

Wednesday, September 19

08.00:08.40	Registration
08.40:09.00	Opening

09.00:10.20 - Session 1 - Learning I
Chair: Milan Studený

09.00	Learning AMP Chain Graphs under Faithfulness <i>José M. Peña</i>
09.20	The Bayesian Chow-Liu Algorithm <i>Joe Suzuki</i>
09.40	Latent Tree Copulas <i>Sergey Kirshner</i>
10.00	Learning Multivariate Regression Chain Graphs under Faithfulness <i>Dag Sonntag and José M. Peña</i>

10.20:10.50 Coffee break

10.50:11.50 - Invited talk
Chair: Manuel Gómez-Olmedo

Bayesian Networks in Neuroscience <i>Concha Bielza and Pedro Larrañaga</i>

11.50:12.00 Short break

12.00:13.20 - Session 2 - Modeling and Analysis I
Chair: Peter J.F. Lucas

12.00	Generalised Co-Variation for Sensitivity Analysis in Bayesian Networks <i>Silja Renooij</i>
12.20	An Interactive Approach for Cleaning Noisy Observations in Bayesian Networks with the Help of an Expert <i>Andrés R. Masegosa and Serafín Moral</i>
12.40	Estimation of Effect Size Posterior using Model Averaging over Bayesian Network Structures and Parameters <i>Gabor Hullam and Peter Antal</i>
13.00	Tools and Algorithms for Causally Interpreting Directed Edges in Maximal Ancestral Graphs <i>Giorgos Borboudakis, Sofia Triantafyllou and Ioannis Tsamardinos</i>

13.20:14.50 Lunch

14.50:15.50 - Session 3 - Learning II
Chair: Antonio Salmerón

14.50	Integer Linear Programming Approach to Learning Bayesian Network Structure: towards the Essential Graph <i>Milan Studený</i>
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Session 3 (cont)

15.10	Non-Informative Dirichlet Score for Learning Bayesian Networks <i>Maomi Ueno and Masaki Uto</i>
15.30	Mixtures of Bagged Markov Tree Ensembles <i>François Schnitzler, Pierre Geurts and Louis Wehenkel</i>

15.50:16.00 Short break

16.00:16.40 - Session 4 - Tools
Chair: Anders L. Madsen

16.00	ProbModelXML: a Format for Encoding Probabilistic Graphical Models <i>Manuel Arias, F. Javier Díez, Miguel Palacios-Alonso and Iñigo Bermejo</i>
16.20	A Framework for Development, Teaching and Deployment of Inference Algorithms <i>Sander Evers and Peter J.F. Lucas</i>

16.40-17.50 Coffee and poster session

20.00:21.40	Cocktail (Carmen de los Mártires)
22.00:-	Night visit to Alhambra

Thursday, September 20

08.00-09.00 Registration

09.00:10.20 - Session 5 - Class. and Clustering
Chair: Concha Bielza

09.00	Gaussian Join Tree Classifiers with Applications to Mass Spectra Classification <i>Víctor Bellón, Jesús Cerquides and Ivo Grosse</i>
09.20	Hybrid Binary-Chain Multi-Label Classifiers <i>Pablo Hernandez-Leal, Felipe Orihuela-Espina, L. Enrique Suar and Eduardo F. Morales</i>
09.40	Meta-Prediction of Semi-Naive Bayesian Network Classifiers based on Dataset Complexity Characterization <i>M. Julia Flores, José A. Gámez and Ana M. Martínez</i>
10.00	A Novel LTM-based Method for Multi-Partition Clustering <i>Tengfei Liu, Nevin L. Zhang, Kin Man Poon, Hua Liu and Yi Wang</i>

10.20:10.50 Coffee break

10.50:11.50 - Invited talk
Chair: Thomas D. Nielsen

Improving Legal Reasoning with Bayesian Networks <i>Norman Fenton</i>
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11.50:12.00 Short break

12.00:13.20 - Session 6 - Mod. and Analysis II
Chair: Silja Renooij

12.00	Qualitative Chain Graphs and their Use in Medicine <i>Martijn Lappenschaar, Arjen Hommersom and Peter J.F. Lucas</i>
12.20	Approximating the Distribution of a Sum of Log-Normal Random Variables <i>Barry R. Cobb, Rafael Rumí and Antonio Salmerón</i>
12.40	Graphical Inequality Diagnostics for Phylogenetic Trees <i>Nathaniel Shiers and Jim Q. Smith</i>
13.00	Piecewise Linear Approximations of Non-Linear Deterministic Conditionals in Continuous Bayesian Networks <i>Barry R. Cobb and Prakash P. Shenoy</i>

13.20-14.50 Lunch

14.50:16.10 - Session 7 - Applications
Chair: Philippe Leray

14.50	A Bayesian Network Model for Predicting the Outcome of in Vitro Fertilization <i>Giorgio Corani, Cristina Magli, Alessandro Giusti, Luca Gianaroli and Luca Gambardella</i>
15.10	Prediction of Coffee Rust Disease Using Bayesian Networks <i>Cora B. Pérez-Ariza, Ann E. Nicholson and M. Julia Flores</i>
15.30	Flood Damage and Influencing Factors: A Bayesian Network Perspective <i>Kristin Vogel, Carsten Riggelsen, Bruno Merz, Heidi Kreibich and Frank Scherbaum</i>
15.50	A Comparison of Popular Fertility Awareness Methods to a DBN Model of the Woman's Monthly Cycle <i>Anna Lupinska-Dubicka and Marek J. Druzdzel</i>

16.10:16.40 Coffee break

16.40:18.00 - Session 8 - Learning III
Chair: Marek J. Druzdzel

16.40	Two Optimal Strategies for Active Learning of Causal Models from Interventions <i>Alain Hauser and Peter Bühlmann</i>
17.00	Active Learning by the Naive Credal Classifier <i>Alessandro Antonucci, Giorgio Corani and Sandra Gabaglio</i>
17.20	Interactive Learning of Bayesian Networks using Open-Markov <i>Iñigo Bermejo, Jesús Oliva, F. Javier Díez and Manuel Arias</i>
17.40	A Bounded Error, Anytime, Parallel Algorithm for Exact Bayesian Network Structure Learning <i>Brandon Malone and Changhe Yuan</i>

18.00:19.20 Poster session

21.30 - Banquet dinner (Santa Paula Hotel)

Friday, September 21

08.00-09.00 Registration

09.00:10.20 - Session 9 - Learning IV
Chair: José A. Gámez

- 09.00 New Local Move Operators for Bayesian Network Structure Learning
Jimmy Vandel, Brigitte Mangin and Simon de Givry
- 09.20 Learning High-Dimensional Mixed Graphical Models with Missing Values
Inma Tur and Robert Castelo
- 09.40 Learning Mixtures of Polynomials from Data Using B-Spline Interpolation
Pedro L. López-Cruz, Concha Bielza and Pedro Larrañaga
- 10.00 Learning Mixtures of Truncated Basis Functions from Data
Helge Langseth, Thomas D. Nielsen and Antonio Salmerón

10.20:10.50 Coffee break

10.50:11.50 - Session 10 - Inference I
Chair: Barry R. Cobb

- 10.50 Inference in Hybrid Bayesian Networks with Mixtures of Truncated Basis Functions
Helge Langseth, Thomas D. Nielsen, Rafael Rumí and Antonio Salmerón
- 11.10 Tractable Inference in Hybrid Bayesian Networks with Deterministic Conditionals Using Re-Approximations
Rafael Rumí, Antonio Salmerón and Prakash P. Shenoy
- 11.30 Bayesian Network Inference with NIN-AND Tree Models
Yang Xiang

11.50:12.00 Short break

12.00:13.20 - Session 11 - Decision Making
Chair: Finn V. Jensen

- 12.00 The Same-Decision Probability: A New Tool for Decision Making
Suming Chen, Arthur Choi and Adnan Darwiche
- 12.20 Approximate Inference in Influence Diagrams Using Binary Trees
Rafael Cabañas de Paz, Manuel Gómez-Olmedo and Andrés Cano

Session 11 (cont)

- 12.40 Decision-Theoretic Troubleshooting: Hardness of Approximation
Vaclav Lín
- 13.00 Decision Analysis Networks
F. Javier Díez, Manuel Luque and Caroline König

13.20:14.50 Lunch

14.50:15.50 - Session 12 - Inference II
Chair: Jirka Vomlel

- 14.50 Probabilistic Reasoning with Temporal Indeterminacy
Maarten van der Heijden and Peter J.F. Lucas
- 15.10 Gibbs Sampling for Parsimonious Markov Models with Latent Variables
Ralf Eggeling, Pierre-Yves Bourguignon, André Gohr and Ivo Grosse
- 15.30 Gaussian Process Regression with Censored Data Using Expectation Propagation
Perry Groot and Peter J.F. Lucas

15.50:16.00 Short break

16.00:17.00 - Session 13 - Inference III
Chair: Prakash P. Shenoy

- 16.00 Computationally Efficient Probabilistic Inference with Noisy Threshold Models based on a CP Tensor Decomposition
Jirka Vomlel and Petr Tichavský
- 16.20 On the Importance of Elimination Heuristics in Lazy Propagation
Anders L. Madsen and Cory J. Butz
- 16.40 A Depth-First Search Algorithm for Optimal Triangulation of Bayesian Networks
Chao Li and Maomi Ueno

17.00:18.30 Coffee and poster session
18.30-19.30 Business meeting and closure

PGM2012 Workshop Program

Sixth European Workshop on Probabilistic Graphical Models



ETS. Ing. Informática y de Telecomunicación
 Univ. Granada
 Granada, Spain
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