

IEEE DSAA 2026

The 13th IEEE International Conference on Data Science and Advanced Analytics

October 6-9, 2026 | New Delhi, India

<https://dsaa2026.dsaa.co/>

Program Schedule

All times are in India Standard Time (IST; GMT+05:30 / UTC+05:30).

Presentation timing: Short Papers: 12 minutes for presentation + 3 minutes Q&A

Regular Papers: 17 minutes for presentation + 3 minutes Q&A.

October 6, 2026 (Tuesday)			
Time	Hall 1	Hall 2	Hall 3
08:30-09:00	Inauguration/Registration		
09:00-10:00	Keynote 1: Trust in an Untrusted World: Private Access over Public Infrastructures <i>Prof. Divyakant Agrawal, University of California at Santa Barbara</i>		
10:00-10:30	Tea break		
10:30-12:30	1. Research I: Core ML, Optimization & Sequential Learning	2. Applications I: Industrial & Scientific Analytics	3. MLJ Special Issue I: Recommendation, RAG & Personalization
12:30-13:30	Lunch break		
13:30-15:30	4. Research II: Multimodal, Representation & Sequential Learning	5. LLM I: Agents, Adaptation & Applications	Tutorial 1: Fairness-Aware Network Embedding: Algorithms, Applications, and Challenges
15:30-16:00	Tea break		
16:00-17:30		6. Survey & Vision	Tutorial 1: Fairness-Aware Network Embedding: Algorithms, Applications, and Challenges
			Transition break
19:00-21:00	Reception Dinner		
			7. Special Session: MADL 2026
October 7, 2026 (Wednesday)			
Time	Hall 1	Hall 2	Hall 3
08:30-09:00	Registration		
09:00-10:00	Keynote 2: Causal and Explainable AI: Challenge of Solving Real-Life Problems <i>Prof. Santanu Chaudhury, Ashoka University</i>		
10:00-10:30	Tea break		
10:30-12:30	8. Research III: Language, Reasoning & AI Evaluation	9. Applications II: Language, QA & Benchmarks	10. MLJ Special Issue II: RAG, Evaluation & Reliable AI
12:30-13:30	Lunch break		
13:30-15:30	11. Research IV: Health, Biomedical & Biological AI		Tutorial 2: LLMs for Social Network Modeling: From Network Generation to Dynamic Processes
15:30-16:00	Tea break		
16:00-17:30		12. Industry & Doctoral Consortium	Tutorial 2: LLMs for Social Network Modeling: From Network Generation to Dynamic Processes
			Transition break
			13. Special Session: SDS 2026

October 8, 2026 (Thursday)			
Time	Hall 1	Hall 2	Hall 3
08:30-09:00	Registration		
09:00-10:00	Keynote 3: Interdisciplinary Intelligence: AI, Data, and Social Sciences in Dialog Prof. Huan Liu, Arizona State University		
10:00-10:30	Tea break		
10:30-12:30	14. Research V: Anomaly Detection & Security	15. Applications III: Health, Society & Public Analytics	16. Special Session: CIVIL 2026
			Transition break
			17. Special Session: LLFM 2026
12:30-13:30	Lunch break		
13:30-15:30	18. Research VI: Privacy, Federated & Trustworthy AI	19. Special Session: DS4SG 2026	17. Special Session: LLFM 2026
15:30-16:00	Tea break		
16:00-17:30	Panel: AI Agents: How autonomous should they be?		
19:00-21:00	Banquet		
October 9, 2026 (Friday)			
Time	Hall 1	Hall 2	Hall 3
08:30-09:00	Registration		
09:00-10:00	Keynote 4: A Neuro-Symbolic Explainer for Rare Events Prof. João Gama, University of Porto		
10:00-10:30	Tea break		
10:30-12:30	20. Research VII: Graphs & Knowledge Representation	21. Applications IV: Finance, Risk & Operations	Tutorial 3: Geospatial Foundation Models: Algorithms and Applications
12:30-13:30	Lunch break		
13:30-15:30	22. LLM II: Evaluation, Reliability & Reasoning	23. JDSA Special Issue: Language, Vision & Social AI	Tutorial 3: Geospatial Foundation Models: Algorithms and Applications

Program Details

1. Keynote Talks

Keynote & Time	Speaker, Affiliation & Keynote Title
Keynote 1 Oct 6, 09:00-10:00	Prof. Divyakant Agrawal Leadership Endowed Chair in Computer Science, Distinguished Professor & Chair, University of California at Santa Barbara Title: <i>Trust in an Untrusted World: Private Access over Public Infrastructures</i>
Keynote 2 Oct 7, 09:00-10:00	Prof. Santanu Chaudhury Dean, Vachani School of Advanced Computing Professor of Computer Science, Ashoka University Title: <i>Causal and Explainable AI: Challenge of Solving Real-Life Problems</i>
Keynote 3 Oct 8, 09:00-10:00	Prof. Huan Liu Regents Professor, School of Computing and Augmented Intelligence, Arizona State University Title: <i>Interdisciplinary Intelligence: AI, Data, and Social Sciences in Dialog</i>
Keynote 4 Oct 9, 09:00-10:00	Prof. João Gama Professor Emeritus, University of Porto & Researcher, INESC TEC - LIAAD, Porto, Portugal Title: <i>A Neuro-Symbolic Explainer for Rare Events</i>

Keynote Speaker Details

Keynote 1: Prof. Divyakant Agrawal

Oct 6, 09:00-10:00 | Leadership Endowed Chair in Computer Science, Distinguished Professor & Chair, University of California at Santa Barbara

Title: Trust in an Untrusted World: Private Access over Public Infrastructures

Abstract: We are living in an era where our digital lives are increasingly interdependent and deeply interconnected. These connections rely on a vast, layered ecosystem of actors—many of whose trustworthiness is uncertain or outright suspect. Over the past three decades, rapid advances in computing and communication technologies have brought unprecedented access and connectivity to billions of users. Yet this digitization comes at a cost: our interactions, queries, and data are increasingly vulnerable to privacy violations. Today, threats to privacy come not just from malicious individuals, but also from powerful institutions—ranging from service providers to nation-states. In this reality of an untrusted world, we pose several foundational research questions: (i) Can we design a scalable voice communication system that ensures absolute privacy? (ii) Can we build an oblivious search engine over public document repositories? (iii) Can we develop scalable private query processing over shared or public databases? (iv) And in the age of large language models, can we enable private inference for user queries? These are not just open problems — they are essential challenges if we are to build trusted services over untrusted infrastructures. In this talk, I will present recent work that leverages Homomorphic Encryption to address some of these questions. We explore the inherent performance and scalability trade-offs in enabling private access, search, and inference. If nothing else, our results underscore a critical insight: ensuring privacy at scale is not impossible, but it comes at a high cost.

Biography: Divy Agrawal is a Distinguished Professor and Chair of Computer Science at the University of California, Santa Barbara (UCSB), where he also holds the Leadership Endowed Chair in the Department of Computer Science. He received his B.E. (Hons.) in Electrical Engineering from BITS Pilani, followed by M.S. and Ph.D. degrees in Computer Science from the State University of New York at Stony Brook. Since joining UCSB, Professor Agrawal has established himself as a leading researcher in databases, distributed systems, cloud computing, and large-scale data infrastructures and analytics. Over the course of his career, he has published more than 400 research articles and mentored approximately 50 Ph.D. students. He currently serves as Editor-in-Chief of both the Proceedings of the ACM on Modeling of Data and the Springer journal Distributed and Parallel Databases. He has served on several editorial boards, including ACM Transactions on Database Systems, IEEE Transactions on Knowledge and Data Engineering, ACM Transactions on Spatial Algorithms and Systems, ACM Books, and the VLDB Journal. Professor Agrawal is a former Trustee of the VLDB Endowment and recently served as Chair of the ACM Special Interest Group on Management of Data (SIGMOD). His recognitions include the Gold Medal from BITS Pilani, the UCSB Academic Senate Award for Outstanding Graduate Mentoring, and multiple paper honors: Best Paper Awards (ICDE 2002, MDM 2011), an Influential Paper Award (NDSS 2024), and Test-of-Time Awards (ICDT, MDM). He is a Fellow of the ACM, IEEE, and AAAS.

Keynote 2: Prof. Santanu Chaudhury

Oct 7, 09:00-10:00 | Dean, Vachani School of Advanced Computing Professor of Computer Science, Ashoka University

Title: Causal and Explainable AI: Challenge of Solving Real-Life Problems

Abstract: Integrating causality into machine learning provides a principled foundation for achieving robustness under distribution shifts and hallucinations and provides a framework for explainable AI. Causality ensures stability across diverse operational conditions and allows models to learn to respond to interventions and shifting environments. In our talk, we shall show how domain-based features can be exploited to ensure robust and explainable AI performance in different domains. We shall be considering two contrasting application domains – medical imaging and campaign designs for commercial interventions.

Biography: Professor Santanu Chaudhury is the first Dean of the Vachani School of Advanced Computing at Ashoka University. Prof. Santanu Chaudhury did his B.Tech (1984) in Electronics and Electrical Communication Engineering and PhD (1989) in Computer Science and Engineering from IIT Kharagpur, India. He has earlier been Director, IIT Jodhpur and Director CSIR-Central Electronics Engineering Research Institute. He was also Dean, Undergraduate Studies at IIT Delhi and has held a number of Chair Professor positions at IIT Delhi. He was awarded the INSA medal for young scientists in 1993. He is a fellow of the Indian National Academy of Engineers (INAE), the National Academy of Sciences (NASI) and the International Association of Pattern Recognition (IAPR). He is also a recipient of the Distinguished Alumni Award of IIT Kharagpur. He has over 350 publications in reputed Journals and conferences and 15 patents with technologies commercialised by global industries. He has authored and edited books on Multimedia Ontology and Digital Heritage. His areas of interest are Computer Vision, Artificial Intelligence, AI Applications, Digital Heritage, AR-VR & Multi-sensory media. He has led several national initiatives across the fields of robotics, medical imaging, cyber-physical systems, document image understanding, and digital heritage and has been instrumental in advancing interdisciplinary AI research in the country.

Keynote 3: Prof. Huan Liu

Oct 8, 09:00-10:00 | Regents Professor, School of Computing and Augmented Intelligence, Arizona State University

Title: Interdisciplinary Intelligence: AI, Data, and Social Sciences in Dialog

Abstract: The current Generative AI (GAI) revolution is built on a simple premise: bigger is better. Tech giants are fiercely chasing the 'scaling law,' betting that massive data and immense compute will unlock Artificial General Intelligence (AGI). This talk challenges that assumption, arguing that scaling alone is insufficient to achieve AGI. Grounded in insights from social media mining and data science, we propose Interdisciplinary Intelligence, a collaborative framework essential for the next frontier of AI. This framework not only drives technical innovation but also tackles the urgent socio-technical challenges of the LLM era, including bias, reliability, equity, evaluation, and the integrity of AI-assisted research. This talk serves as a call to action for computer scientists, data scientists, social scientists, ethicists, and policymakers to come together and co-create the future of responsible AI.

Biography: Prof. Huan Liu is a Regents professor of computer science and engineering with the School of Computing and Augmented Intelligence in the Ira A. Fulton Schools of Engineering. At Arizona State University, he was recognized for excellence in teaching and research in Computer Science and Engineering and received the 2014 President's Award for Innovation. He is the recipient of the ACM SIGKDD 2022 Innovation Award. His research interests are in data mining, machine learning, feature selection, social computing, and artificial intelligence. He is a co-author of a text, Social Media Mining: An Introduction, Cambridge University Press. He is a founding organizer of the International Conference Series on Social Computing, Behavioral-Cultural Modeling, and Prediction, and Chief Editor of Data Mining and Management in Frontiers in Big Data. He is a Fellow of ACM, AAAI, AAAS, and IEEE.

Keynote 4: Prof. João Gama

Oct 9, 09:00-10:00 | Professor Emeritus, University of Porto & Researcher, INESC TEC - LIAAD, Porto, Portugal

Title: A Neuro-Symbolic Explainer for Rare Events

Abstract: In this talk, we describe a neural-symbolic architecture for explaining rare events. We propose a two-layer system, where the first layer is unsupervised, based on autoencoders, and is used designed to detect rare events (outliers, drifts, anomalies, failures). The second layer is supervised, based on rule learners, and is used to explain the anomalies detected in the first layer. Both models run online and in parallel. We evaluate the proposed system in a real-world case study of predictive maintenance. We present examples of explanations that illustrate their benefits.

Biography: João Gama is an Emeritus Professor at the University of Porto, Portugal. He received his Ph.D. in Computer Science from the University of Porto in 2000. He taught Informatics and data sciences at the School of Economics for more than 30 years. He is EurAI Fellow, IEEE Fellow, and Fellow of the Asia-Pacific AI Association. He is a member of the Academia das Ciências de Lisboa. His main scientific contributions are in the area of learning from data streams, where he has an extensive list of publications. He is the Editor-in-Chief of the International Journal of Data Science and Analytics, published by Springer.

2. Tutorials

Tutorial & Time	Title, Presenter & Affiliation
Tutorial 1 Oct 6, 13:30-15:30; and 16:00-16:45	Fairness-Aware Network Embedding: Algorithms, Applications, and Challenges Presenter: Akрати Saxena, Leiden University, The Netherlands
Tutorial 2 Oct 7, 13:30-15:30; and 16:00-16:45	LLMs for Social Network Modeling: From Network Generation to Dynamic Processes Presenter: Shikha Mallick, University of Victoria, Canada
Tutorial 3 Oct 9, 10:30-12:30; and 13:30-14:15	Geospatial Foundation Models: Algorithms and Applications Presenter: Ranga Raju Vatsavai, North Carolina State University, USA

Tutorial Details

Tutorial 1: Fairness-Aware Network Embedding: Algorithms, Applications, and Challenges

Oct 6, 13:30-15:30 and 16:00-16:45 | Hall 3

Presenter: Akрати Saxena, Leiden University, The Netherlands

Abstract: Real-world networks consist of billions of nodes and edges, making large-scale inference computationally expensive. Network embedding addresses this challenge by mapping nodes to low-dimensional latent representations while preserving structural properties like node proximity and community membership. However, real-world complex networks have several structural inequalities, often arising from social, economic, and political factors that influence their evolution. If these inequalities are not taken into account when generating network embeddings, the learned representations can unintentionally encode and amplify structural and societal biases present in graph data, leading to unfair outcomes for minority or underrepresented groups. This tutorial provides a comprehensive introduction to fairness-aware network embedding and graph representation learning. The tutorial begins by discussing structural inequalities in real-world networks and their impact on algorithmic fairness, followed by an overview of fairness-aware embedding methods, including random-walk and GNN-based embedding methods, adversarial learning, and advanced embedding techniques, along with fairness evaluation metrics and practical challenges such as robustness, explainability and interpretability. Finally, the tutorial discusses emerging trends and open challenges in the domain, and concludes with future directions.

Tutorial 2: LLMs for Social Network Modeling: From Network Generation to Dynamic Processes

Oct 7, 13:30-15:30 and 16:00-16:45 | Hall 3

Presenter: Shikha Mallick, University of Victoria, Canada

Abstract: Modern social networks are complex systems in which graph structure, user attributes, textual content, and temporal interactions jointly shape information access, influence, polarization, misinformation spread, and collective behavior. While traditional graph-based models are powerful for representing network structure and dynamics, they often abstract away the semantic and contextual information associated with social actors, relations, and interactions. Large Language Models (LLMs) are increasingly being explored as tools for modeling these richer aspects of social networks: they can extract relational structure from text, represent users and relations, reason over graph structured descriptions, generate synthetic social networks, and simulate opinion dynamics in agent populations. However, LLM-based network modeling introduces significant risks, including hallucinated ties, prompt sensitivity, biased persona behavior, misestimated homophily, and unrealistic downstream diffusion patterns. This tutorial provides a structured overview of LLMs for modeling social networks. We first introduce the social network modeling problem, then discuss static graph modeling, dynamic graph modeling, the limitations of LLM-based approaches, mitigation strategies, open challenges, and future directions. The tutorial is designed for researchers in the fields of data science, graph mining, social network analysis, LLMs, and computational social science.

Tutorial 3: Geospatial Foundation Models: Algorithms and Applications

Oct 9, 10:30-12:30 and 13:30-14:15 | Hall 3

Presenter: Ranga Raju Vatsavai, North Carolina State University, USA

Abstract: Foundation models are deep learning models trained on massive datasets and high-end computing resources. Recent advances have enabled them to perform a broad range of general tasks, including language processing, summarization, question answering, code generation, problem-solving, and reasoning. Geospatial foundation models are specifically trained on large-scale geospatial and temporal data. While general purpose foundation models have demonstrated their capabilities in numerous popular applications, such as natural language generation, question answering, and text summarization, applications of geospatial foundation models are just beginning to emerge. This tutorial will first summarize recent advances in geospatial foundation models and then describe their various applications.

3. Panel

AI Agents: How autonomous should they be?

Our world is at a major technical inflection point. AI is no longer just a passive conversational tool or search engine. We need to actively address systems that autonomously plan, execute multi-step workflows, leverage external tools, and operate with diminishing human supervision.

The panel of eminent members will share their perspectives on this topic, including the following statements of interest:

- What are the current technical solutions for setting boundaries for AI agents?
- What are the open and hard technical problems?
- What are the human/legal/policy angles of what those boundaries should be?
- Which domains need more oversight?
- What is the role of users, developers, companies, governments and international bodies?

Moderators:

Sanjay Chaudhary (Ahmedabad University) and Vikram Pudi (IIIT Hyderabad)

4. Technical Sessions

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
1	Research I: Core ML, Optimization & Sequential Learning (Oct 6, 2026, 10:30-12:30, Hall 1)	25	Multi-Dimensional Apriori-Window: Exact Mining of Dense Itemset Regions over Arbitrary Dimensions (Short) [Research Track] Kanata Takayasu; Taihei Takahashi; Satoshi Suga; Satoshi Kurihara
		55	FluxAlloc: Adaptive Dynamic Memory Allocation (Short) [Research Track] Sachin Mishra; Abhay Gotmare; Lomesh Soni
		71	Tailoring Data Preprocessing to Enhance the Predictive Performance of Ensemble-based AutoML (Short) [Research Track] Julius Voggesberger; Peter Reimann; Sarah Dossdall; Bernhard Mitschang
		80	ProbBERT: Probabilistic Transformer for Reliable Missing Value Imputation [Research Track] Yanis charbti; Hasna Njah; Salma Jamoussi
		125	PlayerEmbed: Learning Behavioral Fingerprint Representations from Raw Input Sequences (Short) [Research Track] Tobias Schneider; Lorenz Sparrenberg; Priya Tomar; Shahzeb Qamar; Tobias Deußner; Rafet Sifa
		267	On-Demand Kernel-Column SMO: Memory-Linear Exact Updates for Kernel SVMs (Short) [Research Track] Manikandan Ravikiran
		221	Delay Complexity Dimension: Learning with Delayed and Censored Label (Short) [Research Track] Madhava Gaikwad
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
2	Applications I: Industrial & Scientific Analytics (Oct 6, 2026, 10:30-12:30, Hall 2)	66	Identifying Security Platform Product Abuse with Machine Learning (Short) [Application, Data and Benchmark Track] Shaefer Drew; Michael Brautbar; Paul Knight; Edward Raff; Lana Peric-McDermott; Simran Sarin; Nickolas da Rocha Machado; Hanna Albright; Vitaly Zaytsev
		126	Robust Subsequence Search in Multivariate Industrial Sensor Data: A Human-in-the-Loop Approach for Metallurgical Processes (Short) [Application, Data and Benchmark Track] Thomas A. Kristan; Belgin Mutlu; Klaus Seyerlehner; Klaus Jax; Petra Krahwinkel; Roman Kern
		137	Simpler Methods Work Better for L1 Penalized Logistic Models and Large Datasets [Application, Data and Benchmark Track] Edward Raff; James Holt
		248	PASTA: Pretrained and Specialized Two-Tier Architecture for Payment Event Sequence Modeling (Short) [Application, Data and Benchmark Track] Bhushan Chaudhari; Aakash Agarwal; Tanmoy Bhowmik; Anoop Kumar Gupta; Naveen Setia
		185	Space-Time Matters: Spatio-Temporal Loss Alignment for Diurnal Precipitation Bias Correction (Short) [Application, Data and Benchmark Track] Vishesh Singhal; Shruti Ashok Upadhyaya; Kuldeep Ramchandra Kurte
		245	Amortized Bayesian Inversion of Multi-Contrast Neutron Reflectometry (Short) [Application, Data and Benchmark Track] Roberto D. Herrera; Mithilesh Gollapelli; Upasana Roy; Konstantina Sokratous; Minh D. Phan; Prasad Calyam; Clinton Stober; Tanu Malik

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
3	MLJ Special Issue I: Recommendation, RAG & Personalization (Oct 6, 2026, 10:30-12:30, Hall 3)	2026-561	Enhancing Graph-based Recommendations with Majority-Voting LLM-Rerank Augmentation [Journal Track - MLJ] Dung D. Le
		2026-560	KALM4Rec: Keyword-driven Retrieval-Augmented LLMs for Cold-start User Recommendations [Journal Track - MLJ] Dung D. Le
		2026-917	Cortex: A Retrieval-Augmented Framework for Career-Aligned Learning Paths [Journal Track - MLJ] Vatsala Ramachandran
		2026-MLJ128	LLM-SocRec: Enhancing Graph-based Social Recommendation via Collaborative LLMs [Journal Track - MLJ] Weiping Li
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
4	Research II: Multimodal, Representation & Sequential Learning (Oct 6, 2026, 13:30-15:30, Hall 1)	100	Semantic Precision Error Rate - Quality Metric for Music Source Separation in the Context of Automatic Lyrics Transcription [Research Track] Natalia Wilk; Piotr Andruszkiewicz
		134	CRANE: Post-Hoc Counterfactual Retrieval for Multimodal Classifiers (Short) [Research Track] Franco Rugolon; Ioanna Miliou; Panagiotis Papapetrou
		220	An Efficient MultiModal Framework for Crop Yield Prediction Using Sentinel-2 [Research Track] Abhinand P; Poonam Goyal; Arshveer Kaur; Ojas Jain; Navneet Goyal
		231	Metric-Guided Underwater Image Enhancement with Crowdsourced Subjective Evaluation (Short) [Research Track] Doğukan Öztürk; Avrajyoti Dutta; Dawid Juszka; Yi Zhang; Mikołaj Leszczuk
		284	Efficient Time Series SSL via Signal Descriptors (Short) [Research Track] Parv Thacker; Ayush Shrivastava; Nipun Batra
		96	Recurrent Neural Networks with Swappable Parameters (Short) [Research Track] Piotr Andruszkiewicz
		33	Assessing Limits of Weather-Based Vessel Speed Prediction Using AIS Data (Short) [Research Track] DOUGLAS AMOBI AMOKE; Syed Mohsen Naqvi

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
5	LLM I: Agents, Adaptation & Applications (Oct 6, 2026, 13:30-15:30, Hall 2)	44	Can LLMs Understand the Student Code-Writing Process? Learner Profile Identification from Raw Keystrokes and Code Snapshot Sequences (Short) [Large Language Models Track] Muhammad Fawad Akbar Khan; Ludia Eka Feri; John Edwards; Hamid Karimi
		123	INTUNE System-of-Systems: An Event-Driven Architecture for Incremental Knowledge Distillation in Compact LLMs [Large Language Models Track] Radhakrishna Bharuka; Abhang Pawar; Nilesh Vinod Dwivedi; ANSHUMAN GUHA; Animesh Chaturvedi
		230	ArgMinAnnotator: Cost-Efficient Argument Mining with LLM-Authored Labeling Functions (Short) [Large Language Models Track] Ajanta Maurya; Parvigari Sai Kiran Chary; V. Vijaya Saradhi; Ashish Anand
		246	SQL-based grounding of Small Language Models for Remote Sensing Visual Question Answering (Short) [Large Language Models Track] Sourabh Barala; Kuldeep Ramchandra Kurte
		260	ScoreCLIQ2: Reward-aware Alignment in Feedback-guided Paraphrasing for MCQ Item Difficulty Estimation (Short) [Large Language Models Track] Soujatya Sarkar; Manikandan Ravikiran; Rohit Saluja
		292	Agentic SOAR: Agentic AI Driven Autonomous Security Orchestration and Response (Short) [Large Language Models Track] Surabhi Dwivedi; Akshaya Acha; Balaji Rajendran; Praveen Ampatt; Sithu D Sudarsan
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
6	Survey & Vision (Oct 6, 2026, 16:00-17:30, Hall 2)	97	An Introduction to Compression-Based Machine Learning (Short) [Survey and Vision Track] John Hurwitz; Edward Raff; Charles K. Nicholas
		188	Mining Time Interval-based Event Sequences (Temporal Database) - A Survey [Survey and Vision Track] Bijay Prasad Jaysawal; George Konstantinidis; Jen-Wei Huang; Christopher Maidens
		270	From Templates to Foundation Models: A Cross-Task Survey of Machine Learning for Chemical Reaction Prediction [Survey and Vision Track] Priet Ukani; P. Reddy; U Deva Priyakumar; Riyaz Syed; Poornachandra Yedla
		289	Investigating Model-Agnostic Indicators for Hallucination Detection in Surgical Image Inpainting: A Cautionary Tale (Short) [Survey and Vision Track] Priya Tomar; Philipp Feodorovici; Dhanakumaresh Subramani; Rafet Sifa; Christian Bauckhage
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
7	Special Session: MADL 2026 (Oct 6, 2026, 16:50-17:30, Hall 3)	7 (MADL)	SEAGUARD: Split-Serpentine Federated Relative-Position Transformers for Explainable Maritime Anomaly Detection [MADL 2026] Pronaya Bhattacharya; Sudip Chatterjee; Tamojit Roy; Srinkonee Singha Roy; Rutvij H Jhaveri; Kai Fang; Thippa Reddy Gadekallu

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
8	Research III: Language, Reasoning & AI Evaluation (Oct 7, 2026, 10:30-12:30, Hall 1)	152	MADS: Ensemble LLM-based Multi-Agent Debate System for Political Bias Detection [Research Track] Yik Yu Ng; Benjamin C. M. Fung; Elena Obukhova; Djedjiga Mouheb; Ching-Chun Huang; Shih-Chia Huang
		256	CHART: Curriculum-guided Hierarchy-Aware Relation classification via prompt Tuning (Short) [Research Track] Soumya Bharadwaj; Anushka Gupta; Posa Mokshith; Ashish Anand
		280	TRINITY: A Tri-order Regularized Optimization with Adaptivity (Short) [Research Track] Gauranshi Gupta; Anant Jain; Bapi Chatterjee
		275	Can the Rookies Cut the Tough Cookie? Exploring the Use of LLMs for SQL Equivalence Checking [Research Track] Rajat Singh; Srikanta Bedathur
		282	Memory-Efficient Inferencing In Extreme Multi-Label Text Classification Using Post-Training Quantization (Short) [Research Track] Rudra Dutt; Yashaswi Verma
		109	DriftBench: When Schema Drift Breaks Analytical Agent Rankings (Short) [Research Track] Sahana Varadaraju; Bharathwaj Vijayakumar
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
9	Applications II: Language, QA & Benchmarks (Oct 7, 2026, 10:30-12:30, Hall 2)	122	Automatic Misinformation Detection in E-Commerce Based Product Question Answering [Application, Data and Benchmark Track] Anshul Kumar; Atharva Inamdar; Krish Agrawal; Gagan Raj Gupta; Rajesh Sharma; Soumajit Pramanik
		147	IndicIPR-QA: A Benchmark for Extractive Question Answering on Indian IPR Laws [Application, Data and Benchmark Track] M Mohaiminul Islam; Muhammad Abulaish
		244	InGlish: A Multilingual Code-Mixed Dataset for Language Identification and Transliteration in Indian Languages [Application, Data and Benchmark Track] Saurabh Kumar; Rupnarayan Kumar; Ranbir Singh Sanasam; Sukumar Nandi
		253	Abstention vs. Hallucination: Benchmarking LLM Source Attribution for Sentence-level Scientific Citations (Short) [Application, Data and Benchmark Track] Deepa Tilwani; Yash Saxena; Seyedali Mohammadi; Ankur Padia; Edward Raff; Amit Sheth; srinivasan parthasarathy; Manas Gaur
		111	Double Phase Transitions in Structured Data Mixtures: When a Learned Subgroup Is Still Uncovered (Short) [Application, Data and Benchmark Track] HikaruMatsuoka

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
10	MLJ Special Issue II: RAG, Evaluation & Reliable AI (Oct 7, 2026, 10:30-12:30, Hall 3)	2026-MLJ191	From Relevance to Utility: Faith-Rank for Utility-Driven Evidence Re-ranking in RAG [Journal Track - MLJ] Li Wang
		2026-MLJ177	Photon: Efficient Prefix-Conditioned Image Captioning with Lightweight Transformer Decoding [Journal Track - MLJ] Kalidas Yeturu
		2026-MLJ155	TAD-Bench: A Comprehensive Benchmark for Embedding-Based Text Anomaly Detection [Journal Track - MLJ] Sikun Yang
		2026-MLJ144	Exploring the Potential of ChatGPT 5.0 and LexiBot as Automated Essay Scorers for IELTS Writing Task 2 [Journal Track - MLJ] Pham Xuan Phuong Ho
		2026-MLJ203	Probing Spatial Robustness in OCR-Dependent Document Understanding: Adversarial Attacks on Bounding Box Metadata Across Layout-Aware Architectures [Journal Track – MLJ] Dung D. Le
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
11	Research IV: Health, Biomedical & Biological AI (Oct 7, 2026, 13:30-15:30, Hall 1)	26	The Impact of Cross-Validation Schemes for Sleep Stage Detection Using Structural Learning [Research Track] Nafisa Rehmani; RAJA SEKHAR BANOVOTH; Venkata Praveen Kumar Madhavarapu
		50	Adversarial Robustness of Geometric Protein Stability Predictors under Physically Constrained Perturbations [Research Track] A SHIVRAM; Tanmay Kumar Dalai; Aneesh Sreevallabh Chivukula; Manik Gupta
		23	Sensitivity of Epidemiological Toxicity Modeling to Observation Design (Short) [Research Track] Nitin Agarwal; Hakan Erdem
		154	Frontal fNIRS Forward Model Localisation for Emotional Valence Processing: A Reproducible Six-Stage Pipeline and Atlas Reliability Boundary Analysis (Short) [Research Track] Archita Ganesh Sindigi; Manideepa Mukherjee
		58	Quantum Fuzzy Neural Networks for Remote Plant Disease Detection [Research Track] Michal Wieczorek; Jakub Silka; Jakub Jaromin; Marcin Wozniak
		151	Explainable AI in healthcare : Enhancing Diagnostic and Medical Treatment Through Interpretability (Short) [Research Track] Redouane Bouhamoum
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
12	Industry & Doctoral Consortium (Oct 7, 2026, 16:00-17:30, Hall 2)	252 (Industry)	Complex Alert Prediction Using Process Mining [Industry Track] Parag Agrawal; Vikrant Shimpi; Maitreya Natu
		262 (Industry)	Unified Waste Intelligence: A Vision-Language Foundation Model for Automated Waste Analysis [Industry Track] Lokendra Mandloi; Madhuvanti Kale; P. K. Srijith
		219 (Doctoral)	An analysis of the performance and explainability of Graph Neural Networks for pharmaceutical counterfeit detection [Doctoral Consortium Track] Tanasa Ionut-Eduard; Laura-Maria Cornei; Oriana-Maria Onicescu

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
13	Special Session: SDS 2026 (Oct 7, 2026, 16:50-17:30, Hall 3)	6 (SDS)	Morphology-Preserving Artifact-Aware Seizure Detection in Multi-Channel EEG via Hybrid Wavelet-Residual Attention [SDS 2026] Varun Jagaddeb; Pronaya Bhattacharya; Rabel Guharoy; Kai Fang; Thippa Reddy Gadekallu
		12 (SDS)	Scalable Transfer Learning for Sequential IoT Intrusion Detection with Heuristic-Guided Data Augmentation [SDS 2026] Jakub Silka; Michal Wieczorek; Marcin Wozniak; Jakub Jaromin
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
14	Research V: Anomaly Detection & Security (Oct 8, 2026, 10:30-12:30, Hall 1)	73	Evaluating Out-of-Distribution Robustness in Graph-Based Android Malware Classification: A New Principled Benchmark [Research Track] Ngoc N. Tran; Anwar Said; Waseem Abbas; Tyler Derr; Xenofon D. Koutsoukos
		124	Empirical Game-Theoretic Evaluation of Malware Byteplot Classifiers under APT-Style Adversarial Dynamics (Short) [Research Track] Venkatesh Natarajan; A SHIVRAM; Pratham Jain; Aneesh Sreevallabh Chivukula
		166	Unsupervised Anomaly Detection for Satellite Telemetry based on Change-Point Detection (Short) [Research Track] Adriano Puglisi; Laurent Oudre
		238	Why Is SHAP Not A Reliable Standalone Explanation Framework For Malware Detection? [Research Track] Seyedreza Mohseni; Edward Raff; Manas Gaur
		64	Fast And Accurate Text Content File Type Identification (Short) [Research Track] Manu Nandan; Michael Brautbar; Edward Raff
		257	Entailment-Guided Explanation Selection for Retrieval-Augmented Question Answering [Research Track] Raghav Rao Ghanathe; Pavan Kumar Parvatam; P. Reddy

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
15	Applications III: Health, Society & Public Analytics (Oct 8, 2026, 10:30-12:30, Hall 2)	68	PRO-ACT database curation for Amyotrophic Lateral Sclerosis studies (Short) [Application, Data and Benchmark Track] Lucas Bouclier; Christel DARTIGUES-PALLEZ; Johan Montagnat
		98	Coarsely-Supervised Learning Approach for Energy Burden Prediction at High Spatial Resolution (Short) [Application, Data and Benchmark Track] Aveline Lezil; Maryam Tabar
		234	LENS: A Linked Analytics Workflow for Evaluating Course Redesign Using Fixed-Effects Models and Structural Equation Modeling [Application, Data and Benchmark Track] CHILLARA VENKATA VARUN; Praveen Meduri
		237	Political Narratives in the 2024 Moldovan Presidential Election: Stance, Amplification, and Influence [Application, Data and Benchmark Track] Andrea Piras; Osman Rahmoun; Elena Zheleva
		283	Analyzing the impact of temporal resolution on the contribution of wearables to chronic disease monitoring (Short) [Application, Data and Benchmark Track] Mallika Manam; Miro Schleicher; Myra Spiliopoulou
		273	A Hybrid Approach to Cooking Time Prediction Using Semantic and Structural Recipe Features (Short) [Application, Data and Benchmark Track] Vibhuti Dhar Khanduri; Deepak Thappa; Divyansh Kaushal; Chetireddy Sreekar reddy; Ganesh Bagler
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
16	Special Session: CIVIL 2026 (Oct 8, 2026, 10:30-11:20, Hall 3)	5	MOSAIC: Data-Efficient Cross-Sensor Alignment for Earth Observation Representation Learning [CIVIL 2026] Yash Mittal; Deeksha Aggarwal; Uttam Kumar
		46	A Hybrid Quantum--Classical EfficientNet--DVQC Model for Multi-Region Bone Fracture Classification from X-ray Images (Short) [CIVIL 2026] D GNANAVENKATA KUMAR; YEDURUPATI SRINIVASA PRASAD; Bingi Prasad Raj; Penugonda Ravikumar; Koneti Hemalatha
		33	SPECTRAFORGE: Domain-Equalized Frequency-Spatial Fusion for Synthetic Dermatology Detection (Short) [CIVIL 2026] Aman kumar; Latchan Chhetri; Dishant Das
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
17	Special Session: LLM 2026 (Oct 8, 2026, 11:30-12:30 & 13:30-15:30, Hall 3)	15	ChatGIT: Intent-Aware Routing for Multi-Turn Conversational Code Retrieval [LLFM 2026] Prakhar Sethi; Anish Gupta; Ritwik Bhattacharyya; Vamsidhar Katamreddy; Sonia Khetarpaul; RAJIB MALL
		30	Towards Empathetic AI: MITI-Guided Evaluation of Large Language Models for Motivational Interviewing [LLFM 2026] Vivek Kumar; Amlan Basu; Pushpraj Singh Rajawat; Ashish Kumar Jha
		51	ZoneGate: Per-Zone Deployment Readiness for Vision-Language Models in Industrial CCTV [LLFM 2026] Suryanarayana R Yarrabothula; Manisha Chawla; Gagan Raj Gupta

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
18	Research VI: Privacy, Federated & Trustworthy AI (Oct 8, 2026, 13:30-15:30, Hall 1)	67	How Smart are Smart Toys? Quantifying Smartness and Increasing Transparency for Toy Markets (Short) [Research Track] Valentyna Pavliv; Isabel Wagner
		94	Recommendation of Anonymization Methods from Natural-Language Descriptions: A RAG-Based Approach and Evaluation (Short) [Research Track] Andrea Fieschi; Christoph Stach; Bernhard Mitschang
		175	FedACS-DP: Adaptive Client Selection with Communication-Efficient and Differentially Private Federated Learning (Short) [Research Track] Kishore Babu Nampalle; Nishu Kumari; PRASHANTH REDDY KEDIKA; Roshan Singh; Rajesh Dwivedi; Dhiran Kumar Mahto
		204	TimeCauST: Causally Constrained Adversarial Attacks via Granger-structural Confinement [Research Track] Ayanabha Ghosh; Debasis Das
		229	On the Fragility of Federated Learning Defenses Under Dynamic Backdoor Attacks [Research Track] Mohammed Ruknuddin; Pravija Raj Patinjare Veetil; Ashish Gupta
		276	ARC-SHIELD: Safety-Locked Diagnostic Routing for Calibrated Runtime Shielding (Short) [Research Track] Suvajyoti Biswas
		77	The Strategic Selectivity Diagnostic: Evaluating Social Tie Reasoning in Large Language Models (Short) [Research Track] Nandini Maroo; Kavita Vemuri
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
19	Special Session: DS4SG 2026 (Oct 8, 2026, 13:30-15:30, Hall 2)	24	A Component-Aware Framework to Simplify Legal Documents: An Experiment on Indian Judgements [DS4SG 2026] Pavan Kumar Parvatam; P. Reddy; SANJU TIWARI; Dheeraj Kodati
		35	Exploring Anomalies in Justice Delivery with a Data Cube-based Framework [DS4SG 2026] Akshat Srivastava; Keetha Nihal Kumar; P. Reddy; Sriharshitha Bondugula; Santhy K.V.K
		37	MARS: A Momentum-Aware Adaptive Rating System for Personalized Assessment (Short) [DS4SG 2026] Vikrant Sahu; Khethavath Sunil Naik; Gagan Raj Gupta

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
20	Research VII: Graphs & Knowledge Representation (Oct 9, 2026, 10:30-12:30, Hall 1)	102	FP-HetHAN: Fingerprint-based Heterogeneous Hypergraph Attention Network for Molecular Property Prediction [Research Track] Lilia Chebbah; Khaled Mohammed Saifuddin; Mehmet Emin Aktas; Esra Akbas
		150	Counting Small Balanced (p, q)-bicliques in Signed Bipartite Graphs [Research Track] MEKALA KIRAN; Apurba Das; Suman Banerjee; Tathagata Ray
		169	Enhancing GNN Representations via Homophily-Aware Subgraphs with Multi-Objective Learning (Short) [Research Track] Tanvir Hossain; Khaled Mohammed Saifuddin; Esra Akbas
		173	CoreEnt: Semantic Coreset Construction for Entity Summarization in Knowledge Graphs [Research Track] Sohel Aman Khan; Raghava Mutharaju; Supratim Shit
		199	AMPKG: Extracting Concept Prerequisites from Multimodal Educational Media (Short) [Research Track] Keshav Gupta; KAPIL GUPTA; Mukesh Mohania; Vikram Goyal
		87	DUSTCAST: Density-Adaptive Multi-Horizon PM2.5 Forecasting for Open-Pit Mine Monitoring (Short) [Research Track] Maimouna Eulali Keita; Shailik Sarkar; Lulwah AlKulaib; Abdulaziz Alhamadani
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
21	Applications IV: Finance, Risk & Operations (Oct 9, 2026, 10:30-12:30, Hall 2)	37	Regime-Aware Deep Learning for Stable Bond Yield Forecasting (Short) [Application, Data and Benchmark Track] Manjula Pilaka; Abhinav Kumar; Aneesh Sreevallabh Chivukula
		107	Who Sits Where? Automated Detection of Director Interlocks in Indian Companies [Application, Data and Benchmark Track] Prateek Sancheti; Kamalakar Karlapalem; Kavita Vemuri
		172	Quantum-Contextual Forecasting for Risk-Aware Portfolio Allocation [Application, Data and Benchmark Track] Debojyoti Seth; Atul Sheel; Irem Onder; Muzaffer Uysal
		161	Sparse Deep Learning and Tensor Analytics for Secure Key Generation and Classification in vOMCI Networks (Short) [Application, Data and Benchmark Track] Venkatesh Natarajan; Manjula Pilaka; Aneesh Sreevallabh Chivukula; Chennupati Rakesh Prasanna; Jeffrey Marius
		110	A Domain Adaptation Approach for Eviction Rate Prediction under Skewed Label Distribution (Short) [Application, Data and Benchmark Track] Shadman Islam Rafi; Maryam Tabar

Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
22	LLM II: Evaluation, Reliability & Reasoning (Oct 9, 2026, 13:30-15:30, Hall 1)	6	Prompt Design Matters: Analyzing Temporal Consistency and Hallucination in LLM-based Dialogue State Tracking (Short) [Large Language Models Track] Medha Aggarwal; Rishu Kumar; Shreya Yadav; Rajiv Misra
		24	Quantifying LLM-as-a-Judge Uncertainty via Prediction Intervals: TubeNet, Tube Loss, and Conformal Prediction (Short) [Large Language Models Track] Prince Chovatiya; Nakul Patel; Pritam Anand
		81	Accuracy is Not Enough: A Divergence-Based Approach to Evaluate Fidelity Loss in Quantized LLMs [Large Language Models Track] Shahzeb Qamar; Lorenz Sparrenberg; Christian Bauckhage; Baha Rababah; Carson Leung; Murat Kantarcioglu; Cuneyt Gurcan Akcora; Rafet Sifa
		186	Models in the Same Family are NOT Trust-Equivalent (Short) [Large Language Models Track] Rohit Raj Rai; Chirag Kothari; Siddhesh Shelke; Yatika Jena; Amit Awekar
		247	What Does an LLM-Agent Leaderboard Rank Actually Compare? (Short) [Large Language Models Track] Wei-Jung Huang
		268	Convergence of Gradient-based Optimization: An LLM-enabled Refinement Approach (Short) [Large Language Models Track] Varun Gambhir; Somshekar M; Deeksha Joshi; Geetika; Surendra kumar; Upasana Ghoshal; Bapi Chatterjee
Session ID	Session / Date, Time & Hall	Paper ID	Paper Title
23	JDSA Special Issue: Language, Vision & Social AI (Oct 9, 2026, 13:30-15:30, Hall 2)	2026-964	Improving Few-shot Stance Detection with MINE: Meta-prompting and In-context N-shot Examples [Journal Track - JDSA] Uwaila Ekhatior
		2026-554	Knowledge-Augmented Multimodal Framework for Detecting and Countering Misogynistic Memes [Journal Track - JDSA] Bharathi Raja Chakravarthi
		2026-2187	Down Syndrome Phenotypic Classification Using Multi-Stage Generative Data Augmentation and Deep Compound Scaling Neural Networks [Journal Track - JDSA] Sushil Kumar
		2026-1229	VisYogaNet: Visibility-Guided Lightweight Network for Yoga Pose Recognition [Journal Track - JDSA] Thushara L
		2026-93	Impact of Hope-Inducing Communication on Online Consumer Sentiment and Engagement [Journal Track - JDSA] Vedika Gupta