

**Monday**

Registration Desk Open (11:00 - 17:30)

**12:30** Welcome

**13:00** **Argument Mining: Manual and automatic annotation of short user-generated texts** by Prof. Dr. Stede

**14:00** Joint Research Session

HS 1

**Harmony Assumptions: Extending Probability Theory for Information Retrieval** by Thomas Roelleke

**Plackett-Luce Networks for Dyad Ranking** by Dirk Schäfer and Eyke Huellermeier

**Case Representation and Similarity Assessment in the selfBACK Decision Support System** by Kerstin Bach, Tomasz Szczepanski, Agnar Aamodt, Odd Erik Gundersen and Paul Jarle Mork

**The Evolution of HyPer** by Thomas Neumann

**15:30** Coffee break

**16:00** **Amazon: A Playground for Machine Learning** by Dr. Archambeau

**17:00** **Parallel Sessions 1**

HS 1 (KDML)	HS 2 (DB)	HE 51 (WM)	HE 52 (IR)
<p><b>1. Synthesizing Invariants via Iterative Learning of Decision Trees</b> by Pranav Garg, Daniel Neider, P. Madhusudan and Dan Roth</p> <p><b>2. The Partial Weighted Set Cover Problem with Applications to Outlier Detection and Clustering</b> by Sebastian Bothe and Tamas Horvath</p> <p><b>3. k-Means Clustering via the Frank-Wolfe Algorithm</b> by Christian Bauckhage</p>	<p><b>1. Robust Query Processing in Co-Processor-accelerated Databases</b> by Sebastian Breß, Henning Funke, Jens Teubner and Volker Markl</p> <p><b>2. Visualization-Driven Data Aggregation</b> by Uwe Jugel and Zbigniew Jerzak</p> <p><b>3. SABER: Window-Based Hybrid Stream Processing for Heterogeneous Architectures</b> by Alexandros Koliouisis, Matthias Weidlich, Raul Castro Fernandez, Alexander Wolf, Paolo Costa and Peter Pietzuch</p> <p><b>4. Challenges with Continuous Deployment of NoSQL-backed Database Applications</b> by Meike Klettke, Uta Störl, Steffi Scherzinger, Stephanie Sombach and Katharina Wiech</p>	<p><b>1. Understanding online financial communities: What constitutes a valuable information exchange for users?</b> by Ann-Kathrin Hirzel, Michael Leyer, Nick Russell, Alistair Barros and Jürgen Moormann</p> <p><b>2. Knowledge Analytics For Workplace Learning</b> by Maria Anna Schett, Stefan Thalmann and Ronald K Maier</p> <p><b>3. A Reference Model for Anti-Money Laundering in the Financial Sector</b> by Felix Timm, Andrea Zasada and Felix Thiede</p> <p><b>4. Experience - the neglected success factor in enterprises?</b> by Edith Maier, Werner Bruns, Sebastian Eschenbach and Ulrich Reimer</p>	<p><b>1. Classification of German Newspaper Comments</b> by Christian Godde, Konstantina Lazaridou and Ralf Krestel</p> <p><b>2. Modern Tools for Old Content – in Search of Named Entities in a Finnish OCRed Historical Newspaper Collection 1771–1910</b> by Kimmo Kettunen, Eetu Mäkelä, Juha Kuokkala, Teemu Ruokolainen and Jyrki Niemi</p>

**18:30** Poster Session + BBQ

**Posters of all oral presentations and additional KDML-poster presentations:**

Human Categorization Learning as Inspiration for Machine Learning Algorithms  
 Network Analysis with NetworkKit – Interactive and Fast  
 Correlated Variable Selection in High-dimensional Linear Models using Dual Polytope Projection  
 Matrix Factorization for Near Real-time Geolocation Prediction in Twitter Stream  
 Sequential Modeling and Structural Anomaly Analytics in Industrial Production Environments  
 Assessing the Quality of Unstructured Data: An Initial Overview  
 Predicting video game properties with deep convolutional neural networks using screenshots  
 Applying Topic Model in Context-Aware TV Programs Recommendation

**20:00** Closing 1st Day

Tuesday				
Registration Desk Open (09:00 - 15:30)				
9:00	Algorithm Engineering for Graph Clustering by Prof. Dr. Wagner			
10:00	Coffee break			
10:30	Parallel Sessions 2			
	HS 1 (KDML)	HS 2 (DB)	HE 51 (WM)	HE 52 (IR)
	<p><b>1. Probabilistic Inference with Stochastic Discrete Clenshaw-Curtis Quadrature</b> by Nico Piatkowski</p> <p><b>2. Variable Attention and Variable Noise: Forecasting User Activity</b> by Cesar Ojeda, Kostadin Cvejovski, Rafet Sifa and Christian Bauchhage</p> <p><b>3. Mining Subgroups with Exceptional Transition Behavior</b> by Florian Lemmerich, Martin Becker, Philipp Singer, Denis Helic, Andreas Hotho and Markus Strohmaier</p>	<p><b>1. Discovering Data Transformations in Web Resources</b> by Ziawasch Abedjan</p> <p><b>2. Exploring the Application Potential of Relational Web Tables</b> by Christian Bizer</p> <p><b>3. Massively distributed BIG DATA management for Enterprises</b> by Franz Färber</p> <p><b>4. A Clustering Approach for Holistic Link Discovery</b> by Markus Nentwig, Anika Groß and Erhard Rahm</p>	<p><b>1. CAPLAN: An Accessible, Flexible and Scalable Semantification Architecture</b> by Sebastian Furth, Volker Belli, Alexander Legler, Albrecht Striffler and Joachim Baumeister</p> <p><b>2. Building an integrated CBR-Big Data Architecture based on SEASALT</b> by Kareem Amin</p> <p><b>3. BISHOP – Big Data Driven Self-Learning Support for High-performance Ontology Population</b> by Daniel Knöll, Martin Atzmueller, Constantin Rieder and Klaus-Peter Scherer</p> <p><b>4. Ontology-based Communication Architecture Within a Distributed Case-Based Retrieval System for Architectural Designs</b> by Viktor Ayzenshtadt, Klaus-Dieter Althoff, Syed Saqib Bukhari, Andreas Dengel and Ada Mikyas</p>	<p><b>1. An Interactive e-Government Question Answering System</b> by Malte Schwarzer, Jonas Düver, Danuta Ploch and Andreas Lommatzsch</p> <p><b>2. Graph n-grams for Scientific Workflow Similarity Search</b> by David Luis Wiegandt, Johannes Starlinger and Ulf Leser</p> <p><b>3. SemRes: A System for Creating and Searching Semantic Documentation for Conservators</b> by Ernesto William De Luca. SemRes</p>
12:00	Lunch			
13:00	Intelligent Enterprise by Dr. Sebastian Wiczorek			
14:00	Joint Applied Session			
	HS 1			
	<p><b>The digital transformation is just the beginning</b> by Dirk Helbing</p> <p><b>Case-Based Decision Support on Diagnosis and Maintenance in the Aircraft Domain</b> by Pascal Reuss, Klaus-Dieter Althoff and Wolfram Henkel</p> <p><b>Scalable Detection of Emerging Topics and Geo-spatial Events in Large Textual Streams</b> by Erich Schubert, Michael Weiler and Hans-Peter Kriegel</p> <p><b>Comparing contextual and non-contextual features in ANNs for movie rating prediction</b> by Ghulam Mustafa and Ingo Frommholz</p>			
15:30	Coffee break			
16:00	Community Meetings			
17:00				
17:30	Social Event + Dinner on your own			
20:00	Closing 2nd Day			

Wednesday				
Registration Desk Open (09:00 - 14:30)				
9:00	Web-Scale Domain-Specific Information Extraction by Prof. Dr. Leser			
10:00	Coffee break			
10:30	Parallel Sessions 3			
	HS 1 (KDML)	HS 2 (DB)	HE 51 (WM)	HE 52 (IR)
	<p><b>1. Is Web Content a Good Proxy for Real-Life Interaction? A Case Study Considering Online and Offline Interactions of Computer Scientists</b> by Mark Kibanov, Martin Atzmueller, Jens Illig, Christoph Scholz, Alain Barrat, Ciro Cattuto and Gerd Stumme</p> <p><b>2. Min-Hashing for Probabilistic Frequent Subtree Feature Spaces</b> by Pascal Welke, Tamas Horvath and Stefan Wrobel</p> <p><b>3. Sampling Methods for Random Subspace Domain Adaptation</b> by Christian Pöhlitz</p>	<p><b>1. Model-Driven Integration of Compression Algorithms in Column-Store Database Systems</b> by Juliana Hildebrandt, Dirk Habich and Wolfgang Lehner</p> <p><b>2. Podiumsdiskussion: Data Sciences - Ein neuer Studiengang oder nur eine (Informatik-)Vorlesung?</b> Moderated by Kai-Uwe Sattler</p>	<p><b>1. Towards a case-based reasoning approach for cloud provisioning</b> by Eric Kübler and Mirjam Minor</p> <p><b>2. Case Completion of Workflows for Process-Oriented Case-Based Reasoning</b> by Gilbert Müller and Ralph Bergmann</p> <p><b>3. SEMAFLEX - Semantic Integration of Flexible Workflow and Document Management</b> by Lisa Grumbach, Eric Rietzke, Markus Schwinn, Ralph Bergmann and Norbert Kuhn</p> <p><b>4. Ähnlichkeitsbasiertes Retrieval von BPMN-2.0-Modellen</b> by Maximilian Pfister, Florian Fuchs and Ralph Bergmann</p>	<p><b>1. Using key phrases as new queries in building</b> by Mireille Makary, Michael Oakes and Fadi Yamout</p> <p><b>2. Vereinheitlichung internationaler Bibliothekskataloge</b> by Christian Scheel, Claudia Schmitz and Ernesto William De Luca.</p>
12:00	Lunch			
13:00	Parallel Sessions 4			
	HS 1 (KDML)	HS 2 (DB)	HE 51 (WM)	
	<p><b>1. On the Evaluation of Outlier Detection: Measures, Datasets, and an Empirical Study Continued</b> by Guilherme Campos, Arthur Zimek, Jörg Sander, Ricardo Campello, Barbora Micenkova, Erich Schubert, Ira Assent and Michael E. Houle</p> <p><b>2. Scalable Inference in Dynamic Admixture Models</b> by Patrick Jähnichen, Florian Wenzel and Marius Kloft</p>	<p><b>1. From Cloud to Fog and Sunny Sensors</b> by Hannes Grunert, Martin Kasparick, Björn Butzin, Andreas Heuer and Dirk Timmermann</p> <p><b>2. MapReduce Frameworks: Comparing Hadoop and HPC by Fabian Fier, Eva Höfer and Johann-Christoph Freytag</b></p> <p><b>3. Query-driven Data Integration</b> by Peter Schwab, Andreas Wahl, Richard Lenz and Klaus Meyer-Wegener</p> <p><b>4. Finding Trees in Mountains -- Outlier Detection on Polygonal Chains</b> by Michael Singhof, Daniel Braun and Stefan Conrad</p> <p><b>5. Towards rapidly developing database-supported machine learning applications</b> by Frank Rosner and Alexander Hinneburg</p>	<p><b>1. Understanding Mathematical Expressions: An Eye-Tracking Study (Resubmission)</b> by Andrea Kohlhase and Michael Fürsich</p> <p><b>2. Linked Data City - Visualization of Linked Enterprise Data</b> by Joachim Baumeister, Sebastian Furth, Lea Roth and Volker Belli</p> <p><b>3. Approaches for Annotating Medical Documents</b> by Victor Christen, Anika Groß and Erhard Rahm</p> <p><b>4. The Reveal of Subject Analysis: A Knowledge-based Approach facilitating Semantic Search</b> by Sebastian Furth, Volker Belli and Joachim Baumeister</p> <p><b>5. Topical Video-On-Demand Recommendations based on Event Detection</b> by Tobias Dörsch and Andreas Lommatzsch</p>	
14:30	Closing 3rd Day			