

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>1. Synthesizing Invariants via Iterative Learning of Decision Trees by Pranav Garg, Daniel Neider, P. Madhusudan and Dan Roth</p> <p>2. The Partial Weighted Set Cover Problem with Applications to Outlier Detection and Clustering by Sebastian Bothe and Tamas Horvath</p> <p>3. k-Means Clustering via the Frank-Wolfe Algorithm by Christian Bauckhage</p>	<p>1. Robust Query Processing in Co-Processor-accelerated Databases by Sebastian Breß, Henning Funke, Jens Teubner and Volker Markl</p> <p>2. Visualization-Driven Data Aggregation by Uwe Jugel and Zbigniew Jerzak</p> <p>3. SABER: Window-Based Hybrid Stream Processing for Heterogeneous Architectures by Alexandros Koliouisis, Matthias Weidlich, Raul Castro Fernandez, Alexander Wolf, Paolo Costa and Peter Pietzuch</p> <p>4. Challenges with Continuous Deployment of NoSQL-backed Database Applications by Meike Klettke, Uta Störl, Steffi Scherzinger, Stephanie Sombach and Katharina Wiech</p>	<p>1. Understanding online financial communities: What constitutes a valuable information exchange for users? by Ann-Kathrin Hirzel, Michael Leyer, Nick Russell, Alistair Barros and Jürgen Moormann</p> <p>2. Knowledge Analytics For Workplace Learning by Maria Anna Schett, Stefan Thalmann and Ronald K Maier</p> <p>3. A Reference Model for Anti-Money Laundering in the Financial Sector by Felix Timm, Andrea Zasada and Felix Thiede</p> <p>4. Experience - the neglected success factor in enterprises? by Edith Maier, Werner Bruns, Sebastian Eschenbach and Ulrich Reimer</p>	<p>1. Classification of German Newspaper Comments by Christian Godde, Konstantina Lazaridou and Ralf Krestel</p> <p>2. Modern Tools for Old Content – in Search of Named Entities in a Finnish OCRed Historical Newspaper Collection 1771–1910 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>1. Probabilistic Inference with Stochastic Discrete Clenshaw-Curtis Quadrature by Nico Piatkowski</p> <p>2. Variable Attention and Variable Noise: Forecasting User Activity by Cesar Ojeda, Kostadin Cvejovski, Rafet Sifa and Christian Bauchhage</p> <p>3. Mining Subgroups with Exceptional Transition Behavior by Florian Lemmerich, Martin Becker, Philipp Singer, Denis Helic, Andreas Hotho and Markus Strohmaier</p>	<p>1. Discovering Data Transformations in Web Resources by Ziawasch Abedjan</p> <p>2. Exploring the Application Potential of Relational Web Tables by Christian Bizer</p> <p>3. Massively distributed BIG DATA management for Enterprises by Franz Färber</p> <p>4. A Clustering Approach for Holistic Link Discovery by Markus Nentwig, Anika Groß and Erhard Rahm</p>	<p>1. CAPLAN: An Accessible, Flexible and Scalable Semantification Architecture by Sebastian Furth, Volker Belli, Alexander Legler, Albrecht Striffler and Joachim Baumeister</p> <p>2. Building an integrated CBR-Big Data Architecture based on SEASALT by Kareem Amin</p> <p>3. BISHOP – Big Data Driven Self-Learning Support for High-performance Ontology Population by Daniel Knöll, Martin Atzmueller, Constantin Rieder and Klaus-Peter Scherer</p> <p>4. Ontology-based Communication Architecture Within a Distributed Case-Based Retrieval System for Architectural Designs by Viktor Ayzenshtadt, Klaus-Dieter Althoff, Syed Saqib Bukhari, Andreas Dengel and Ada Mikyas</p>	<p>1. An Interactive e-Government Question Answering System by Malte Schwarzer, Jonas Düver, Danuta Ploch and Andreas Lommatzsch</p> <p>2. Graph n-grams for Scientific Workflow Similarity Search by David Luis Wiegandt, Johannes Starlinger and Ulf Leser</p> <p>3. SemRes: A System for Creating and Searching Semantic Documentation for Conservators 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>Case-Based Decision Support on Diagnosis and Maintenance in the Aircraft Domain by Pascal Reuss, Klaus-Dieter Althoff and Wolfram Henkel</p> <p>Scalable Detection of Emerging Topics and Geo-spatial Events in Large Textual Streams by Erich Schubert, Michael Weiler and Hans-Peter Kriegel</p> <p>Comparing contextual and non-contextual features in ANNs for movie rating prediction by Ghulam Mustafa and Ingo Frommholz</p> <p>The digital transformation is just the beginning by Dirk Helbing</p>			
15:30	Coffee break			
16:00	Community Meetings			
17:00				
17:30	Social Event + Dinner on your own			

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