

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
08.00–09.00	*	*	*
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	Dinner	Drinks

* Venue is open for registration and mingling with your fellow scientists.

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: *ConvMap: 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

(Friday)

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

Evening Social Sessions

Wednesday: welcome reception @ Bolwerk

18.00-20.00 Welcome reception

The welcome reception will take place at:

Bolwerk Den Bosch Brasserie Restaurant
Sint Janssingel 18
5211 DA 's-Hertogenbosch

See <http://www.bolwerkdenbosch.nl> for details. The welcome reception will encompass light snacks¹ and as much beer, wine, soft drinks, coffee, and tea as you like. Participation is included in all registration fees.

Thursday: conference dinner @ Sitio

19.00-22.00 Conference dinner

The conference dinner will take place at:

Sitio - Steaks & Pasta
Korenbrugstraat 16
5211 EG 's-Hertogenbosch

See <https://www.sitio.nl> for details. The conference dinner will be a three-course dinner with as much beer, wine, soft drinks, coffee, and tea as you like. Participation is included in all registration fees.

Friday: farewell drinks @ TBA

After the last session is over, those of you who just can't get enough can join in for a final social event, on a spot to be announced somewhere in the city center of 's-Hertogenbosch. Location is likely to be announced in the Closing Remarks, on Friday around 15.00. Participation is not included in any registration fee.

Sessions For Invitees Only

Friday afternoon: 14.30-18.00 IDA Council meeting, room MDB 1.18

¹N.B.: unlike all other catering, these snacks are not guaranteed to satisfy any dietary requirements.