Philipps Universität Marburg

LWDA 2023
(Lernen, Wissen, Daten, Analysen)

Oktober, 09-11, 2023
Marburg

Program

time	Monday				
	KDML	**FGDB**	**FGWM**	**FGIR**	**BIA**
13:30 to 14:00	**Welcome**				
14:00 to 15:00	**Keynote (Room +3/0050, 3rd floor)** **Prof. Dr. Hannes Mühleisen** (Co-Founder and CEO at DuckDB Labs): *Two Tier Architectures are Anachronistic - In-Process Analytical Data Management with DuckDB*				
15:00	**Coffee break (Room +2/0050, 2nd floor)**				
15:30 to 17:30	**Joint Research Session (Room +3/0050, 3rd floor)** **KDML – S. Hachmeier and R. Jäschke**: Cover Song Identification in Practice with Multimodal Co-Training **WM – A. Korger and J. Baumeister:** Case-Based Sample Generation using Multi-Armed Bandits **KDML – J. Omeliyanenko, A. Zehe, A. Hotho and D. Schlör:** CapsKG: Enabling Continual Knowledge Integration in Language Models for Automatic Knowledge Graph Completion **IR – J. Weidmann, L. Dumani and R. Schenkel:** CLEARNESS: Coreference Resolution for Generating and Ranking Arguments Extracted from Debate Portals for Queries				
17:30 to 18:30	**free time** this timeframe is blocked for your hotel check-ins; in the meanwhile, the poster session is set up				
18:30 to 20:00	**Poster Session (Room +2/0050, 2nd floor)**				

time	Tuesday				
	KDML	**FGDB**	**FGWM**	**FGIR**	**BIA**
09:00 to 10:00	**Keynote (Room +3/0050, 3rd floor)** **Prof. Dr. Erhard Rahm** (University of Leipzig): *Data integration for Knowledge Graphs*				
10:00	**Coffee Break (Room +2/0050, 2nd floor)**				
10:30 to 12:00	**KDML1** **(Room +3/0050, 3rd floor)** **T. Koopmann, J. Pfister, A. Markus, A. Carolus, C. Wienrich and A. Hotho:** Higher-Order DeepTrails: Unified Approach to *Trails **L. Lenssen, N. Strahmann and E. Schubert:** Fast k-Nearest-Neighbor-Consistent Clustering **A. Schliebitz, H. Tapken and M. Atzmueller:** Preprocessing Ground-Based Hyperspectral Image Data for Improving CNN-based Classification **P. Haritz and T. Liebig:** Free-Energy Advantage Functions for Policy Transfer to Noisy Environments with Safety Constraints **A. Saadallah and M. Jakobs:** Online Deep Hybrid Ensemble Learning for Time Series Forecasting **M. Bunse and L. Pfahler:** Class-Conditional Label Noise in Astroparticle Physics	**DB 1** **(Room +1/0010, 1st floor)** **M. Poppinga, J. Graef, K. Diedrich, M. Rarey and N. Ritter:** Database and Workflow Optimizations for Spatial-Geometric Queries in GeoMine **M. Langohr, T. Vogler and K. Meyer-Wegener:** SKYSHARK: A Benchmark with Real-world Data for Line-rate Stream Processing with FPGAs **C. Wangmo and L. Wiese:** SuMExplorer: Summarisation-based Frequent Subgraph Mining for Visual Exploratory Subgraph Searching **Session Chair:** Ralf Schenkel	**WM 1** **(Room +3/0010, 3rd floor)** **V. Eisenstadt, J. Bielski, C. Langenhan, K. D. Althoff and A. Dengel:** A Feature-wise Comparative Assessment of the CBR-based Methodologies FLEA and SEASALT **M. Nadeem, J. Zenkert, L. Bender, C. Weber and M. Fathi:** KIRETT: Knowledge-Graph-Based Smart Treatment Assistant for Intelligent Rescue Operations **J. Baumeister and V. Roß:** SKOS-Utils: Developing and Checking SKOS Knowledge Graphs (Tool Presentation) **Session Chair:** Jakob Schönborn	**IR 1** **(Room +1/0050, 1st floor)** **M. Fröbe, J. H. Reimer, S. MacAvaney, N. Deckers, S. Reich, J. Bevendorff, B. Stein, M. Hagen and M. Potthast:** The Information Retrieval Experiment Platform **S. Diem and T. Mandl:** Automatic Classification of Portraits: Application of Transformer and CNN Based Models for an Art Historic Dataset **L. Martin and A. Henrich:** A Testbed for Dual-Entity Knowledge Panels **T. Hirmer, M. Ochs and A. Henrich:** Vertical Search Scenarios within a Digital Study Planning Assistant **Session Chair:** Andreas Henrich	**BIA 1** /
12:00 to 13:00	**Lunch (Room +2/0050, 2nd floor)**				

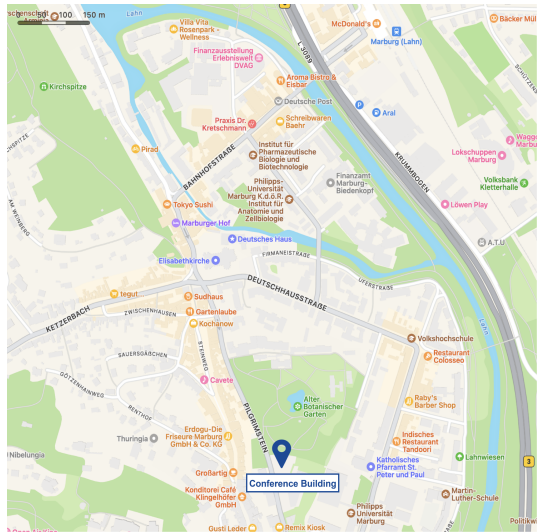| 13:00 to 14:30	**Joint Research Session 2 (Room +3/0050, 3rd floor)** **KDML – A. Beer, A. Draganov, E. Hohma, P. Jahn, C. M.M. Frey and I. Assent:** Connecting the Dots — Density-Connectivity Distance unifies DBSCAN, k-Center and Spectral Clustering **DB – C. Großmann and J. Schildgen:** Integrating Machine Learning into SQL with Exasol **BIA – M. Holtkemper, M. Potanin, A. Oberst and C. Beecks:** Risk Identification of Data Science Projects: A Literature Review
14:30 to 15:30	**Panel Discussion (Room +3/0050, 3rd floor)**
15:30	**Coffee Break (Room +2/0050, 2nd floor)**
16:00 to 17:00	**Community Meetings** (**KDML:** Room +3/0050, 3rd floor; **DB:** Room +1/0010, 1st floor; **WM:** Room +3/0010**; IR:** Room +1/0050, 1st floor; **BIA:** Room +2/0050, 2nd floor)
17:30 to 20:00	**Social Event – Marburg by night** City Tour through Marburg, meeting is at 17:30 at the fountain on the market square. Followed by a self organised dinner.

time	Wednesday				
	KDML	**DB**	**WM**	**IR**	**BIA**
09:00 to 10:00	**Keynote (Room +3/0050, 3rd floor)** **Prof. Dr. Michael Granitzer** (University of Passau): OpenWebSearch.eu - Building an Open Web Index for an open web search ecosystem **Moderation:** Christin Seifert				
10:00	**Coffee Break**				

10:30 to 12:00	KDML 2 (Room +3/0050, 3rd floor)	DB 2 (Room +1/0010, 1st floor)	WM 2 (Room +3/0010, 3rd floor)	IR2 (Room +1/0050, 1st floor)	BIA2 (Room +2/0050, 2nd floor)
	P. Janetzky, P. Lissmann, A. Hotho and A. Krause: Automatic Speech Detection on a Smart Beehive's Raspberry Pi	**A. Grünhagen, M. Schütte, A. Eichler, M. Tropmann-Frick and G. Fey:** Enhancing Data Acquisition and Fault Analysis for Large-Scale Facilities: A Case Study on the Laser-Based Synchronization System at the European X-Ray Free-Electron Laser	**A. Lommatzsch, B. O. L. Kurps, S. A. M. Tahir, V. S. Rosenberg, M. N. Walny and H. D. Boyadzhiev:** Combing an Information Retrieval and Large Language Models for a Chatbot that Generates Reliable, natural-style Answers	**M. Bertram, J. Schäfer and T. Mandl:** Hate Speech Collections for German and their Features	**T. C. Schelhorn, J. Gunklach and A. Mädche:** Designing an Analytical Control Chart System with ML-predicted Quality Characteristics
	J. Hanselle, J. Kornowicz, S. Heid, K. Thommes and E. Hüllermeier: Comparing Humans and Algorithms in Feature Ranking: A Case-Study in the Medical Domain	**M. L. Möller, D. Hausler, S. Strasser, T. Auge and M. Klettke:** Heterogeneity in NoSQL Databases: Challenges of Handling schema-less Data	**T. Alby:** The Data Dilemma: Google Analytics' Untapped Potential and Web Data Literacy	**P. Schaer, S. Myshkina and J. Keller:** Scientometric Analysis of German IR Researchers between 2020 and 2023	**B. Augenstein and D. Salaj:** Exploiting Foundation Models for Spoken Language Identification
	F. Barth, L. Weber-Genzel and U. Leser: Biomedical Event Extraction with Generative Language Models	**S. Langenecker, C. Sturm, C. Schalles and C. Binnig:** Pythagoras: Semantic Type Detection of Numerical Data Using Graph Neural Networks	**W. Müller and M. Leyer:** Bridging the Gap: Examining the trust dimensions of smart contracts using supply chain applications	**M. Bullin and A. Henrich:** Applied Face Recognition in the Humanities	**P. Herbst and H. Baars:** Accelerating literature screening for systematic literature reviews with Large Language Models – development, application, and a first evaluation
	M. Schaller, M. Steininger, A. Dulny, D. Schlör and A. Hotho: Liquor-HGNN: A heterogeneous graph neural network for leakage detection in water distribution networks	**Session Chair:** Maximilian Schüle	**Session Chair:** Johannes Baumeister	**Session Chair:** Ralf Schenkel	
	B. Böing, S. Klüttermann and E. Müller: Post-Robustifying Deep Anomaly Detection Ensembles by Model Selection				
	B. Tödtli, S. Müller, M. Rickenmann, J. Vetsch and S. Haug: A Document Tagging Support System for Nursing Care Experts				

12:00 to 13:00	**Lunch**				
13:00 to 14:30	**KDML3 (Room +3/0050, 3rd floor)** **S. Mücke and T. Gerlach:** Efficient Light Source Placement using Quantum Computing **J. Brandt, E. Schede, S. Sharma, V. Bengs, E. Huellermeier and K. Tierney:** Contextual Preselection Methods in Pool-based Realtime Algorithm Configuration **F. Siepe, P. Wenig and T. Papenbrock:** A Few Models to Rule Them All: Aggregating Machine Learning Models **S. Müller, V. Toborek, K. Beckh, M. Jakobs, C. Bauckhage and P. Welke:** An Empirical Evaluation of the Rashomon Effect in Explainable Machine Learning **J. Tritscher, M. Wolf, A. Hotho and D. Schlör:** Evaluating feature relevance XAI in network intrusion detection **V. Toborek, M. Busch, M. Boßert, C. Bauckhage and P. Welke:** A New Aligned Simple German Corpus	DB3 /	**WM3 (Room +3/0010, 3rd floor)** **M. Mauri, Ö. I. Erduran, M. Minor and T. P. D. An:** Integrating BDI Agents with the MATSim Traffic Simulation for Autonomous Mobility on Demand **M. Krüger:** Comparative Analysis of Text-Based CBR Algorithms for Cybercrime Profiling Investigations **Session Chair:** Pascal Reuss	IR3 /	**BIA3 (Room +2/0050, 2nd floor)** **M. Werling, P. Weber and H. Lasi:** Datengenossenschaften als Datentreuhänder – Eine qualitative Analyse von Pilotprojekten **J. Lachenmaier, M. Werling and D. Morar:** Governance of Artificial Intelligence – A Framework Towards Ethical AI Applications
14:30 to 15:30	**Keynote (Room +3/0050, 3rd floor)** **Dr. Dietrich Alexander Herberg:** The crucial last mile: mastering the art of successful implementation				
15:30 to 16:00	**Closing**				

Location & Room Plan

The LWDA - conference takes place at the **Campus Firmanei** of the University of Marburg (Pilgrimstein 12). The conference rooms are located on different levels of the building. Room +1/0010 and room +1/0050 are on the 1st floor, room +2/0050 is on the 2nd floor and room +3/0050 and room +3/0010 are on the 3rd floor. The cloakroom is situated on the ground floor in room 0/0100. You can find a detailed plan of the rooms on each level of the building next to the stairs.

Social Event – Marburg by night

The social event will be a city tour through the city of Marburg. Meeting for the tour will be on Tuesday, at 17:30 at the fountain on the market square (**Address: Markt 12, 35037 Marburg**). The walk from the conference to the meeting point will be around 10 minutes.

Restaurants in Marburg

For the self-organised dinner after the city tour, we would like to provide you with a short list of popular restaurants.

Restaurant Ratsschänke
Markt 3, 35037 Marburg
Traditional german

Edlunds
Markt 15, 35037 Marburg
European, Swedish

5 Jahreszeiten
Reitgasse 5, 35037 Marburg
European

Bistro Early
Wettergasse 14, 35037 Marburg
Italian, German

957 Ramen Bar
Krebsgasse 1, 35037 Marburg
Japanese

Restaurant Mon Ami
Universitätsstraße 28, 35037 Marburg
Mediterian, Italian

Market
Markt 11, 35037 Marburg
Traditional german, European

Paprica Marburg
Reitgasse 12, 35037 Marburg
European

Feel free to return your conference bag & name badge

We want to keep LWDA2023 as sustainable as possible. Therefore, if you have no further use for your name badge, conference bag and/or its contents after the conference, please feel free to return it to us!