Leo Lahti: *A hierarchical Ornstein-Uhlenbeck model for stochastic time series analysis*

Awards, spotlights, org session

13.50-14.05	Award ceremony
14.05-14.20	IDA 2019
14.20-15.00	PhD poster spotlights
15.00-15.05	Closing remarks