

Monday				
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)	
1. Probabilistic Inference with Stochastic Discrete Cieshew-Curtis Quadrature by Nico Pietkowsk	1. Discovering Data Transformations in Web Resources by Ziewisch Abedjan	1. CAPLAN: An Accessible, Flexible and Scalable Semantification Architecture by Sebastian Furth, Volker Belli, Alexander Legler, Albrecht Striffler and Joachim Baumeister	1. An Interactive e-Government Question Answering System by Malte Schwarzer, Jonas Düver, Danuta Ploch and Andreas Lommatzsch	
2. Variable Attention and Variable Noise: Forecasting User Activity by Cesar Ojeda, Kostadin Cvejok, Rafet Sifa and Christian Bauckhage	2. Exploring the Application Potential of Relational Web Tables by Christian Bizer	2. Building an Integrated CBR-Big Data Architecture based on SEASALT by Kareem Amin	2. Graph n-grams for Scientific Workflow Similarity Search by David Luis Wiegandt, Johannes Starlinger and Ulf Leser	
3. Mining Subgroups with Exceptional Transition Behavior by Florian Lemmerich, Martin Becker, Philipp Singer, Denis Helle, Andreas Hotho and Markus Strohmaier	3. Massively distributed BIG DATA management for Enterprises by Franz Färber	3. BISHOP – Big Data Driven Self-Learning Support for High-performance Ontology Population by Daniel Knöfl, Martin Atzmueller, Constantin Riederer and Klaus-Peter Scherer	3. SemRes: A System for Creating and Searching Semantic Documentation for Conservators by Ernesto William De Luca, Semkes	
	4. A Clustering Approach for Holistic Link Discovery by Markus Nentwig, Anika Groß and Erhard Rahm	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 Miliyas		
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 Roelke				
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. Archaubeau				
17:00 Parallel Sessions 1				
HS 1 (KDML)	HS 2 (DB)	HE 51 (WM)	HE 52 (IR)	
1. Synthesizing Invariants via Iterative Learning of Decision Trees by Pranav Garg, Daniel Neider, P. Madhusudan and Dan Roth	1. Robust Query Processing in Co-Processor- accelerated Databases by Sebastian Bré, Henning Funke, Jens Teubner and Volker Markl	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	1. Classification of German Newspaper Comments by Christian Godde, Konstantina Lazaridou and Ralf Krestel	
2. The Partial Weighted Set Cover Problem with Applications to Outlier Detection and Clustering by Sebastian Bothe and Tamas Horvath	2. Visualization-Driven Data Aggregation by Uwe Jugel and Zbigniew Jerzak	2. Knowledge Analytics for Workplace Learning by Maria Anna Schett, Stefan Thalmann and Ronald K. Maier	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	
3. k-Means Clustering via the Frank-Wolfe Algorithm by Christian Bauckhage	3. SABER: Window-Based Hybrid Stream Processing for Heterogeneous Architectures by Alexandros Kollias, Matthias Weidlich, Raul Castro Fernandez, Alexander Wolf, Paolo Costa and Peter Pietzuch	3. A Reference Model for Anti-Money Laundering in the Financial Sector by Felix Timm, Andrea Zasada and Felix Thiede		
	4. Challenges with Continuous Deployment of NoSQL-backed Database Applications by Mielke Klettke, Uta Störf, Steffi Scherzinger, Stephanie Sombach and Katharina Wiech	4. Experience – the neglected success factor in enterprises? by Edith Maier, Werner Bruns, Sebastian Eschenbach and Ulrich Reimer		
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				

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12:00 Lunch				
13:00 Intelligent Enterprise by Dr. Sebastian Wiecek				
14:00 Joint Applied Session				
HS 1				
The digital transformation is just the beginning by Dirk Helbing				
Case-Based Decision Support on Diagnosis and Maintenance in the Aircraft Domain by Pascal Reuss, Klaus-Dieter Althoff and Wolfram Henkel				
Scalable Detection of Emerging Topics and Geo-spatial Events in Large Textual Streams by Erich Schubert, Michael Weiler and Hans-Peter Kriegel				
Comparing contextual and non-contextual features in ANNs for movie rating prediction by Ghulam Mustafa and Ingo Frommholz				
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)	
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	1. Model-Driven Integration of Compression Algorithms in Column-Store Database Systems by Juliana Hildebrandt, Dirk Habich and Wolfgang Lehner	1. Towards a case-based reasoning approach for cloud provisioning by Eric Köber and Mirjam Minor	1. Using key phrases as new queries in building by Mireille Mokary, Michael Oakes and Fadi Yamout	
2. Min-Hashing for Probabilistic Frequent Subtree Feature Spaces by Pascal Welke, Tamas Horvath and Stefan Wrobel	2. Podlumsdiskussion: Data Sciences - Ein neuer Studiengang oder nur eine Informatik-Vorlesung? Moderated by Kai-Uwe Sattler	2. Case Completion of Workflows for Process- Oriented Case-Based Reasoning by Gilbert Müller and Ralph Bergmann	2. Vereinheitlichung internationaler Bibliothekskataloge by Christian Scheel, Claudia Schmitz and Ernesto William De Luca.	
3. Sampling Methods for Random Subspace Domain Adaptation by Christian Pölitcz		3. SEMAFLEX - Semantic Integration of Flexible Workflow and Document Management by Lisa Grumbach, Eric Rietzke, Markus Schwinn, Ralph Bergmann and Norbert Kuhn	4. Ähnlichkeitsbasiertes Retrieval von BPMN-2.0- Modellen by Maximilian Pfister, Florian Fuchs and Ralph Bergmann	
12:00 Lunch				
13:00 Parallel Sessions 4				
HS 1 (KDML)	HS 2 (DB)	HE 51 (WM)		
1. On the Evaluation of Outlier Detection: Measures, Datasets, and an Empirical Study Continued by Guilherme Campos, Arthur Zimek, Jörg Sander, Ricardo Campello, Barbara Micenková, Erich Schubert, Ira Assent and Michael E. Houle	1. From Cloud to Fog and Sunny Sensors by Hannes Grunert, Martin Kasparick, Björn Butzin, Andreas Heuer and Dirk Timmermann	1. Understanding Mathematical Expressions: An Eye-Tracking Study (Resubmission) by Andrea Kohlhase and Michael Fürsich		
2. Scalable Inference in Dynamic Admixture Models by Patrick Jähnichen, Florian Wenzel and Marius Kloft	2. MapReduce Frameworks: Comparing Hadoop and HPC by Fabian Fier, Eva Höfer and Johann- Christoph Freytag	2. Linked Data City - Visualization of Linked Enterprise Data by Joachim Baumeister, Sebastian Furth, Lea Roth and Volker Belli		
	3. Query-driven Data Integration by Peter Schwab, Andreas Wahl, Richard Lenz and Klaus Meyer- Wegener	3. Approaches for Annotating Medical Documents by Victor Christen, Anika Groß and Erhard Rahm		
	4. Finding Trees in Mountains – Outlier Detection on Polygonal Chains by Michael Singhof, Daniel Braun and Stefan Corrad	4. The Review of Subject Analysis: A Knowledge- based Approach facilitating Semantic Search by Sebastian Furth, Volker Belli and Joachim Baumeister		
	5. Towards rapidly developing database- supported machine learning applications by Frank Rosner and Alexander Hinneburg	5. Topical Video-On-Demand Recommendations based on Event Detection by Tobias Dörsch and Andreas Lommatzsch		
14:30 Closing 3rd Day				
20:00 Closing 2nd Day				