

LWDA 2023 (Lernen, Wissen, Daten, Analysen)

Oktober, 09-11, 2023 Marburg

Program

	Monday							
time	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 Porta for Queries 							
17:30 to	free time							
18:30	this timeframe is block	ed for your hotel chec	k-ins; in the meanwhile, th	e poster session is s	et up			
18:30 to 20:00	Poster Session (<mark>Roc</mark>	om +2/0050, 2nd flo	<mark>or</mark>)					

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 +2/0	050, 2nd floor)				
10:30	KDML1	DB 1	WM 1	IR 1	BIA 1	
to 12:00	(Room +3/0050, 3rd floor)	(Room +1/0010, 1st floor)	(Room +3/0010, 3rd floor)	(Room +1/0050, 1st 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-Con- sistent 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 Trans- fer to Noisy Environments with Safety Constraints {canceled} A. Saadallah and M. Jak- obs: Online Deep Hybrid Ensemble Learning for Time Series Forecasting M. Bunse and L. Pfahler: Class-Conditional Label Noise in Astroparticle Phys- ics 	M. Poppinga, J. Graef, K. Diedrich, M. Rarey and N. Ritter: Database and Workflow Opti- mizations for Spa- tial-Geometric Que- ries 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: SuMEx- plorer: Summarisa- tion-based Fre- quent Subgraph Mining for Visual Exploratory Sub- graph Searching Session Chair: Ralf Schenkel	V. Eisenstadt, J. Bielski, C. Langenhan, K. D. Althoff and A. Dengel: A Fea- ture-wise Com- parative Assess- ment of the CBR- based Methodol- ogies FLEA and SEASALT M. Nadeem, J. Zenkert, L. Bender, C. We- ber and M. Fa- thi: KIRETT: Knowledge- Graph-Based Smart Treatment Assistant for In- telligent Rescue Operations J. Baumeister and V. Roß: SKOS-Utils: De- veloping and Checking SKOS Knowledge Graphs (Tool Presentation) Session Chair:	M. Fröbe, J. H. Reimer, S. MacAvaney, N. Deckers, S. Reich, J. Bevendorff, B. Stein, M. Hagen and M. Potthast: The Information Retrieval Experi- ment Platform S. Diem and T. Mandl: Automatic Classification of Portraits: Applica- tion 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 Sce- narios within a Digi- tal Study Planning Assistant	/	

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	WМ	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	KDML 2	DB 2	WM 2	IR2	BIA2
to	(Room +3/0050, 3rd	(Room +1/0010, 1st	(Room +3/0010,	(Room +1/0050,	(Room
12:00	floor)	floor)	3rd floor)	1st floor)	+2/0050, 2nd
				M Doutrons I	floor)
	P. Janetzky, P. Liss-	A. Cullinhanan M	A. Lommatzsch, B.	M. Bertram, J.	T. C. Schel-
	mann, A. Hotho and A.	A. Grünhagen, M.	O. L. Kurps, S. A.	Schäfer and T.	
	Krause: Automatic Speech Detection on a Smart Beehive's Rasp- berry Pi	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 Synchro-	M. Tahir, V. S. Ros- enberg, M. N. Walny and H. D. Boyadzhiev: Comb- ing an Information Retrieval and Large	Mandl:	horn, J.
				Hate Speech Col-	Gunklach and
				lections for Ger-	A. Mädche:
				man and their	Designing an
				Features	Analytical Con-
	J. Hanselle, J. Kor- nowicz, S. Heid, K.				trol Chart Sys-
			Language Models	P. Schaer, S.	tem with ML-
	Thommes and E. Hüller-		for a Chatbot that	Myshkina and J.	predicted
	meier: Comparing Hu-	nization System at the	Generates Reliable,	Keller: Scien-	Quality Char-
	mans and Algorithms in	European X-Ray Free-	natural-style An-	tometric Analysis	acteristics
	Feature Ranking: A Case-	Electron Laser	swers	of German IR Re-	
	Study in the Medical Do-		544013	searchers be-	B. Augenstein
	main	M. L. Möller, D.		tween 2020 and	and D. Salaj:
	mann	Hausler, S. Strasser,	T. Alby: The Data	2023	Exploiting
	F. Barth, L. Weber-Gen-	T. Auge and M.	Dilemma: Google		Foundation
	zel and U. Leser: Bio-	Klettke: Heterogene-	Analytics' Un-	M. Bullin and A.	Models for
		ity in NoSQL Data-	tapped Potential	Henrich: Applied	Spoken Lan-
	medical Event Extraction	bases: Challenges of	and Web Data Lit-	Face Recognition	guage Identifi-
	with Generative Lan-	Handling schema-less	eracy	in the Humani-	cation
	guage Models	Data		ties	
		Data	W. Müller and M.		P. Herbst and
	M. Schaller, M. Stein-			Session Chair:	H. Baars:
	inger, A. Dulny, D.	S. Langenecker, C.	Leyer: Bridging the	Ralf Schenkel	Accelerating
	Schlör and A. Hotho: Liquor-HGNN: A hetero- geneous graph neural network for leakage de-	Sturm, C. Schalles	Gap: Examining the trust dimensions of		literature
		and C. Binnig: Pythag-			screening for
		oras: Semantic Type	smart contracts us-		systematic lit-
		Detection of Numeri-	ing supply chain ap-		erature re-
	tection in water distribu-	cal Data Using Graph	plications		views with
	tion networks	Neural Networks			Large Lan-
			Session Chair: Jo-		guage Models
	B. Böing, S. Klüttermann	Session Chair: Maxi-	hannes Baumeister		– develop-
	and E. Müller:	milian Schüle			ment, applica-
	Post-Robustifying Deep				tion, and a
	Anomaly Detection En-				first evalua-
	sembles by Model Selec-				tion
	tion				-
	B. Tödtli, S. Müller, M.				
	Rickenmann, J. Vetsch				
	and S. Haug: A Docu-				
	ment Tagging Support				
	System for Nursing Care				
	Experts				

12:00 to 13:00	Lunch				
13:00	KDML3	DB3	WM3	IR3	BIA3
to	(Room +3/0050, 3rd		(Room +3/0010,		(Room
14:30	floor)		3rd floor)		+2/0050, 2nd
					floor)
	S. Mücke and T. Ger-				M Marling D
	lach: Efficient Light		M. Mauri, Ö. I. Er-		M. Werling, P. Weber and H.
	Source Placement using		duran, M. Minor		Lasi:
	Quantum Computing		and T. P. D. An: In-		Datengenos-
			tegrating BDI		senschaften
	J. Brandt, E. Schede, S.		Agents with the		als Datentreu-
	Sharma, V. Bengs, E.		MATSim Traffic		händer – Eine
	Huellermeier and K.		Simulation for Au-		qualitative Analyse von
	Tierney: Contextual Pre-		tonomous Mobility		Pilotprojekten
	selection Methods in		on Demand		i notpi ojenten
	Pool-based Realtime Al-				J.
	gorithm Configuration		M. Krüger: Com-		Lachenmaier,
	0		parative Analysis of		M. Werling
			Text-Based CBR Al-		and D. Morar:
	F. Siepe, P. Wenig and	/	gorithms for Cyber-	/	Governance of Artificial Intel-
	T. Papenbrock: A Few		crime Profiling In-		ligence – A
	Models to Rule Them		vestigations		Framework
	All: Aggregating Ma-				Towards Ethi-
	chine Learning Models		Session Chair: Pas-		cal Al Applica-
	0		cal Reuss		tions
	S. Müller, V. Toborek, K.				
	Beckh, M. Jakobs, C.				
	Bauckhage and P.				
	Welke: An Empirical				
	Evaluation of the				
	Rashomon Effect in Ex-				
	plainable Machine				
	Learning				
	J. Tritscher, M. Wolf, A.				
	Hotho and D. Schlör:				
	Evaluating feature rele-				
	vance XAI in network in-				
	trusion detection				
	V. Toborek, M. Busch,				
	M. Boßert, C. Bauck-				
	hage and P. Welke: A				
	New Aligned Simple Ger-				
	man Corpus				
14:30					
to	Keynote (Room +3/00	50, 3rd floor)			
15:30	Dr. Dietrich Alexander He	rherg			
	The crucial last mile: mast	U	l implementation		
15:30 to	Closing				
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*

957 Ramen Bar Krebsgasse 1, 35037 Marburg *Japanese*

Market Markt 11, 35037 Marburg Traditional german, European Bistro Early Wettergasse 14, 35037 Marburg Italian, German

Restaurant Mon Ami Universitätsstraße 28, 35037 Marburg Mediterian, Italian

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!