IEEE BigData 2024 Program Schedule Washington, DC, USA

Conference time zone: US Eastern Standard Time

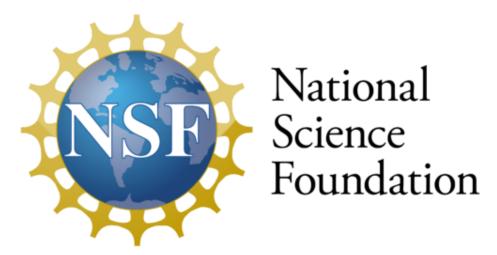
The link to download the BigData 2024 conference proceedings for BigData24 and access the pre recorded videos is:

Meeting Room

Floor	Room
Lobby	CONGRESSIONAL A
Lobby	CONGRESSIONAL B
Lobby	CONGRESSIONAL C
Lobby	CONGRESSIONAL D
Lobby	CONGRESSIONAL E
Lobby	CAPITOL A
Lobby	CAPITOL B
Ballroom	BUNKER HILL
Ballroom	LEXINGTON
Ballroom	CONCORD
Ballroom	COLUMBIA A
Ballroom	COLUMBIA B
Ballroom	COLUMBIA C
Ballroom	REGENCY A
Ballroom	REGENCY B
Ballroom	REGENCY C
Ballroom	REGENCY D
2nd floor	YELLOWSTONE
2nd floor	EVERGLADES
2nd floor	GRAND TETON
2nd floor	BRYCE
2nd floor	YOSEMITE
2nd floor	GLACIER
2nd floor	SEQUOIA
2nd floor	OLYMPIC

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IEEE Big Data 2024 Program Schedule

Washington DC, USA December 15 - December 18, 2024

Keynote Lecture: **60 minutes** (50-min talk + 10-min Q/A) Main conf. regular: **25 mins** (20-minute talk + 5-min Q/A) Main conf. short: **15 minutes** (11-min talk + 4-min Q/A)

Registration: Saturday, Dec 14 16:00-18:00 PM

(Location: Regency Foyer)

Day 1: Sunday, December 15, 2024			
Time	Location	Workshop, Tutorial, Special Symposium, Special Session Chairs	
7:30-17:00	Regency Foyer	Registration	Kunpeng Liu, Dongjin Song
10:00-10:30	Columbia Foyer	Coffee Break	
12:30-14:00		Lunch (on your own)	
16:00-16:30	Columbia Foyer	Coffee Break	
8:30-12:30	Congressional - A	Workshop #15: The 4th International Workshop on Multi-Modal Medical Data Analysis	Bo Zhang
14:00-18:00	Congressional - A	Workshop #48: DCAI: The 3rd International Workshop on Data-Centric AI	Yanjie Fu
8:30-12:30	Congressional - B	Workshop #51: Big Data and Artificial Intelligence for Personalized Health Care	Ryan Benton
9:00-17:00	Congressional - C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea
9:00-17:00	Congressional - D	Workshop #13: The 7th Workshop on Benchmarking, Performance Tuning and Optimization for Big Data Applications (BPOD)	Zhiyuan Chen
8:30-12:30	Capitol Room - A	Workshop #17: The 3rd Workshop on Big Data Analytic in Healthcare	Alex Kuo and Matteo Mantovani
14:00-18:00	Capitol Room - A	Workshop #20: Next-Generation Big Graph Learning and Analytics (Next-Gen-BiGLA)	Xiaofei Zhang

9:00-17:00	Capitol Room - B	Workshop #23: The 5th International Workshop on Big Data & Al Tools, Methods, and Use Cases for Innovative Scientific Discovery (BTSD) 2024	Sangkeun Lee
8:30-12:30	Concord	Workshop #36: Second International Workshop for securing IoT systems using BigData	Cristian Bucur
14:00-18:00	Concord	Workshop #39: The Seventh Workshop on Big Data for Economic and Business Forecasting	Wei Shang
9:00-17:00	Columbia - A	Workshop #7: 2nd Workshop on Al Music Generation with Al Music Competition (AIMG 2024)	Callie Liao
9:00-17:00	Columbia - B	Workshop #38: Workshop on Big Data and Al for Healthcare	Ping Chen
9:00-17:00	Columbia - C	Workshop #9: 4th Workshop on Knowledge Graphs and Big Data In conjunction with the IEEE Big Data 2024	Yuan An
9:00-17:00	Regency - B	High School and Undergrad Symposium	Xuan Wang & Yanjie Fu
9:00-17:00	Regency - C	Special Session: Federated Learning on Big Data	Francesco Piccialli
9:00-17:00	Regency - D	REU Symposium	Xuechen Zhang, Xinhui Zhao, and Xiaokun Yang
9:00-17:00	Yellowstone	Workshop #2: 7th Annual Workshop on Cyber Threat Intelligence and Hunting (CyberHunt 2024)	Vasileios Mavroeidis
9:00-17:00	Everglades	Workshop #46: 7th Workshop on Big Data for CyberSecurity (BigCyber-2024)	Lavanya Elluri
9:00-17:00	Grand Teton	Workshop #3: 2nd workshop on Big Data Applications for Fight against Crime and Terrorism (BDA4FCT)	Georgios Stavropoulos
9:00-17:00	Bryce	Workshop #5: The 9th International Workshop on Application of Big Data for Computational Social Science (ABCSS2024)	Isamu Okada
8:30-12:30	Yosemite	Workshop #4: 8th International Workshop on Applications of Big Data Methods and Technology in the Transport Industry	John Easton

14:00-18:00	Yosemite	Workshop #47: 9th Workshop on Advances in High Dimensional (AdHD) Big Data	Aristidis Vrahatis
9:00-17:00	Sequoia	Special Session: Intelligent Data Mining	Uraz Yavanoglu

Day 2: Monday, December 16, 2024			
8:00-17:30	Registration		
8:00-8:30		Poster Setup	
8:20-9:00	Opening Ceremony Conference Chairs: Chang-Tien Lu (Virginia Tech) Fusheng Wang (Stony Brook U.) PC Chairs: Wei Ding (U. of Massachusetts, Boston) Liping Di (George Mason U.) Ricardo Baeza-Yates (Northeastern U.) I&G Chairs: Kesheng Wu, (Lawrence Berkeley National Lab) Raghu Nambiar (AMD) Luke Jun Huan (Amazon) Steering Committee Chair: Xiaohua (Tony) Hu (Drexel U.) Location: Regency Ballroom		
9:00-10:00	Keynote Speech I Dr. Haixun Wang, Instacart, USA Generative Information Retrieval and E-commerce Location: Regency Ballroom		
10:00-10:30	Columbia Foyer	Coffee Break	
10:00-10:30	Regency Foyer Columbia Foyer	Poster Display (Session Chairs:Kaiqun Fu, Y	⁄ufei Tang)
Time	Location	Session/Workshop	Session Chair
10:30-12:30	Capitol A	D1S1: Foundation Models for Big Data	
10:30-12:30	Capitol B	D1S2: Big Data Learning and Analytics I	
10:30-12:30	Columbia A	D1S3: Big Data Infrastructure I	
10:30-12:30	Columbia C	D1S4: Big Data Science and Foundations I	
10:30-12:30	Congressional A	D1S5: Big Data Management I	
10:30-12:30	Congressional B	D1S6: Big Data Search and Mining I	
10:30-11:30	Columbia B	North American Student Challenge	

		Competition	
9:00-17:00	Congressional D	Workshop #42: From Theory to Practice: Workshop on Large Language and Foundation Models	Tania Cerquitelli
10:30-12:30	Yellowstone	Challenge Cup: Predicting Chess Puzzle Difficulty	Dominik Ślęzak
14:00-18:00	Everglades	Workshop #34: The 8th Annual Workshop on Applications of Artificial Intelligence in the Legal Industry	Han Qin
8:30-12:30	Yosemite	Workshop #8: 4th IEEE Big Data Workshop on Multimodal AI (MMAI 2024)	Lindi Liao
14:00-18:00	Grand Teton	Workshop #6: 10th Workshop on Methods to Improve Big Data Science Projects (MIDP-2024)	Jeffrey Saltz
8:30-12:30	Bryce	Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment Special Session: Understanding New Markets by Data Science, Social Science, and Economics	Teruaki Hayashi Naoki Watanabe Hiroki Sakaji
10:30-12:30	Concord	I&G-1: Generative AI	Kesheng Wu
10:30-12:30	Glacier	Special Session: Federated Learning on Big Data	Francesco Piccialli
10:30-12:30	Congressional C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea
10:30-12:30	Sequoia	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea
12:30-14:00		Lunch	
14:30-16:00	Regency Ballroom	Panel: Big Data and AI: How they benefit each other	Bhavani Thuraisingham
14:00-16:00	Capitol A	D1S7:Data Ecosystem	
14:00-16:00	Capitol B	D1S8: Big Data Learning and Analytics II	
14:00-16:00	Columbia A	D1S9: Big Data Learning and Analytics III	

Columbia B	D1S10: Deep Learning I	
Congressional A	D1S11: Machine Learning Algorithms I	
Congressional B	D1S12: Deep Learning II	
Concord	I&G-2: Big data Infra & Multi-modality	Kesheng Wu
Columbia C	I&G-3: Modeling	Kesheng Wu
Bryce	Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment Special Session: Understanding New Markets by Data Science, Social Science, and Economics	Teruaki Hayashi Naoki Watanabe Hiroki Sakaji
Glacier	Special Session: Federated Learning on Big Data	Francesco Piccialli
Congressional C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea
Sequoia	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea
Columbia Foyer	Coffee Break	
Regency Foyer Columbia Foyer	Poster Display (Session Chairs: Kaiqun Fu, Y	⁄ufei Tang)
Capitol A	D1S13: Big Data Applications I	
Capitol B	D1S14: Big Data Applications II	
Columbia B	D1S15: Big Data Analytics I	
Congressional A	D1S16: Big Data Analytics II	
Congressional B	D1S17: Big Data Analytics III	
Bryce	Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment Special Session: Understanding New	Teruaki Hayashi Naoki Watanabe Hiroki Sakaji
	Congressional A Congressional B Concord Columbia C Bryce Glacier Congressional C Sequoia Columbia Foyer Regency Foyer Columbia Foyer Capitol A Capitol B Columbia B Congressional A Congressional A Congressional B	Congressional A D1S11: Machine Learning Algorithms I Congressional B D1S12: Deep Learning II Concord I&G-2: Big data Infra & Multi-modality Columbia C Bryce Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment Special Session: Understanding New Markets by Data Science, Social Science, and Economics Glacier Special Session: Federated Learning on Big Data Congressional C Special Session: Machine Learning on Big Data Sequoia Special Session: Privacy and Security of Big Data Columbia Foyer Coffee Break Regency Foyer Columbia Foyer Capitol A D1S13: Big Data Applications I Congressional A D1S15: Big Data Analytics II Congressional B D1S17: Big Data Analytics III Bryce Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment

		Markets by Data Science, Social Science, and Economics	
16:30-18:00	Glacier	Special Session: Federated Learning on Big Data	Francesco Piccialli
16:30-18:00	Congressional C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea
16:30-18:00	Sequoia	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea
19:00-21:00		OC Business Meeting	

Day 3: Tuesday, December 17, 2024				
8:30-17:00		Registration (Regency Foyer)		
8:30-9:00		PhD Forum Poster Setup		
9:00-10:00	Keynote Speech II Prof. Cornelia Caragea, USA and U. of Illinois Chicago, USA Improving Semi-Supervised Learning with Pseudo-Margins Location: Regency Ballroom			
10:00-10:30	Columbia Foyer	Coffee Break		
10:00-10:30	Regency Foyer Columbia Foyer	PhD Forum Poster Display (Session Chairs: Feng Chen, Shuhan Yuan)		
Time	Location	Session/Workshop Session Chair		
10:30-12:00	Regency Ballroom	Panel B: Big Data and AI – Shaping the Next Frontier of Data-Driven Intelligence	Duoduo (Lindi) Liao	
10:30-12:30	Capitol A	D2S1: Foundation Models and Analytics		
10:30-12:30	Capitol B	D2S2: Learning from Complex Data		
10:30-12:30	Columbia A	D2S3: Big Data Infrastructure II		
10:30-12:30	Columbia B	D2S4: Big Data Science and Foundations II		
10:30-12:30	Congressional A	D2S5: Big Data Search and Mining II		
10:30-12:30	Congressional B	D2S6: Big Data Applications IV		
8:15-17:00	Congressional D	Workshop #1: 9th Computational Archival Science (CAS) Workshop	Mark Hedges	

10:30-12:30	Columbia C	I&G-4: Business and Energy	Kesheng Wu
10:30-12:30	Yosemite	Special Session: Synergizing Mobility Data for Creating and Discovering Valuable Places	Yukio Ohsawa
10:30-12:30	Grand Teton	Special Session: Social Cognitive Computing in Digital Education and Learning	Jerry Chun-Wei Lin
10:30-12:30	Glacier	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea
10:30-11:30	Concord	PhD Forum: Paper Session	Feng Chen, Shuhan Yuan
11:30-12:30	Concord	PhD Forum Panel: Beyond the Dissertation: Insights into Academic and Industry Careers	Feng Chen
12:30-14:00		Lunch	
14:30-16:00	Regency Ballroom	Panel: Federal Big Data Initiatives and Activities	Liping Di
14:00-16:00	Capitol A	D2S7: Multimodal and Scalable Big Data	
14:00-16:00	Capitol B	D2S8: Link and Graph Mining I	
14:00-16:00	Columbia A	D2S9: Machine Learning Algorithms II	
14:00-16:00	Yosemite	Special Session: Synergizing Mobility Data for Creating and Discovering Valuable Places	Yukio Ohsawa
14:00-16:00	Grand Teton	Special Session: Data-Driven Designation and Implementation of Automated Guided Vehicles	Jerry Chun-Wei Lin
14:00-16:00	Glacier	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea
14:00-17:30	Concord	PhD Forum: Paper Session	Feng Chen, Shuhan Yuan
14:00-17:00	Yellowstone	Workshop #10: International Workshop on Data Engineering and Modeling for AI (DEMAI)	Carlos Ordonez
16:00-16:30	Columbia Foyer	Coffee Break	
16:00-16:30	Regency Foyer Columbia Foyer	PhD Forum Poster Display (Session Chairs: Feng Chen, Shuhan Yuan)	

16:30-17:00	Regency Ballroom	Sponsor Session: IEEE Dataport	
17:30-18:30		Walk to the National Museum of American History 4th St. & Independence Ave. SW Washington, DC 2056	
18:30-21:00	National Museum of the American Indian	Banquet Award Ceremony Social Program	

Day 4: Wednesday, December 18, 2024				
8:30-17:00	Registration (Regency Foyer)			
9:00-10:00		Keynote Speech III Prof. Alexander "Sasha" Rush, Cornell Tech, USA Designing Text Embeddings for the Future Location: Regency Ballroom		
10:00-10:30	Columbia Foyer	Coffee Break		
Time	Location	Session/Workshop	Session Chair	
10:30-12:30	Capitol A	D3S1: Link and Graph Mining II		
10:30-12:30	Capitol B	D3S2: Machine Learning Algorithms III		
10:30-12:30	Columbia A	I&G-5: Recommender Systems	Kesheng Wu	
10:30-12:30	Columbia B	I&G-6: Al4Science	Kesheng Wu	
8:30-12:30	Columbia C	Workshop #24: 2nd International Workshop on Big Data Analytics with Artificial Intelligence for Climate Change	Rajiv Misra	
10:30-16:00	Congressional A	Special Session: HealthCare Data	Ozgun Pinarer	
10:30-12:30	Congressional B	Special Session: Dataspaces and DFFT (Data Free Flow with Trust)	Noboru Koshizuka	
10:30-12:30	Yosemite	Special Session: Synergizing Mobility Data for Creating and Discovering Valuable Places	Yukio Ohsawa	
12:30-14:00	Lunch			
13:00-13:30	Regency Ballroom	Closing Ceremony		

Main Conference Paper Sessions

ID	Title	Authors	Type (Red indicates an online video presentation, not played in the conference room. Access it via the prerecorded video link in the conference program.)
	D1S4: Big Data Science and		
	Foundations I		
BigD 400	Luckiness Normalized Maximum Likelihood-based Change Detection for High-dimensional Graphical Models with Missing Data	Zhongyi Que, Linchuan Xu, and Kenji Yamanishi	Regular
BigD 587	Scalable Sampling for High Utility Patterns	Lamine Diop and Marc Plantevit	Short
BigD 419	A Planner for Scalable Tensor Programs	Tanvir Ahmed Khan and Leonidas Fegaras	Regular
BigD 462	A Full-History Network Dataset for BTC Asset Decentralization Profiling	Ling Cheng, Qian Shao, Fengzhu Zeng, and Feida Zhu	Regular
BigD 592	Synthetic Data Generation for Photovoltaic Systems: Enhancing Accuracy with the Huld Model	Ali AGHAZADEH ARDEBILI, Andreas LIVERA, Antonella Longo, George E. GEORGHIOUS, and Antonio FICARELLA	Short
BigD 638	An Efficient Single-pass Online Computation of Higher-Order Bivariate Statistics	Anton Kochepasov and Ilya Stupakov	Short
BigD 344	Faster Sampling Algorithms for Polytopes with Small Treewidth	Yekun Ke, Xiaoyu Li, Zhao Song, and Tianyi Zhou	Regular
BigD 310	DyMGCN: Dynamic Multi-Graph Convolution Networks for Spatio-Temporal Forecasting	Hexiang Liu, Qilong Han, Jingyu Sheng, Dan Lu, Shanshan Sui, and Hui Sun	Short
	D2S4: Big Data Science and Foundations II		
BigD 665	RPS: A Generic Reservoir Patterns Sampler	Lamine Diop, Marc Plantevit, and Arnaud Soulet	Short
BigD 786	Fairness in Monotone \$k\$-submodular Maximization: Algorithms and Applications	Yanhui Zhu, Samik Basu, and A. Pavan	Short

D:~D		Dagnama Chaumaa Dildau	
BigD	Minimizing Degret in Cocial Media Advertisement	Poonam Sharma, Dildar	Short
844	Minimizing Regret in Social Media Advertisement	Ali, and Suman Banerjee	SHOLL
D:-D	Number of David Communitation in 2D FIR CENT Income	Chongyu He, Zhiwu Xie,	
BigD	Nuclear Pore Segmentation in 3D FIB-SEM Images	Yinlin Chen, and Edward	Ch
778	with Dynamic Cyclical Data Augmentation	Fox	Short
		Yuzhou Chen, Joel	
BigD	Firecast Zigzag Convolutional Network for Wildfire	Castillo, Huikyo Lee, and	
793	Prediction	Yulia R. Gel	Short
BigD	Disentangled Conditional Variational Autoencoder	Asif Ahmed Neloy and	
693	for Unsupervised Anomaly Detection	Maxime Turgeon	Short
		Hiroki Hasegawa,	
	Proposing a Low-Rank Approximation Method with	Kazuyoshi Yata, Yukihiko	
BigD	Mathematical Guarantees for High-Dimensional	Okada, and Jun	
593	Tensor Data	Kunimatsu	Regular
BigD	Learning with Sparsely Permuted Data: A Robust	Abhisek Chakraborty and	
439	Bayesian Approach	Saptati Datta	Regular
		Xinran Wang, Qi Le,	
BigD	ICL: An Incentivized Collaborative Learning	Ahmad Khan, Jie Ding,	
546	Framework	and Ali Anwar	Regular
		Junda Wang, Weijian Li,	
		Han Wang, Hanjia Lyu,	
		Caroline Thirukumaran,	
BigD	CRTRE: Causal Rule Generation with Target Trial	Addisu Mesfin, Hong Yu,	
741	Emulation Framework	and Jiebo Luo	Short
		Yichuan Deng, Zhihang Li,	
BigD	Zero-th Order Algorithm for Softmax Attention	Sridhar Mahadevan, and	
518	Optimization	Zhao Song	Regular
	[Vision Paper] Visual Summary Thought of Large	Yuqing Liu, Yu Wang,	
BigD	Vision-Language Models for Multimodal	Yuwei Cao, Lichao Sun,	
821	Recommendation	and Philip Yu	Short
BigD	Optimal Scheduling Algorithms for Cost-Effective	Liudong Zuo, Pan Lai, and	
887	Bandwidth Reservation in HPNs	Zhong Chen	Short
BigD	Unsupervised Domain Adaptation for Entity Blocking	_	
812	Leveraging Large Language Models	Yan	Short
_		Mohammad Hossein	
		Moslemi, Harini	
BigD		Balamurugan, and	
709	Evaluating Blocking Biases in Entity Matching	Mostafa Milani	Regular
		, , , , , , , , , , , , , , , , , , , ,	-0
	D1S3: Big Data Infrastructure I		
BigD	Stochastic Large-scale Machine Learning Algorithms	Biyi Fang, Diego Klabjan,	
240	with Distributed Features and Observations	and Truong Vo	Regular
		Hooyoung Ahn,	
		Seonyoung Kim, Yoomi	
		Park, Woojong Han,	
BigD	MPI Allgather Utilizing CXL Shared Memory Pool in	Shinyoung Ahn, Tu Tran,	
255	Multi-Node Computing Systems	Bharath Ramesh, Hari	Short

		Subramoni, and	
		Dhabaleswar K. Panda	
BigD	Large-Scale Knowledge Graph Embeddings in	Bedirhan Gergin and	
313	Apache Spark	Charalampos Chelmis	Regular
BigD	Key Compression Limits for \$k\$-Minimum Value	Charlie Dickens, Eric Bax,	
329	Sketches	and Alexander Saydakov	Short
		Dat Nguyen, Muhammad	
BigD	Cachelt: Application-Agnostic Dynamic Caching for	Rafid, Nathanael Santoso,	
314	Big Data Analytics	and Khanh Nguyen	Regular
		Arsème Vadèle Djeufack	
BigD	Optimizing Privacy While Limiting Information Loss	Nanfack, Gaël Le Mahec,	
373	in Distributed Data Anonymization	and Gilles Dequen	Short
	D2S3: Big Data Infrastructure II		
		Shinyoung Ahn,	
		Sookwang Lee,	
BigD	Efficient Data-parallel Distributed DNN Training for	Hyeonseong Choi, and	
320	Big Dataset under Heterogeneous GPU Cluster	Jaehyun Lee	Regular
BigD	DBRepo: A Data Repository System for Research	Martin Weise and	
569	Data in Databases	Andreas Rauber	Regular
BigD	Common Pitfalls with Data Deduplication	Luke Schultz, Owen	J
423	Parameters and Metrics	Randall, and Paul Lu	Regular
BigD	Distributed Data Analysis Workflow System across	Siwoon Son, Seong-Hwan	Tiogaia.
735	Multiple Data Hubs	Kim, and Heesun Won	Short
BigD	Durin: CPU-FPGA Heterogeneous Platform for	Se-Min Lim, Esmerald	Shore
586	Scalable Low-Dimensional Data Clustering	Aliaj, and Sang-Woo Jun	Short
300	Section Low Dimensional Data Clastering	lason Ofeidis, Diego	Shore
BigD	An Overview of the Data-Loader Landscape:	Kiedanski, and Leandros	
611	Comparative Performance Analysis	Tassiulas	Short
BigD	Comparative refrormance Analysis	Connor Howe, Mohsin	SHOLL
547	Towards Scalable Quantum Poneator Natworks		Short
	Towards Scalable Quantum Repeater Networks	Aziz, and Ali Anwar	SHOLL
BigD	Improving Data Science Applications with a Visual	Lucas Miguel Ponce and	Danielan
461	Cross-Platform Execution Environment	Dorgival Guedes	Regular
	D1S5: Big Data Management I		
BigD	Towards True Multi-interest Recommendation:	Jaeri Lee, Jeongin Yun,	
447	Enhanced Scheme for Balanced Interest Training	and U Kang	Regular
		Qi Zhang, Lance Kaplan,	
	Uncertainty-Aware Influence Maximization:	Audun Jøsang, Dong	
BigD	Enhancing Propagation in Competitive Social	Hyun Jeong, Feng Chen,	
823	Networks with Subjective Logic	and Jin-Hee Cho	Short
	Scalable Big Spatial Data Processing with SQL Query	Rahul Sahni, Xiaozheng	
BigD	Compilation and Distributed Morsel-driven	Zhang, Sudip Chatterjee,	
722	Parallelism	and Suprio Ray	Regular
		Mozhgan Karimi, Len	
BigD	Session-based News Recommendation Using	Feremans, Boris Cule, and	
508	Cohesive Patterns	Bart Goethals	Short

		Zhong Chen, Yi He, Di Wu,	
	\$\ell_{1,2}\$-Norm and CUR Decomposition based	Liudong Zuo, Keren Li,	
BigD	Sparse Online Active Learning for Data Streams with	Wenbin Zhang, and	
695	Streaming Features	Zhiqiang Deng	Regular
033	Streaming reatures	Antheas Kapenekakis,	Negulai
		Daniele Dell'Aglio,	
		Charles Vesteghem,	
		Laurids Poulsen, Martin	
		Bøgsted, Minos	
BigD	Synthesizing Accurate Relational Data under	Garofalakis, and Katja	
644	Differential Privacy	Hose	Short
	2	Liangwei Yang, Zhiwei Liu,	0.1.0.10
		Jianguo Zhang, Rithesh	
		Murthy, Shelby Heinecke,	
BigD	Personalized Multi-task Training for Recommender	Huan Wang, Caiming	
265	System	Xiong, and Philip S. Yu	Regular
	·	Nicolas Blumenröhr,	
BigD	Vision Paper: FAIR Digital Objects for Realising	Philipp-Joachim Ost, Felix	
589	Globally Aligned Data Spaces	Kraus, and Achim Streit	Regular
		Zhuohan Xu, Dejun Teng,	
BigD	Understanding the Intrinsic Characteristics of Spatial	Zhaohui Peng, and	
370	Partitioning in Distributed Spatial Join	Fusheng Wang	Regular
	Leveraging LLMs for Fair Data Labeling and	Ibrahim Mohamed	
BigD	Validation in Crowdsourcing Environments [Vision	Serouis and Florence	
312	paper]	Sèdes	Short
		Mao-Lin Li, K. Selçuk	
BigD		Candan, and Maria Luisa	
433	Causally Informed Factorization Machines	Sapino	Short
		Zhenrui Yue, Huimin	
BigD	Transferable Sequential Recommendation via Vector	Zeng, Yang Zhang, Julian	
420	Quantized Meta Learning	McAuley, and Dong Wang	Short
	D1S6: Big Data Search and Mining I		
		Srivatsa Mallapragada,	
	Multi-Modality Transformer for E-Commerce:	Ying Xie, Varsha Rani	
BigD	Inferring User Purchase Intention to Bridge the	Chawan, Zeyad Hailat,	
267	Query-Product Gap	and Yuanbo Wang	Regular
BigD	SHRINK: Data Compression by Semantic Extraction	Guoyou Sun, Panagiotis	
401	and Residuals Encoding	Karras, and Qi Zhang	Regular
BigD	On Modeling Adaptive Index Management as	Gajendra Doniparthi, Tim	
487	Adversarial Search	Otto, and Stefan Dessloch	Regular
		Bin Dong, Avinash Nayak,	
		Kesheng Wu, Verónica	
		Rodríguez Tribaldos,	
		Jonathan Ajo-Franklin,	
DieD		Qile Zhang, Suren Byna,	
BigD	Toncor Coarch, Darallal Cimilarity Coarch on Toncor	Fan Guo, Patrick Dobson,	Pogular
317	TensorSearch: Parallel Similarity Search on Tensors	and Alexander Sim	Regular

		Zongli Jiang, Yirui Tan,	
BigD	GNN-Based Persistent K-core Community Search in	Guoxin Chen, Fangda Guo, Jinli Zhang, and	
383	Temporal Graphs	Xiaolu Bai	Regular
	P P P P P P P P P P P P P P P P P P P	Daeyoung Roh, Donghee	
BigD	Closer through commonality: Enhancing hypergraph	Han, Daehee Kim, Keejun	
225	contrastive learning with shared groups	Han, and Mun Yong Yi	Regular
	AGO-FT: An adaptive guided oversampling based on		
BigD	fast space division and trustworthy sampling space	Yi Deng, Min Wu, and Yan	
304	for imbalanced noisy datasets	Ma	Regular
	D2S5: Big Data Search and Mining		
	II .		
		Jingfan Meng, Huayi	
BigD	CANDE: A Lightweight Locality-Sensitive Hashing	Wang, Kexin Rong, and	
427	Add-on for Candidate-Based Distribution Estimation	Jun Xu	Regular
BigD	Optimizing Diverse Information Exposure in Social	Jonathan Colin and Silviu	Dogulos
658	Graphs	Maniu Muhammad Ifte Khairul	Regular
		Islam, Khaled	
		Mohammed Saifuddin,	
BigD	DyGCL: Dynamic Graph Contrastive Learning For	Tanvir Hossain, and Esra	
539	Event Prediction	Akbas	Regular
BigD	Fast Distributed Memory Parallel Algorithms for	Maleq Khan and Sharon	
705	Finding Connected Components in Large Graphs	Boddu	Regular
		Jason Niu, Ilya Amburg,	
BigD	Retrieving Top-k Hyperedge Triplets: Models and	Sinan Aksoy, and Ahmet	Describes
499 BigD	Applications	Erdem Sariyuce Tianyi Chen and	Regular
617	Parallel Motif-Based Community Detection	Charalampos Tsourakakis	Regular
BigD	Zero-Shot Relational Learning for Multimodal	Rui Cai, Shichao Pei, and	певани
642	Knowledge Graphs	Xiangliang Zhang	Regular
BigD	Automated Polynomial Filter Learning for Graph	Wendi Yu, Zhichao Hou,	
691	Neural Networks	and Xiaorui Liu	Regular
	D2S7: Multimodal and Scalable Big		
	Data		
		Eugenio Noda, Luna	
		Huang, Trinetta Chong,	
		Shruti Jain, Andreas	
	A machine learning pineline for marging and	Madestam, Anna	
BigD	A machine-learning pipeline for merging and georeferencing very large archives of historical aerial	Tompsett, Hannah Druckenmiller, and	
836	photographs	Solomon Hsiang	Regular
	Custom Accessors: Enabling Scalable Data Ingestion,	Vito Giovanni Castellana,	-6
BigD	(Re-)Organization, and Analysis on Distributed	Burcu Mutlu, Ian Di Dio	
759	Systems	Lavore, Jesun Firoz,	Regular

		Katherine Wolf, Marco	
		Minutoli, and John Feo	
BigD	Efficient Point-to-Subspace ANNS in Manhattan and	Jingfan Meng, Huayi	
711	Lp Space by LSH Pruning	Wang, and Jun Xu	Regular
/11	LP Space by LSH Fruining	Khondoker Mirazul	Negulai
Dia D	QualityNaty Franchounded Lossy Compression	Mumenin, Dong Dai,	
BigD	QualityNet: Error-bounded Lossy Compression Quality Prediction via Deep Surrogate	Jinzhen Wang, and Sheng Di	Pogular
779	Quality Prediction via Deep Surrogate		Regular
D:~D	A Chindren of Data Data Duga in Du Tarah with a Facus	Rubayet Rahman Rongon,	
BigD	A Study of Data-Path Bugs in PyTorch with a Focus	Chen Cao, and Xuechen	Dogular
811	on Memory Management	Zhang	Regular
D:-D	Freshorting Took Communication Techniques and	Md Moinul Islam, Usman	
BigD	Evaluating Text Summarization Techniques and	Muhammad, and Mourad	
867	Factual Consistency with Language Models	Oussalah	Short
		Usman Naseem,	
		Surendrabikram Thapa,	
		Siddhant Shah,	
		Mohammad Salman, Qi	
D: D	CAFEN . T	Zhang, Junaid Rashid,	
BigD	SAFENet: Towards a Robust Suicide Assessment	Liang Hu, and Imran	D I
879	Using Selective Prediction Framework	Razzak	Regular
D: D	5 . 6	Ashirbad Mishra, Shad	
BigD	Fast Sentence Classification using Word	Kirmani, and Kamesh	
767	Co-occurrence Graphs	Madduri	Regular
	D2S8: Link and Graph Mining I		
		Antonios Skevis, George	
BigD	A Novel Reverse Random Hyperplane Projection	Klioumis, and Nikos	
394	Scheme and Its Effect on Mining Sensor Streams	Giatrakos	Short
	ID and Graph View Contrastive Learning with		
BigD	Multi-View Attention Fusion for Sequential	Xiaofan Zhou and Kyumin	
770	Recommendation	Lee	Regular
		Yuxin Tang, Mangesh	
BigD	Monarch: Distributed Butterfly Counting for	Bendre, and Mahashweta	
410	Large-scale Bipartite Graph	Das	Short
		Chirag Shah, Wade	
		Darnell, Hannah Collier,	
	Enhancing Discoverability and Management of	Harold Shanafield,	
BigD	Atmospheric Data at Scale: Solutions from the ARM	Michael Giansiracusa,	
421	Data Center	and Giri Prakash	Short
	Beyond Quantile Methods: Improved Top-K	Jinrui Gou, Yifan Liu,	
BigD	Threshold Estimation for Traditional and Learned	Minghao Shao, and	
436	Sparse Indexes	Torsten Suel	Short
		Zaiyi Zheng, Yushun	
	KG-CF: Knowledge Graph Completion with Context	Dong, Song Wang,	
BigD	Filtering under the Guidance of Large Language	Haochen Liu, Qi Wang,	
520	Models	and Jundong Li	Short
		-	

		Nach a tria	
		Mahsa Khazaei, Azim	
BigD	Multiscale Dubuc: A New Similarity Measure for	Ahmadzadeh, and Krishna	
604	Time Series	Rukmini Puthucode	Short
BigD	DifStoryGen: Diffusion-Based Storytelling Algorithm	Alireza Nouri and M.	
298	with Distributed Attention	Shahriar Hossain	Short
		Xiang Li, Gagan Agrawal,	
BigD	Federated Contrastive Learning of Graph-Level	Rajiv Ramnath, and	
494	Representations	Ruoming Jin	Short
	D3S1: Link and Graph Mining II		
	Norma: A Framework for Finding Threshold		
BigD	Associations Between Continuous Variables Using	Md Mahin and Christoph	
652	Point-wise Functions	F Eick	Short
032	Enhancing Graph Neural Networks with Limited	Quan Li, Tianxiang Zhao,	Short
BigD	Labeled Data by Actively Distilling Knowledge from	Lingwei Chen, Junjie Xu,	
321	Large Language Models	and Suhang Wang	Short
			SHOLL
BigD	Feature Interaction Detection in Big Data Through a	Matthew Fried, Honggang	G1 .
681	New Choquet Integral based Deep Neural Network	Wang, and Hua Fang	Short
		Olawumi Olasunkanmi,	
		Evan Morris, Yaphet	
	Explainable Enrichment-Driven GrAph Reasoner	Kebede, Harlin Lee,	
BigD	(EDGAR) for Large Knowledge Graphs with	Stanley Ahalt, Alexander	
682	Applications in Drug Repurposing	Tropsha, and Chris Bizon	Short
		Hyunju Oh, Wei Zhang,	
		Christopher Rickett,	
BigD	Evaluating Performance Trade-offs of Caching	Sreenivas R. Sukumar,	
747	Strategies for AI-Powered Querying Systems	and Suren Byna	Short
		Masafumi Iwanaga, Keishi	
BigD	[Vision Paper] Next Topic Recommendation for	Tajima, and Yoko	
882	Influencers on Social Media	Yamakata	Short
BigD	WalkBayes: Robust Node Classification via Bayesian		
851	Inference and Random Walks under Perturbations	Shuqi He and Jun Song	Short
		Mekala Kiran, Apurba	Short
BigD 873	Efficient counting of balanced (2, k)-bicliques in	' '	Chart
0/3	Signed Bipartite Graphs	Das, and Suman Banerjee	SHOLL
	D1S1: Foundation Models for Big		
	Data		
		Jorge Quesada, Zoe	
		Fowler, Mohammad	
		Alotaibi, Mohit	
BigD	Benchmarking Human and Automated Prompting in	Prabhushankar, and	
497	the Segment Anything Model	Ghassan AlRegib	Regular
	, <u>, , , , , , , , , , , , , , , , , , </u>	Jawad Ibn Ahad, Rafeed	J
		Mohammad Sultan,	
		Abraham Kaikobad, Fuad	
		Rahman, Mohammad	
BiaD	Empowering Meta-Analysis: Loveraging Large	Ruhul Amin, Nabeel	
BigD	Empowering Meta-Analysis: Leveraging Large		Pogular
636	Language Models for Scientific Synthesis	Mohammed, and Shafin	Regular

		Rahman	
	Prompt Chaining-Assisted Malware Detection: A		
D: D	Hybrid Approach Utilizing Fine-Tuned LLMs and	Neha Mohan Kumar,	
BigD	Domain Knowledge-Enriched Cybersecurity	Fahmida Tasnim Lisa, and	
646	Knowledge Graphs	Sheikh Rabiul Islam	Short
	<u> </u>	Sikun Guo, Amir	
BigD	[Vision Paper] Embracing Foundation Models for	Shariatmadari, Guangzhi	
491	Advancing Scientific Discovery	Xiong, and Aidong Zhang	Regular
	Automatic Prompt Generation and Optimization by		
BigD	Leveraging Large Language Models to Enhance		
216	Few-Shot Learning in Biomedical Tasks	Yiwen Shi and Xiaohua Hu	Regular
BigD	Resources Construction and LLM Fine-tuning for	Bingjiao Wang, Qinglei	
774	Education of Computer Science	Zeng, and Yong Zhang	Regular
	D2S1: Foundation Models and	(Best Paper Award)	
	Analytics	(best rapel Award)	
		Md. Nazmus Sadat Samin,	
		Jawad Ibn Ahad, Tanjila	
		Ahmed Medha, Fuad	
		Rahman, Mohammad	
		Ruhul Amin, Nabeel	
BigD	BanglaDialecto: An End-to-End AI-Powered Regional	Mohammed, and Shafin	
889	Speech Standardization	Rahman	Regular
BigD	Performance Characterization of Expert Router for	Josef Pichlmeier, Philipp	
647	Scalable LLM Inference	Ross, and Andre Luckow	Short
		Raquib Bin Yousuf,	
		Nicholas Defelice,	
		Mandar Sharma,	
BigD	Data Augmentations to support Speculative	Shengzhe Xu, and Naren	Regular 6 (Best
827	Reasoning in LLMs	Ramakrishnan	Paper Award)
		Quan Tran, Suong Hoang,	
BigD	TabularFM: An Open Framework For Tabular	Lam Nguyen, Dzung Phan,	
440	Foundational Models	and Thanh Lam Hoang	Short
		Hongjie Chen, Ryan Rossi,	
		Sungchul Kim, Kanak	
BigD	A Study of Foundation Models for Large-scale	Mahadik, and Hoda	
252	Time-series Forecasting	Eldardiry	Short
D: = D	Zene ab at IIM anided Counterfeet of County	Amrita Bhattacharjee,	
BigD	Zero-shot LLM-guided Counterfactual Generation: A	Raha Moraffah, Joshua	Cht
852	Case Study on NLP Model Evaluation	Garland, and Huan Liu	Short
BigD	Beyond Human Vision: The Role of Large Vision	Prateek Verma, Minh-Hao	Ch
507	Language Models in Microscope Image Analysis	Van, and Xintao Wu	Short
D		Shenyang Liu, Yang Gao,	
BigD	StyleRec: A Benchmark Dataset for Prompt Recovery	Shaoyan Zhai, and Liqiang	
816	in Writing Style Transformation	Wang	Short

		A I Al I III C	
		Azal Ahmad Khan, Sayan	
		Alam, Xinran Wang,	
		Ahmad Faraz Khan,	
BigD	Mitigating Sycophancy in Large Language Models via	Debanga Raj Neog, and	
866	Direct Preference Optimization	Ali Anwar	Short
		Jinlin Wu, Xusheng Liang,	
BigD	SurgBox: Agent-Driven Operating Room Sandbox	Xuexue Bai, and Zhen	
872	with Surgery Copilot	Chen	Short
072	with surgery copiler	Azal Ahmad Khan, Ahmad	Shore
D:~D	Developed Forderested Learning Techniques		
BigD	Personalized Federated Learning Techniques:	Faraz Khan, Haidar Ali,	
835	Empirical Analysis	and Ali Anwar	Short
	D1S7: Data Ecosystem		
BigD	Calibrating Practical Privacy Risks for Differentially	Yuechun Gu and Keke	
818	Private Machine Learning	Chen	Regular
		Emanuela Marasco, Nora	
BigD	Vision Paper: Are Identity Verification Systems	McDonald, and Vivian	
238	Adequately Tailored for Neurodiverse Individuals?	Genaro Motti	Short
	, , , , , , , , , , , , , , , , , , , ,	Alycia Noel Carey, Karuna	
BigD	DP-TabICL: In-Context Learning with Differentially	Bhaila, Kennedy	
330	Private Tabular Data	Edemacu, and Xintao Wu	Short
330	Filvate labulal Data		311011
D. D	Construction Construction Construction	Eray Dogan, Meghdad	
BigD	SecureSphere: Advancing Security and Robustness in		
350	Query Processing over Outsourced Data	Binnig	Short
BigD	XSub: Explanation-Driven Adversarial Attack against	Kiana Vu, Phung Lai, and	
736	Black-box Classifiers via Feature Substitution	Truc Nguyen	Short
BigD	Factify: An Automated Fact-Checker for Web	Ademola Adesokan and	
746	Information	Shady Elbassuoni	Short
BigD	Reconsider Time Series Analysis for Insider Threat	Chia-Cheng Chen and	
885	Detection	Hsing-Kuo Pao	Short
		Jiaxiang Tang, Zeshan	
		Fayyaz, Mohammad	
	HERL: Tiered Federated Learning with Adaptive	Salahuddin, Raouf	
BigD	Homomorphic Encryption using Reinforcement	Boutaba, Zhi-Li Zhang,	
716	Learning	and Ali Anwar	Short
BigD	Challenging Fairness: A Comprehensive Exploration	Shahnewaz Karim Sakib	5.1010
_	of Bias in LLM-Based Recommendations		Short
761	OF DIAS III LLIVI-DASEU RECOMMENDATIONS	and Anindya Bijoy Das	SHULL
		Peiyu Li, Omar Bahri,	
		Soukaina Filali	
BigD	Reliable Time Series Counterfactual Explanations	Boubrahimi, and Shah	
808	Guided by ShapeDBA	Muhammad Hamdi	Short
		Paramita Das, Sai	
		Keerthana Karnam,	
BigD	Social Biases in Knowledge Representations of	Aditya Soni, and Animesh	
Digu	Social blases in Knowledge Representations of		
843	Wikidata separates Global North from Global South	Mukherjee	Short
_	_ ·	Mukherjee	Short
_	_ ·	Mukherjee Xuan Zhao, Simone	Short

		Lobo, Siamak Ghodsi,	
		Klaus Broelemann,	
		Steffen Staab, and Gjergji	
		Kasneci	
		Varun Chandrasekaran,	
		i i	
D:~D		Suman Banerjee, Diego	
BigD	His wayshing! For departed Learning with Drivery	Perino, and Nicolas	Dogulos
306	Hierarchical Federated Learning with Privacy	Kourtellis	Regular
D: D	DCDD A D D	Xiaoying Liu, Juanjuan	
BigD	RCDP: A Privacy-Preserving Approach for	Zhao, Xitong Gao, and	B I
525	Synthesizing Realistic Commuting Data	Kejiang Ye	Regular
		Xiujin Shi, Naiwen Sun,	
BigD	FedGSDW: Enhancing Federated Learning	Jiawei Gong, and	
284	Robustness against Model Poisoning Attack	Shoujian Yu	Short
	D2S2: Learning from Complex Data		
BigD	NysAct: A Scalable Preconditioned Gradient Descent	Hyunseok Seung, Jaewoo	
766	using Nystrom Approximation	Lee, and Hyunsuk Ko	Short
		Jayalakshmi Mangalagiri,	
BigD	A Progressive Meta-Algorithm for Large and	Aryya Gangopadhyay, and	
768	Seamless Super Resolution Images	David Chapman	Short
	Large Scale Evaluation of Deep Learning-based	Temitope Adeyeha,	
BigD	Explainable Solar Flare Forecasting Models with	Chetraj Pandey, and	
697	Attribution-based Proximity Analysis	Berkay Aydin	Short
	Impact of Noise in Large Real-World Datasets on	, ,	
BigD	Semi-Supervised Object Detection: A Case Study of	Bhavyesh Sajja and Seon	
775	Homeless Encampments Detection	Ho Kim	Short
BigD	Boosting Time Series Prediction of Extreme Events	Jimeng Shi, Azam Shirali,	
671	by Reweighting and Fine-tuning	and Giri Narasimhan	Short
	, , ,	Minh-Son Dao, Koji	
BigD	Spatial-temporal Graph Transformer Network for	Zettsu, and Duy-Tang	
777	Spatial-temporal Forecasting	Hoang	Short
		Sarah Alnegheimish,	
BigD		Laure Berti-Équille, and	
788	Benchmarking in the Service of the End-User	Kalyan Veeramachaneni	Short
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Benjamin Cobb, Ricardo	
BigD	Clustering and Topic Discovery of Multiway Data via	Velasquez, Richard	
813	Joint-NCMTF	Vuduc, and Haesun Park	Short
		Pouya Hosseinzadeh,	
		Soukaina Filali	
BigD	ACTS: Adaptive Counterfactual Explanations for	Boubrahimi, and Shah	
826	Time Series Data Using Barycenters [Vision Paper]	Muhammad Hamdi	Short
	D1S2: Big Data Learning and		
	Analytics I		
DicD		Monhin Hua Vufan Mana	
BigD	Unraveling Intricacies: A Decomposition Approach	Wenbin Hua, Yufan Wang,	Pogular
228	for Few-Shot Multi-Intent Spoken Language	Rui Fan, Xinhui Tu, and	Regular

	Understanding	Tingting He	
BigD	Context-Aware Diffusion-based Sequential		
859	Recommendation	Di You and Kyumin Lee	Regular
BigD		Eric Bax, Arundhyoti	
247	Early Stopping Based on Repeated Significance	Sarkar, and Alex Shtoff	Regular
		Hongjie Chen, Aaron	
		Beachnau, Panos	
		Thomas, Pranav	
BigD	LIVE-ITS: LSH-based Interactive Visualization	Maneriker, Josh Kimball,	
279	Explorer for Large-Scale Incomplete Time Series	and Ryan Rossi	Regular
D:~D	A Cycon Looyning Approach to Efficient Image	Mahtab Movahhedrad,	
BigD	A Green Learning Approach to Efficient Image	Zijing Chen, and CC. Jay Kuo	Dogular
355	Demosaicking	1.1.0	Regular
	Aligning the Representation of Knowledge Graph	Zefan Zeng, Qing Cheng, Xingchen Hu, Zhong Liu,	
BigD	and Large Language Model for Causal Question	Jingke Shen, and Yahao	
253	Answering	Zhang	Regular
233	7.11.01.01.11.15	Yu-Fei Shih, An-Zi Yen,	
BigD	Visual Lifelog Retrieval through	Hen-Hsen Huang, and	
465	Captioning-Enhanced Interpretation	Hsin-Hsi Chen	Short
	D1S8: Big Data Learning and		
	Analytics II		
		Shaan Pakala, Bryce Graw,	
		Dawon Ahn, Tam Dinh,	
		Mehnaz Tabassum	
D: D	A to continue Both College Blocking at the Tourist	Mahin, Vassilis Tsotras, Jia	
BigD	Automating Data Science Pipelines with Tensor	Chen, and Evangelos E.	Dogulos
369 BiaD	Completion	Papalexakis	Regular
BigD 415	MAcPNN: Mutual Assisted Learning on Data Streams with Temporal Dependence	Federico Giannini and Emanuele Della Valle	Regular
413	with temporal Dependence	Ejan Shakya, Haritha	Regulai
RigD	Improving CLIP for Biomedical Retrieval: A	Prasad Rayakota, and	
438	Multi-Margin Contrastive Loss Approach	Pei-Chi Huang	Regular
130	Water Wargin Contrastive 2000 Approach	Hong Zhao, Huyunting	Regulai
		Huang, Tonglin Zhang,	
		Baijian Yang, Jin	
BigD	Unsupervised Machine Learning for Detecting and	Wei-Kocsis, and Songlin	
288	Locating Human-Made Objects in 3D Point Cloud	Fei	Short
		Saqib Azim, Mai Nguyen,	
		Daniel Crawl, Jessica	
		Block, Rawaf Al Rawaf,	
		Francesca Hart, Mark	
BigD	Near Real-Time Wildfire Damage Assessment using	Campbell, Robert Scott,	
798	Aerial Thermal Imagery and Machine Learning	and Ilkay Altintas	Short
BigD	Leveraging Spatio-Temporal Locality in Linear Model	Annunziata D'Aversa,	
385	Trees for Multi-Step Time Series Forecasting	Gianvito Pio, and	Short

	Michelangelo Ceci	
A Comprehensive Forecasting Framework based on		
_		Regular
ana Aajastinent		Negulai
East Second-order Method for Neural Networks		
		Regular
	ZIIOU	Regulai
Analytics III		
Accurate Coupled Tensor Factorization with	SeungJoo Lee, Yong-chan	
Knowledge Graph	Park, and U Kang	Regular
	Vedant Khandelwal,	
A Domain-Agnostic Neurosymbolic Approach for Big	Manas Gaur, Ugur	
Social Data Analysis: Evaluating Mental Health	Kursuncu, Valerie Shalin,	
Sentiment on Social Media during COVID-19	and Amit Sheth	Regular
	Xiao Li, Jaemoon Lee,	
Attention Based Machine Learning Methods for Data	Anand Rangarajan, and	
Reduction with Guaranteed Error Bounds	Sanjay Ranka	Regular
	Everett Lewark, Matthew	
	Young, Paahuni	
	Khandelwal, Sangmi	
Periscope: A Framework for Visualizations of	Pallickara, and Shrideep	
Multiresolution Spatiotemporal Data at Scale	Pallickara	Short
	Farah Saeed, Mohammed	
LLM4cast: Repurposed LLM for Viral Disease	Aldosari, Budak Arpinar,	
Forecasting	and John A. Miller	Short
	Shreen Gul, Mohamed	
FisherMask: Enhancing Neural Network Labeling	Elmahallawy, Sanjay	
Efficiency in Image Classification Using Fisher	Madria, and Ardhendu	
Information	Tripathy	Short
	Oumaima Badi, Maxime	
	Devanne, Ali	
	Ismail-Fawaz, Javidan	
	Abdullayev, Vincent	
	Lemaire, Stefano Berretti,	
COCALITE: A Hybrid Model COmbining CAtch22 and	Jonathan Weber, and	
LITE for Time Series Classification	Germain Forestier	Short
Perturbation-driven data augmentation for time		
series anomaly detection improvement in predictive	Hyeyoung Lee, Sangkyun	
maintenance	Lee, and Sungjoon Choi	Short
	Qi Li, Tzu-Chen Chiu,	
	Hsiang-Wei Huang,	
VideoBadminton: A Video Dataset for Badminton	Min-Te Sun, and	
Action Recognition	Wei-Shinn Ku	Short
	Knowledge Graph A Domain-Agnostic Neurosymbolic Approach for Big Social Data Analysis: Evaluating Mental Health Sentiment on Social Media during COVID-19 Attention Based Machine Learning Methods for Data Reduction with Guaranteed Error Bounds Periscope: A Framework for Visualizations of Multiresolution Spatiotemporal Data at Scale LLM4cast: Repurposed LLM for Viral Disease Forecasting FisherMask: Enhancing Neural Network Labeling Efficiency in Image Classification Using Fisher Information COCALITE: A Hybrid Model COmbining CAtch22 and LITE for Time Series Classification Perturbation-driven data augmentation for time series anomaly detection improvement in predictive maintenance VideoBadminton: A Video Dataset for Badminton	Multi-Stage Hierarchical Forecasting Reconciliation and Adjustment Fast Second-order Method for Neural Networks under Small Treewidth Setting D1S9: Big Data Learning and Analytics III Accurate Coupled Tensor Factorization with Knowledge Graph A Domain-Agnostic Neurosymbolic Approach for Big Social Data Analysis: Evaluating Mental Health Sentiment on Social Media during COVID-19 Attention Based Machine Learning Methods for Data Reduction with Guaranteed Error Bounds Periscope: A Framework for Visualizations of Multiresolution Spatiotemporal Data at Scale LLM4cast: Repurposed LLM for Viral Disease Forecasting FisherMask: Enhancing Neural Network Labeling Efficiency in Image Classification Using Fisher Information August Model Combining CAtch22 and LITE for Time Series Classification Perturbation-driven data augmentation for time series anomaly detection improvement in predictive maint-ance VideoBadminton: A Video Dataset for Badminton Analytics III Xiao Li, Jaemoon Lee, Anand Rangarajan, and Sanjay Ranka Everett Lewark, Matthew Young, Paahuni Khandelwal, Sangmi Pallickara, and Shrideep Pallickara Farah Saeed, Mohammed Aldosari, Budak Arpinar, and John A. Miller Shreen Gul, Mohamed Elmahallawy, Sanjay Madria, and Ardhendu Tripathy Oumaima Badi, Maxime Devanne, Ali Ismail-Fawaz, Javidan Abdullayev, Vincent Lemaire, Stefano Berretti, Jonathan Weber, and Germain Forestier Perturbation-driven data augmentation for time series anomaly detection improvement in predictive maintenance VideoBadminton: A Video Dataset for Badminton

	Negative Sample Enhancement Strategy to Improve		
BigD	Contrastive Learning for Unsupervised Sentence		
482	Representation	Hao Li and Chunzhi Xie	Short
	•	Pranav Deepak Tanna,	
		Siddharth Khare, Sanyam	
		Sanjay Jain, Shivodit Raj	
BigD	Optimizing Liquid Neural Networks: A comparative	Vishnoi, Samay Roy, and	
549	study of LTCs and CFCs	Jagat Sesh Challa	Short
BigD	•	Helia Hedayati and Saeed	
413	DataInsight : Big Data Analytics Services	Samet	Short
BigD	Federated Learning under Sample Selection		
496	Heterogeneity	Huy Mai and Xintao Wu	Short
BigD	Ternary Logit Distillation via Non-Target Classes	Ninghua Dong, Zhen Liu,	
548	Decomposition	Xiang He, and Yiran Li	Short
		Hang Yin, Yao Su, Liping	
		Liu, Thomas Hartvigsen,	
BigD	SkipSNN: Efficiently Classifying Spike Trains with	Xin Dai, and Xiangnan	
402	Event-attention	Kong	Short
BigD	Deep Learning Service for Efficient Data Distribution	Xiaoke Zhu, Qi Zhang, Wei	
311	Aware Sorting	Zhou, and Ling Liu	Short
		Joël Roman Ky, Bertrand	
		Mathieu, Abdelkader	
BigD	CATS: Contrastive learning for Anomaly detection in	Lahmadi, and Raouf	
393	Time Series	Boutaba	Short
		Deheng Xu, Yun Li,	
BigD	Incomplete Multi-kernel k-means Clustering With	Yun-Hao Yuan, Jipeng	
541	Fractional-order Embedding	Qiang, and Yi Zhu	Regular
	D2S6: Big Data Analytics IV		
		Zihao Xu, Peter	
		Nordström, Sina	
		Sheikholeslami, Ahmad	
BigD	A Semi-Supervised Model for Non-Cellular Elements	Al-Shishtawy, and	
557	Segmentation in Microscopy Images of Wood	Vladimir Vlassov	Short
BigD	Risk Diversification Strategy with Moving Average	Yuki Hayashi and	
870	Reversion for Automatic Portfolio Optimization	Atsuyoshi Nakamura	Regular
		Joshua DeOliveira, Walter	
BigD	GAN Stabilization Under Practical Training	Gerych, and Elke	
537	Assumptions	Rundensteiner	Regular
		Lutfun Nahar, Md. Saiful	
		Islam, Mohammad	
BigD	Edge Grading in Trading Cards Using Transfer	Awrangjeb, and Rob	
578	Learning: Methods, Experiments, and Evaluation	Verhoeve	Short
		Yutao Du, Qin Li, Raghav	
D. D		Gnanasambandam,	
BigD	Global-local Fourier Neural Operator for	Mengnan Du, Haimin	Ch
596	Accelerating Coronal Magnetic Field Model	Wang, and Bo Shen	Short

		Samira Alkaee Taleghan,	
		Morteza Karimzadeh,	
		Andrew P.Barrett, Walter	
BigD	Semi-Supervised Multi-Source Sea Ice Classification	N.Meier, and Farnoush	
731	in Small-Data Regime	Banaei-Kashani	Short
BigD	Educational Digital Twin: Tackling Complexity in	Luwen Huang and Karen	
510	Educational Big Data	Willcox	Short
		Chengzhe Zhang, Xu Min,	
		Changsheng Li, Xiaolu	
		Zhang, Weichang Wu, Jun	
BigD	MIBR: Bridging Domains through Diverse Interests	Zhou, Ye Yuan, and	
456	for Cross-Domain Sequential Recommendation	Guoren Wang	Regular
430	Tor Cross-Domain Sequential Recommendation		Negulai
D: D	Market and the fee Deliteration December 1 deliteration	sibo lu, Zhen Liu, xinxin	
BigD	Meta-Learning for Debiasing Recommendation using	yang, yilin ding, yibo gao,	
572	Simulated Uniform Data	and yafan yuan	Short
		Md. Saiful Bari Siddiqui,	
		Md Mohaiminul Islam,	
BigD	Divide2Conquer (D2C): A Decentralized Approach	and Md. Golam Rabiul	
650	Towards Overfitting Remediation in Deep Learning	Alam	Short
		Kazuhiro Hiraki, Shinichi	
BigD	Alternative Methods to SHAP Derived from	Ishihara, and Junnosuke	
584	Properties of Kernels: A Note on Theoretical Analysis	Shino	Short
BigD	Improving Multi-Domain Task-Oriented Dialogue	Dharmendra Prajapat and	
556	System with Offline Reinforcement Learning	Durga Toshniwal	Short
BigD	A Data-Driven Approach for Automated Multi-Site	Ming Hui Tan, Kar Way	
616	Competitive Facility Location	Tan, and Hoong Chuin Lau	Short
	Commercial Space Classification and Prediction with	, , , , , , , , , , , , , , , , , , , ,	
BigD	Machine Learning and Multiple Data Sources: A		
713	Case Study of Milan	Jiabin Wei	Short
713	DANCE: Deep Learning-Assisted Analysis of ProteiN	Taslim Murad, Prakash	Short
BigD	Sequences Using Chaos Enhanced Kaleidoscopic	Chourasia, Sarwan Ali,	
724			Short
724	Images	and Murray Patterson	SHOLL
	D1S10: Deep Learning I		
	[Vision Paper] Quality-Aware Experience		
BigD	Exploitation in Model-Based Reinforcement	Guang Yang, Jiahe Li, Ziye	
558	Learning	Geng, and Changqing Luo	Regular
		Guang Yang, Ziye Geng,	
		Jiahe Li, Yanxiao Zhao,	
BigD	A Feedback-based Decision-Making Mechanism for	Sherif Abdelwahed, and	
559	Actor-Critic Deep Reinforcement Learning	Changqing Luo	Regular
		Alexandra Zytek, Sara	U
		Pido, Sarah Alnegheimish,	
BigD	Explingo: Explaining AI Predictions using Large	Laure Berti-Equille, and	
580	Language Models	Kalyan Veeramachaneni	Regular
	Data-driven Synchronization Protocols for		regulal
BigD	•	George Klioumis and Nikos Giatrakos	Pogular
588	Data-parallel Neural Learning over Streaming Data	INIKUS GIALTAKOS	Regular

		MohammadReza	
		EskandariNasab, Shah Muhammad Hamdi, and	
BigD	SeriesGAN: Time Series Generation via Adversarial	Soukaina Filali	Dec. Inc.
601	and Autoregressive Learning	Boubrahimi	Regular
	D1S11: Machine Learning		
	Algorithms I		
BigD	Stochastic Scale Invariant Power Iteration for	Cheolmin Kim, Youngseok Kim, Yegna Subramanian Jambunath, and Diego	Dec. Lee
623	KL-divergence Nonnegative Matrix Factorization	Klabjan Junhong Lin, Xiaojie Guo,	Regular
BigD 633	UnifiedGT: Towards a Universal Framework of Transformers in Large-Scale Graph Learning	Shuaicheng Zhang, Dawei Zhou, Yada Zhu, and Julian Shun	Regular
BigD	OSR-ViT: A Simple and Modular Framework for	Matthew Inkawhich, Nathan Inkawhich, Hao Yang, Jingyang Zhang, Randolph Linderman, and	
641	Open-Set Object Detection and Discovery	Yiran Chen	Regular
BigD 648	ORIS: Online Active Learning Using Reinforcement Learning-based Inclusive Sampling for Robust Streaming Analytics System	Rahul Pandey, Ziwei Zhu, and Hemant Purohit	Regular
BigD 663	Enhancing Big Data Analysis: A Recursive Window Segmentation Strategy for Multivariate Longitudinal Data	Desmond Fomo and Aki-Hiro Sato	Regular
	D1S12: Deep learning II	Runner-up for Best Paper Award	_
BigD 668	Targeting Negative Flips in Active Learning using Validation Sets	Ryan Benkert, Mohit Prabhushankar, and Ghassan AlRegib	Regular Runner-up for Best Paper Award
BigD	PlugVFL: Robust and IP-Protecting Vertical Federated	Jingwei Sun, Zhixu Du, Anna Dai, Saleh Baghersalimi, Alireza Amirshahi, David Atienza,	
684 Dian	Learning against Unexpected Quitting of Parties	and Yiran Chen	Regular
BigD 719	Effective Guidance for Model Attention with Simple Yes-no Annotations	Seongmin Lee, Ali Payani, and Duen Horng Chau	Regular
BigD 720	SPrint: Self-Paced Continual Learning with Adaptive Curriculum and Memory Replay	Min-Seon Kim, Ling Liu, and Hyuk-Yoon Kwon	Regular
BigD 725	LPLgrad: Optimizing Active Learning Through Gradient Norm Sample Selection and Auxiliary Model Training	Shreen Gul, Mohamed Elmahallawy, Sanjay Madria, and Ardhendu Tripathy	Regular
	D2S10: Machine Learning	Best Student Paper	

	Algorithms II	Award	
BigD 753	Predicting Surface Water Bacteria Levels Using Transfer Learning and Domain Adaptation	Ali Elahi, David Shumway, Megan Kowalcyk, Abhilasha Shrestha, Nikita Gautam, Doina Caragea, Cornelia Caragea, and Samuel Dorevitch	Regular
BigD 791	Efficient Hierarchical Contrastive Self-supervising Learning for Time Series Classification via Importance-aware Resolution Selection	Kevin Garcia, Juan Perez, and Yifeng Gao	Regular
BigD 796	SplitVAEs: Decentralized scenario generation from siloed data for stochastic optimization problems	H M Mohaimanul Islam, Huynh Quang Nguyen Vo, and Paritosh Ramanan Min Soon Kim Ling Ling	Regular
BigD 319	OL4TeX: Adaptive Online Learning for Text Classification under Distribution Shifts	Min-Seon Kim, Ling Liu, and Hyuk-Yoon Kwon	Short
BigD 250	Fine-grained Graph-based Anomaly Detection on Vehicle Controller Area Networks	Isaiah J. King, Benjamin Bowman, and H. Howie Huang	Short
BigD 628	RYAN: A tool for explaining and visually analyzing the evolution of Relaxed Functional Dependencies	Loredana Caruccio, Stefano Cirillo, Gianpaolo Iuliano, Giuseppe Polese, and Roberto Stanzione	Short
BigD 764	A Hybrid Model Based on Graph Convolutional Network and Multi-head Transformer for Joint Multiple Intent Detection and Slot Filling	Dongsheng Li, Kun Niu, Xiao Chen, and Zhihai Wang	Regular
BigD 733	DynamicFL: Federated Learning with Dynamic Communication Resource Allocation	Qi Le, Enmao Diao, Xinran Wang, Ahmad Faraz Khan, Vahid Tarokh, Jie Ding, and Ali Anwar	Regular Best Student Paper Award
	D3S2: Machine Learning Algorithms III	Runner-up for Best Student PAper Award	
BigD 801	Pre-Trained Language Models with Topic Attention for Supervised Document Structure Learning	Dang Pham and Tuan Le	Regular
BigD 858	MADOD: Generalizing OOD Detection to Unseen Domains via G-Invariance Meta-Learning	Haoliang Wang, Chen Zhao, and Feng Chen	Regular
BigD 832	Real-Time Video Analysis for Accurate Biometric Identity Verification in Mobile Devices	Sulabh Shrestha, Emanuela Marasco, and Babek Norouzlou	Regular
BigD 840	Tenet: Benchmarking Data Stream Classifiers in Presence of Temporal Dependence	Giacomo Ziffer, Federico Giannini, and Emanuele Della Valle	Regular Runner-up for Best Student PAper Award
BigD 856	FEED: Fairness-Enhanced Meta-Learning for Domain Generalization	Kai Jiang, Chen Zhao, Haoliang Wang, and Feng Chen	Regular

	2FWL-SIRGN: A Scalable Structural 2-dimensional		
BigD	Folklore Weisfeiler Lehman Graph Representation	Justin Carpenter and	
817		Edoardo Serra	Pogular
	Learning Approach Via Structural Graph Partitioning		Regular
BigD	Personalized Federated Learning by Domain-Aware	Yuto Suzuki and Farnoush	Chart
251	Network Pruning and Re-growth	Banaei-Kashani	Short
		Weiqing He, Bojian Hou,	
		Tianqi Shang, Davoud	
BigD	SEFD: Semantic-Enhanced Framework for Detecting	Ataee Tarzanagh, Qi Long,	
763	LLM-Generated Text	and Li Shen	Short
	Data Reliability Enhanced Prediction for	Prianka Banik, Lin Li,	
BigD	Recommendation System: A Case Study on Named	Xishuang Dong, and Lijun	
689	Entity Recognition	Qian	Short
		David Millard, Arielle	
BigD	Deep Learning for Koopman Operator Estimation in	Carr, and Stephane	
702	Idealized Atmospheric Dynamics	Gaudreault	Short
BigD	Efficient SGD Neural Network Training via Sublinear	Lianke Qin, Zhao Song,	
706	Activated Neuron Identification	and Yuanyuan Yang	Short
		Sara Nassar, Samir	
		Belhaouari, Mebarka	
BigD	Initialization Method for t-Distributed Stochastic	Allaoui, and Mohammed	
219	Neighbour Embedding (t-SNE)	Kherfi	Short
213	<u> </u>	KIICIII	Short
	D1S13: Big Data Applications I		
		Nguyen Ho, James May,	
		Bao Ngo, Jack Formato,	
BigD	Predicting ChatGPTs Ability to Solve Complex	Linh Ngo, Van Long Ho,	
227	Programming Challenges	and Hoang Bui	Regular
		Hsu-Chao Lai, Po-Hsiang	
		Fang, Yi-Ting Wu, Lo	
BigD	A Confidence-Based Power-Efficient Framework for	Pang-Yun Ting, and	
323	Sleep Stage Classification on Consumer Wearables	Kun-Ta Chuang	Regular
	Evaluate the Policy Impact of Temporary Suspension		
BigD	of Social Media Account using Synthetic Control		
352	Method	King wa Fu	Regular
		Jialu Li, Manish Thota,	J
BigD	SparrowVQE: Visual Question Explanation for Course		
331	Content Understanding	Holik, and Youshan Zhang	Regular
331	25 Sinderstanding	Bruno Yuiti Leão Imai,	
		Cristiano Mesquita	
		Garcia, Marcio Vinicius	
		Rocha, Alessandro	
	Is it Fine to Tune? Evaluating Sentence PERT	Lameiras Koerich, Alceu	
DieD	Is it Fine to Tune? Evaluating SentenceBERT	·	
BigD	Fine-tuning for Brazilian Portuguese Text Stream	de Souza Britto Jr., and	D =I =
340	Classification	Jean Paul Barddal	Regular
		Shoutai Zhu, Ziqiang	
BigD	Enhancing Financial Reasoning in Large Language	Yuan, Kaiyuan Wang,	
334	Models: The Role of Gold Facts	Yishu Zhang, and Wenqi	Regular

		Wei	
	D1S14: Big Data Applications II		
BigD 348	EEG2TEXT: Open Vocabulary EEG-to-Text Translation with Multi-View Transformer	Hanwen Liu, Daniel Hajialigol, Benny Antony, Aiguo Han, and Xuan Wang	Regular
BigD 354	Dynamic User Grouping and Evolution Tracking (DUGET): Leveraging Machine Learning for Public Transit Insights	Tobias Johannesson, Isak Rubensson, Sina Sheikholeslami, Ahmad Al-Shishtawy, and Vladimir Vlassov	Regular
BigD 408	[Vision Paper] PRObot: Enhancing Patient-Reported Outcome Measures for Diabetic Retinopathy using Chatbots and Generative AI	Maren Pielka, Tobias Schneider, Jan Terheyden, and Rafet Sifa	Regular
BigD 468	Deep Computer Vision for Solar Physics Big Data: Opportunities and Challenges [Vision Paper]	Bo Shen, Marco Marena, Chenyang Li, Qin Li, Haodi Jiang, Mengnan Du, Jiajun Xu, and Haimin Wang	Regular
BigD 606	A Scalable Game-theoretic Approach to Urban Evacuation Routing and Scheduling	Kazi Ashik Islam, Da Qi Chen, Madhav Marathe, Henning Mortveit, Samarth Swarup, and Anil Vullikanti	Regular
BigD 450	Accurate Stock Movement Prediction via Multi-Scale and Multi-Domain Modeling	JinGee Kim, Yong-chan Park, Jaemin Hong, and U Kang	Regular
BigD 626	Melanoma Classification using GAN based augmentation and Self-Supervised feature extraction	Akanksha Lal, Sadhana Tiwari, Rushil Patra, and Sonali Agrawal	Short
BigD 615	EGANKT: Enhancing Graph-Attention Networks for Knowledge Tracing by Predicting Concepts and Abilities	Qiwen Zheng, Shun Mao, Kai Chen, and Yuncheng Jiang	Regular
BigD 388	Constructing A Human-Centered Dataset for Second Language Acquisition via Large Language Models	Yunlong Fan, Baixuan Li, Zhiheng Yang, and Zhiqiang Gao	Regular
BigD 639	DistDNAS: Search Efficient Feature Interactions within 2 Hours	Tunhou Zhang, Wei Wen, Igor Fedorov, Xi Liu, Buyun Zhang, Fangqiu Han, Wen-Yen Chen, Yiping Han, Feng Yan, Hai Li, and Yiran Chen	Short
	D1S15: Big Data Analytics I	Honorable Mention for Best Paper Award	
BigD 659	LongKey: Keyphrase Extraction for Long Documents	Jeovane Honorio Alves, Radu State, Cinthia Obladen de Almendra	Regular

		Freitas, and Jean Paul	
BigD 698	Animal-JEPA: Advancing Animal Behavior Studies Through Joint Embedding Predictive Architecture in Video Analysis	Barddal Chengjie Zheng, Tewodros Mulugeta Dagnew, Liuyue Yang, Wei Ding, Shiqian Shen, Changning Wang, and Ping Chen	Regular
050	Video Alidiysis	Dian Chen, Paul Yang,	Regulai
BigD 597	susFL: Federated Learning-based Monitoring for Sustainable, Attack-Resistant Smart Farms	Dong Sam Ha, and Jin-Hee Cho	Regular
BigD 749	An Active Learning-Based Streaming Pipeline for Reduced Data Training of Structure Finding Models in Neutron Diffractometry	Tianle Wang, Jorge Ramirez, Cristina Garcia-Cardona, Thomas Proffen, Shantenu Jha, and Sudip Seal	Regular Honorable Mention for Best Paper Award
BigD 769	Enhancing Cross-Modal Contextual Congruence for Crowdfunding Success using Knowledge Graphs	Trilok Padhi, Ugur Kursuncu, Yaman Kumar, Valerie L. Shalin, and Lane Peterson Fronczek	Regular
BigD 696	SE(3) Equivariant Neural Network for 3D Graphs	Sarp Aykent and Tian Xia	Regular
030	D1S16: Big Data Analytics II	barp / tyneme and man / na	TieBaiai
BigD 799	Efficient Arrhythmia Detection Using Progressive Resolution Shrinking	Tavonput Luangphasy and Xinghui Zhao	Regular
BigD 838	Context-Specific Feature Augmentation for Improving Social Determinants of Health Extraction	Lei Gong, Aidong Zhang, Andrey Shor, and Kishlay Jha	Regular
BigD 687	PerSSD: Persistent, Shared, and Scalable Data with Node-Local Storage for Scientific Workflows in Cloud Infrastructure	Paula Olaya, Sophia Wen, Jay Lofstead, and Michela Taufer	Regular
BigD 846	Understanding Student Sentiment on Mental Health Support in Colleges Using Large Language Models	Palak Sood, Chengyang He, Divyanshu Gupta, Yue Ning, and Ping Wang	Regular
BigD 834	SO(3) Equivariant Framework for Spatial Networks	Tian Xia and Sarp Aykent	Regular
034	D1S17: Big Data Analytics III	Trail Aid and Sarp Aykent	Regulai
BigD 406	Reject Inference as a Noisy Label Detection and Counterfactual Correction Task	Charalampos Chelmis, Mahsa Azarshab, Khandker Sadia Rahman, and Mehrdad Mirpourian	Short
BigD 407	Multimodal survival prediction using TabTransformer and BioClinicalBERT on MIMIC-III	Beatrice Insalata, Fabian Schmidt, and Vladimir Vlassov	Short

		Raghu Chandra Katikeri,	
		Sai Phaniraja Maddila, Sai	
	T2I-RISE - A Comprehensive Approach with	Pratheek, Rajvi Desai	
	Conversational Context and Feedback Systems for	Birenbhai, Amit Vaid,	
BigD	Text-to-Insights with Reinforcement learning,	Neelesh Shukla, and	
477	Integration of Semantic layers and Enrichment	Sandeep Jain	Short
BigD		Ye Xue, Diego Klabjan,	
829	Multimodal Learning on Temporal Data	and Jean Utke	Short
		JINGYUAN CHOU,	
BigD	Estimate Causal Effects of Entangled Treatment on	JIANGZHUO CHEN, and	
755	Graphs using Disentangled Instrumental Variables	MADHAV MARATHE	Short
		Srinivas Eswar, Koby	
		Hayashi, Benjamin Cobb,	
		Ramakrishnan Kannan,	
BigD	On Rank Selection for Nonnegative Matrix	Grey Ballard, Richard	
760	Factorization	Vuduc, and Haesun Park	Short
	A01011	Raghu Chandra Katikeri,	
		Alok Nook Raj	
		Pepakayala, Lokesh	
		Kuncham, Rachita Barla,	
	EVOLVE: Evaluation of Language-to-SQL Validity and	Tarun Kasula, Sai Charan	
BigD	Effectiveness - A Detailed Review Framework for	Ravulapally, and Amit	
479	Complex Text-to-SQL Queries	Vaid	Short
7/3	Complex Text to SQL Queries	Austin Yunker, Jason Luce,	Siloit
		John C. Roeske, Rajkumar	
		Kettimuthu, Hyejoo Kang,	
BigD	Noise2Inverse for 3D Low-Dose Cone-Beam	Sebastien Gros, and Alec	
503	Computed Tomography	M. Block	Short
303		Yoonhyuk Choi, Reepal	SHOLL
Dia D	Prioritizing Potential Wetland Areas via Region-to-Region Knowledge Transfer through		
BigD		Shah, John Sabo, Huan	Chart
223	Domain Disentanglement and Adaptive Propagation	Liu, and Selçuk Candan	Short
	Construction and Application of the CAAADT AA ALL	Wendan Cheng, Zhen	
D: - D	Construction and Application of the SMART Model	Zhang, Heng Qian,	
BigD	for Adaptive Industrial Data Collection Based on	Qiuyue Wang, Guanqun	Chart
274	Knowledge Graphs	Su, and Lingge Meng	Short
	EXCON: Extreme Instance-based Contrastive	Onur Vural, Shah	
	Representation Learning of Severely Imbalanced	Muhammad Hamdi, and	
BigD	Multivariate Time Series for Solar Flare Prediction	Soukaina Filali	
564	Tasks	Boubrahimi	Short
		Manuel Blaser, Wesley	
BigD	YOLOv10 Computer Vision Performance	Porter, Luke Fuhrer, and	
501	Measurement for Agricultural Vacuum Seed Meters	Thirimachos Bourlai	Short
BigD	A Triple Factorization-Based Coupled Latent Factor	Yunchun Xian, Qicong Hu,	
567	Analysis Model for Recommender Systems	and Hao Wu	Short
		Damian Andrew Tamburri	
BigD	Data Science and Massive Open Online Courses	and Willem-Jan van den	
327	(MOOCs): Key Feats and Best Practices	Heuvel	Short

Industry and Government Program Sessions

I&G-1: Generative AI Dec. 16, Monday, 10:30-12:30, Columbia C	
Paper 2 (N221) LLM Chain Ensembles for Scalable and Accurate Data Annotation (regular)	David Farr, Nico Manzonelli, Iain Cruickshank, Kate Starbird, and Jevin West
Paper 6 (N257) Experimental Study of In-Context Learning for Text Classification and Its Application to Legal Document Review in Construction Delay Disputes (regular)	Nathaniel Huber-Fliflet, Jianping Zhang, Peter Gronvall, and Fusheng Wei
Paper 9 (N217) IDNet: A Novel Identity Document Dataset via Few-Shot and Quality-Driven Synthetic Data Generation (regular)	Lulu Xie, Yancheng Wang, Hong Guan, Soham Nag, Rajeev Goel, Niranjan Swamy, Yingzhen Yang, Chaowei Xiao, Jonathan Prisby, Ross Maciejewski, and Jia Zou
Paper 23 (N233) AUTORED: Automated Attack Scenario Generation Framework for Red Teaming of LLMs (short)	Zhe Wang and Mohammad Tayebi
Paper 26 (N253) Generating Phishing Attacks and Novel Detection Algorithms in the Era of Large Language Models (short)	Jeffrey Fairbanks and Edoardo Serra
Paper 28 (N237) Enriching Skill Taxonomies through Vector Space Models (short)	Simone D'Amico, Alessia De Santo, Fabio Mercorio, and Mario Mezzanzanica
I&G-2: Big data Infra & Multi-modality Dec. 16, Monday, 14:00-16:00, Columbia C	
Paper 1 (N239) DIVERSE: A Dataset of YouTube Video Comment Stances with a Data Programming Model (regular)	lain Cruickshank, Lynnette Ng, and Amir Soofi
Paper 15 (N209) INFA-FinOps for Cloud Data Integration (regular)	Shivangi Srivastava, Anant Mittal, Atam Agrawal, Valentin Moskovich, Michael Brevard, and Mosharaf Chowdhury

Paper 20 (N218) Capturing Infrastructure Interdependencies for Power Outages Prediction During Extreme Events (regular)	Sangkeun Lee, Avishek Bose, Narayan Bhusal, and Supriya Chinthavali
Paper 29 (N204) GPURank: A Cloud GPU Instance Recommendation System (short)	Shravika Mittal, Kanak Mahadik, Ryan Rossi, Sungchul Kim, and Handong Zhao
Paper 32 (N271) Addressing Spend Leakage and Optimization of Cloud Costs (short)	Uday Chandra Bhookya, Kunal Jethuri, Sanjeeva Rayudu Ravuru, Priyadarshi Priyadarshi, and Maitreya Natu
Paper 33 (N262) Forecasting Application Counts in Talent Acquisition Platforms: Harnessing Multimodal Signals using LMs (short)	Makini Chisolm-Straker and Lav R. Varshney
I&G-3: Modeling Dec. 16, Monday, 14:00-16:00, Concord	
Paper 5 (N278) Data-Prep-Kit: getting your data ready for LLM application development (regular)	David Wood, Boris Lublinsky, Alexy Roytman, Shivdeep Singh, Constantin Adam, Abdulhamid Adebayo, Sungeun An, Yuan Chi Chang, Xuan-Hong Dang, Nirmit Desai, Michele Dolfi, Hajar Emami-Gohari, Revital Eres, Takuya Goto, Dhiraj Joshi, Yan Koyfman, Mohammad Nassar, Hima Patel, Paramesvaran Selvam, Yousaf Shah, Saptha Surendran, Daiki Tsuzuku, Petros Zerfos, and Shahrokh Daijavad
Paper 10 (N272) WeightedMMoE: Weighted Multi-Gate Mixture-of-Experts for Multi-Source Unsupervised Domain Adaptation (regular)	Siti Mariyah and Wayne Wobcke
Paper 12 (N220) HLAT: High-quality Large Language Model Pre-trained on AWS Trainium (regular)	Haozheng Fan, Hao Zhou, Guangtai Huang, Parameswaran Raman, Xinwei Fu, Gaurav Gupta, Dhananjay Ram, Yida Wang, and Jun Huan
Paper 14 (N206) Active Learning for Practical Misinformation Classification in Social Media: a Case Study on COVID-19 (regular)	Han Kyul Kim and Andy Skumanich

Paper 18 (N245) Machine Learning (ML) Classifier to Assist in Metadata Creation (regular)	Hannah Collier, Eric Enright, Sujata Goswami, Chirag Shah, Maggie Davis, and Rachael Isphording		
Paper 34 (N236) An explainable framework based on counterfactual explanations for multi-class financial distress prediction of small and medium enterprises) (short)	Renon Ando, Yuji Kawamata, Toshihiko Takeda, and Yukihiko Okada		
I&G-4: Business and Energy Dec. 18, Tuesday, 10:30-12:30, Columbia C			
Paper 3 (N235) Targeted Detection of Anomalous Merchants on Integrated Payment Platforms via Multifaceted Transaction Representation Learning (regular)	Guanyu Lu, Xiang Lin, Martin Pavlovski, Xinyu Zhang, and Fang Zhou		
Paper 4 (N203) End-to-End Trip Energy Predictions Developed from Real-World Driving Data using Recurrent Neural Networks (regular)	Shinhoon Kim, Vishnu Raghupathy, Yongkang Liu, Keisuke Niimi, and Takahiro Mochihara		
Paper 7 (N254) Counter Data Paucity through Adversarial Invariance Encoding: A Case Study on Modeling Battery Thermal Runaway (regular)	Anika Tabassum, Srikanth Allu, and Ramakrishnan Kannan		
Paper 17 (N244) ProbSAINT: Probabilistic Tabular Regression for Used Car Pricing (regular)	Kiran Madhusudhanan, Gunnar Behrens, Maximilian Stubbemann, and Lars Schmidt-Thieme		
Paper 30 (N266) Forecasting Migration Patterns and Land Border Encounters (short)	Raquib Bin Yousuf, Shengzhe Xu, Patrick Butler, Brian Mayer, Nathan Self, David Mares, and Naren Ramakrishnan		
I&G-5: Recommender systems Dec. 18, Wednesday, 10:30-12:30, Columbia A			
Paper 8 (N256) Multi-task Recommendation in Marketplace via Knowledge Attentive Graph Convolutional Network with Adaptive Contrastive Learning (regular)	Xiaohan Li, Zezhong Fan, Luyi Ma, Kaushiki Nag, and Kannan Achan		
Paper 16 (N216) Optimal Transport for Efficient, Unsupervised Anomaly Detection on Industrial Data (regular)	Abigail Langbridge, Fearghal O'Donncha, James Rayfield, and Bradley Eck		

Paper 21 (N213) GRAINRec: Graph and Attention Integrated Approach for Real-Time Session-Based Item Recommendations (regular)	Bhavtosh Rath, Pushkar Chennu, David Relyea, Prathyusha Kanmanth Reddy, and Amit Pande		
Paper 24 (N224) Exploring Query Understanding for Amazon Product Search (short)	Chen Luo, Xianfeng Tang, Hanqing Lu, Yaochen Xie, Hui Liu, Zhenwei Dai, Llmeng Cui, Ashutosh Joshi, Sreyashi Nag, Yang Li, Zhen Li, Rahul Goutam, Jiliang Tang, Haiyang Zhang, and Qi He		
Paper 27 (N259) CryptoPulse: Short-Term Cryptocurrency Forecasting with Dual-Prediction and Cross-Correlated Market Indicators (short)	Amit Kumar and Taoran JI		
Paper 35 (N229) Harnessing the Power of Graph Neural Networks for Personalized Rail Recommendations (short)	Bora Edizel, Sri Haindavi Koppuravuri, Mark Gannaway, Puja Das, and Kamilia Ahmadi		
I&G-6: Al4Science Dec. 18, Wednesday, 10:30-12:30, Columbia B			
Paper 11 (N252) Enabling Scalable Mineral Exploration: Self-Supervision and Explainability (regular)	Angel Daruna, Vasily Zadorozhnyy, Georgina Lukoczki, and Han-Pang Chiu		
Paper 13 (N265) Accurate and Interpretable Radar Quantitative Precipitation Estimation with Symbolic Regression (regular)	Olivia Zhang, Brianna Grissom, Julian Pulido, Kenia Munoz-Ordaz, Jonathan He, Mostafa Cham, Haotong Jing, Weikang Qian, Yixin Wen, and Jianwu Wang		
Paper 19 (N243) Monitoring Recombinant Protein Titer in Escherichia Coli Fermentations Using Filtering Techniques (regular)	Paul Okafor, Zahed Siddique, and Talayeh Razzaghi		
Paper 22 (N268) Detecting Fraud in a Large Anonymized Voter Registration Dataset (short)	Nahid Anwar, Amit Jain, Edoardo Serra, and Chad Houck		
Paper 25 (N215) ARIM-mdx Data System: Towards a Nationwide Data Platform for Materials Science (short)	Masatoshi Hanai, Ryo Ishikawa, Mitsuaki Kawamura, Masato Ohnishi, Norio Takenaka, Kou Nakamura, Daiju Matsumura, Seiji Fujikawa, Hiroki Sakamoto, Yukinori Ochiai, Tetsuo Okane, Shin-Ichiro Kuroki,		

	Atsuo Yamada, Toyotaro Suzumura, Junichiro Shiomi, Kenjiro Taura, Yoshio Mita, Naoya Shibata, and Yuichi Ikuhara
Paper 31 (N202) Data Workbench For Earth and Atmospheric Science Research Community (short)	Sujata Goswami, Kyle Dumas, Wade Darnell, Vasile Tudor Garbulet, Michael Giansiracus, and Giri Prakash
Paper 32 (N241) Content-Aware Deep Learning Recommender System	Qixin Wang, Xintao Wu, Kan Yao, and Han Li

Special Sessions

Dec. 15, Sunday				
9:00-17:00	Congressional C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea	
9:00-17:00	Regency C	Special Session: Federated Learning on Big Data	Francesco Piccialli	
9:00-17:00	Sequoia	Special Session: Intelligent Data Mining	Uraz Yavanoglu	
		Dec. 16, Monday		
8:30-18:00	Bryce	Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment	Teruaki Hayashi Naoki Watanabe Hiroki Sakaji	
		Special Session: Understanding New Markets by Data Science, Social Science, and Economics https://tetsuwaka.net/UNMDSSSE2024/schedule.html		
10:30-18:00	Glacier	Special Session: Federated Learning on Big Data	Francesco Piccialli	
10:30-18:00	Congressional C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea	
10:30-18:00	Sequoia	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea	
	Dec. 17, Tuesday			
10:30-16:30	Yosemite	Special Session: Synergizing Mobility Data for Creating and Discovering Valuable Places https://www.panda.sys.t.u-tokyo.ac.jp/Syn_Mobil.html	Yukio Ohsawa	
10:30-16:30	Grand Teton	Special Session: Social Cognitive Computing in Digital Education and Learning	Jerry Chun-Wei Lin	
10:30-16:30	Glacier	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea	

Dec. 18, Wednesday			
10:30-16:00	Congressional A	Special Session: HealthCare Data	Ozgun Pinarer
10:30-12:30	Congressional B	Special Session: Dataspaces and DFFT (Data Free Flow with Trust)	Noboru Koshizuka
10:30-12:30	Yosemite	Special Session: Synergizing Mobility Data for Creating and Discovering Valuable Places	Yukio Ohsawa

PhD Forum

PhD Forum: Poster Session Dec. 17, Tuesday, 10:00-10:30, Regency Foyer Columbia Foyer			
PhD Forum: Paper Session I Dec. 17, Tuesday, 10:30-11:30, Concord			
SP13207: Towards Trustworthy Graph Neural Networks and Their Applications in Recommender Systems	Longfeng Wu		
SP13225: Towards a Supporting Framework for Neuro-Developmental Disorder: Considering Artificial Intelligence, Serious Games and Eye Tracking	Abdul Rehman, Ilona Heldal, Diana Stilwell, and Jerry Chun-Wei Lin		
SP13217: Time Series Causal Discovery Using a Hybrid Method	Saima Absar and Lu Zhang		
PhD Forum: Panel Dec. 17, Tuesday, 11:30-12:30, Concord			
PhD Forum: Paper Session II Dec. 17, Tuesday, 14:00-16:00, Concord	·		
SP13221: TIFG: Text-Informed Feature Generation with Large Language Models	Xinhao Zhang and Kunpeng Liu		
SP13201: Knowledge Transfer Predictive Models for Power Outage Caused by Various Types of Extreme Weather Events	Jangjae Lee and Stephanie Paal		
SP13213: Domain-Aware LLM Routing During Generation	Josef Pichlmeier, Philipp Ross, and Andre Luckow		
SP13222: Thought Space Explorer: Navigating and Expanding Thought Space for Large Language Model Reasoning	Jinghan Zhang and Kunpeng Liu		
SP13208: Feature-Space Semantic Invariance: Enhanced OOD Detection for Open-Set Domain Generalization	Haoliang Wang, Chen Zhao, and Feng Chen		
SP13220: User Privacy in Skeleton-based Motion Data	Thomas Carr and Depeng Xu		
SP13206: BadSAD: Clean-Label Backdoor Attacks against Deep Semi-Supervised Anomaly Detection	He Cheng		

SP13223: Global and Local Structure Learning for Sparse Tensor Completion	Dawon Ahn and Evangelos Papalexakis	
PhD Forum: Poster Session Dec. 17, Tuesday, 16:00-16:30, Regency Foyer Colum	bia Foyer	
PhD Forum: Paper Session II Dec. 17, Tuesday, 16:30-17:30, Concord		
SP13205: Leveraging Big Data Technologies for Practical Radio Frequency Fingerprinting Applications	Stefan Kunze and Wolfgang Dorner	
SP13211: Optimizing Deployment of Homomorphic Encryption and SQL using Reinforcement Learning	Ryan Marinelli, Avald Sommervoll, and Laszlo Erdodi	
SP13216: Robust Hate Speech Detection Without Predefined Spurious Words	Xingyi Zhao	
SP13212: Accounting for Cancer Patients with Severe Outcomes: An Anomaly Detection Perspective	Yang Yan, Christopher Lominska, Gregory Gan, Hao Gao, and Zhong Chen	
SP13209: Enhancing Customer Behavior Prediction and Interpretability	Yu-Chung Wang, Lars Arne Jordanger, and Jerry Chun-Wei Lin	

Online Workshop Sessions

Dec. 15, Sunday			
Workshop #11: The 7th International Workshop on "Big Data Engineering and Analytics in Cyber-Physical Systems" (BigEACPS'24) https://sites.google.com/view/bigeacps24	Dec 15, Morning	Chair: Akbar Namin	
Workshop #12: The 2nd International Workshop on Exploring Cutting-edge Data Mining: Applications of Infrared Target Detection and Large Language Models https://aidatalab.github.io/bigdata2024/pastworkshopd.html	Dec 15, Morning	Chair: Jinli Zhang	
Combined Workshops: #19: Foundation Models for Science Big Data & #37: IEEE 5th Workshop on High Performance Computing, Big Data Analytics, and Integration for Multi-Omics Biomedical Data (HPC-BOD) https://hpcbod.cs.fiu.edu/	Dec 15, Morning	Chairs: Xuan Wang & Fahad Saeed	
Workshop #25: IEEE Workshop on Big Data Analytics for Medical Imaging https://sites.google.com/unisa.it/bdami2024	Dec 15, Morning	Chair: Carmen Bisogni	
Workshop #35: The IEEE International Workshop on Large Language Models for Finance https://intelligentfinance.github.io/IEEE-LLM-finance-2024/index.html	Dec 15, Whole Day	Chair: Quanzhi Li	
Workshop #40: Workshop on Handling Resource Constraints for/using Bigdata and AI https://lc4workshop.github.io/constraint.html	Dec 15, Morning	Chair: Manikandan Ravikiran	
Workshop #45: 2nd International Workshop on Dataspaces and Digital Twins for Critical Entities and Smart Urban Communities (DSpaCES) https://sites.google.com/unisalento.it/dspaces2024	Dec 15, Morning	Chair: Marco Zappatore	
Workshop #49: The 8th IEEE International Workshop on Big Spatial Data (BSD 2024) https://confeera.com/conf/4/bsd-2024/about	Dec 15, Morning	Chair: Ashwin Shashidharan	

Workshop #22: 1st Workshop on Robust Machine Learning for Distribution Shifts https://sites.google.com/view/robustmlds24/home	Dec 15, Afternoon	Chair: Chen Zhao	
Workshop #26: 8th International Workshop on Big Data Analytics for Cyber Intelligence and Defense (BDA4CID 2024) https://bda4cid.github.io/	Dec 15, Whole Day	Chair: Stephen McGough	
Workshop: #31: International Workshop on Scalable and Deep Graph Learning and Mining https://project.inria.fr/sglm/	Dec 15, Whole Day	Wissem Inoubli	
Dec. 16, Monday			
Workshop #16: 12th International Workshop on Distributed Storage and Blockchain Technologies for Big Data https://web.pkusz.edu.cn/itfna/workshop24/	Dec 16, Morning	Chair: Hong Tan	
Workshop #41: Fourth International Workshop on Data science for equality, inclusion and well-being challenges (DS4EIW 2024) https://ds4eiw.github.io/4th-DS4EIW/	Dec 16, Morning	Chair: Tania Cerquitelli	
Workshop #50: 2nd International Workshop on Creating Big Data for Morals, Ethics, and Values in Natural Language in an Automatically Inferable Format https://knowrel.com/IEEE_BIGDATA_2024_BIGETHICS/	Dec 16, Morning	Chair: Keisuke Nakamura	
Workshop #27: 3rd International Workshop on Big Data Analytics for Health and Medicine (BDA4HM 2024) https://bda4hm.github.io/	Dec 16, Whole Day	Chair: Stephen McGough	
Combined Workshops: #30 Al-Powered Renewable Energy Forecasting: Techniques and Challenges (AlPREF) & #32: Al-driven Agriculture: Opportunities and Challenges & #33: Cultural Heritage &BigData: Opportunities and Challenges https://sites.google.com/view/aipref2024/https://sites.google.com/view/aida-2024/home-page https://sites.google.com/dimes.unical.it/chbdbigdata2024/home-page	Dec 16, Whole Day	Chairs: Ester Zumpano, Luciano Caroprese, Tommaso Ruga, Eugenio Vocaturo	
Dec. 17, Tuesday			
Workshop #21: 5th International Workshop on User Understanding from Big Data https://u2bigdata.github.io/	Dec 17, Morning	Chair: Wutao Wei	

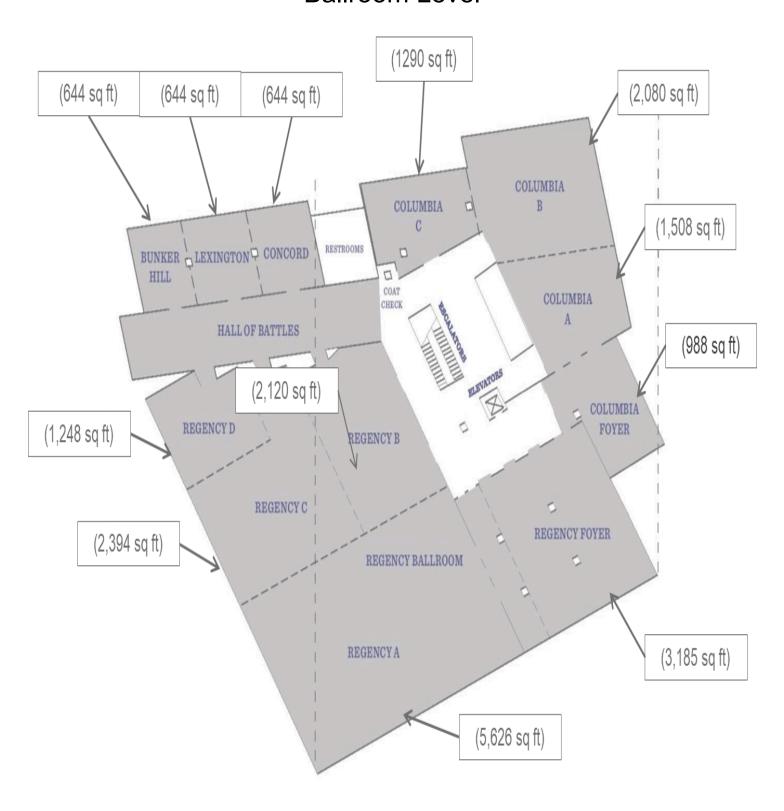
Workshop #29: Trustworthy Machine Learning for Healthcare https://sites.google.com/view/trustml4health24/	Dec 17, Morning	Chair: Xiao Shou
Workshop #28: 4th International Workshop on Big Data Analytics for Sustainability (BDA4S 2024) https://bda4s.github.io/	Dec 17, Whole Day	Chair: Stephen McGough

Online Challenge Cup Sessions

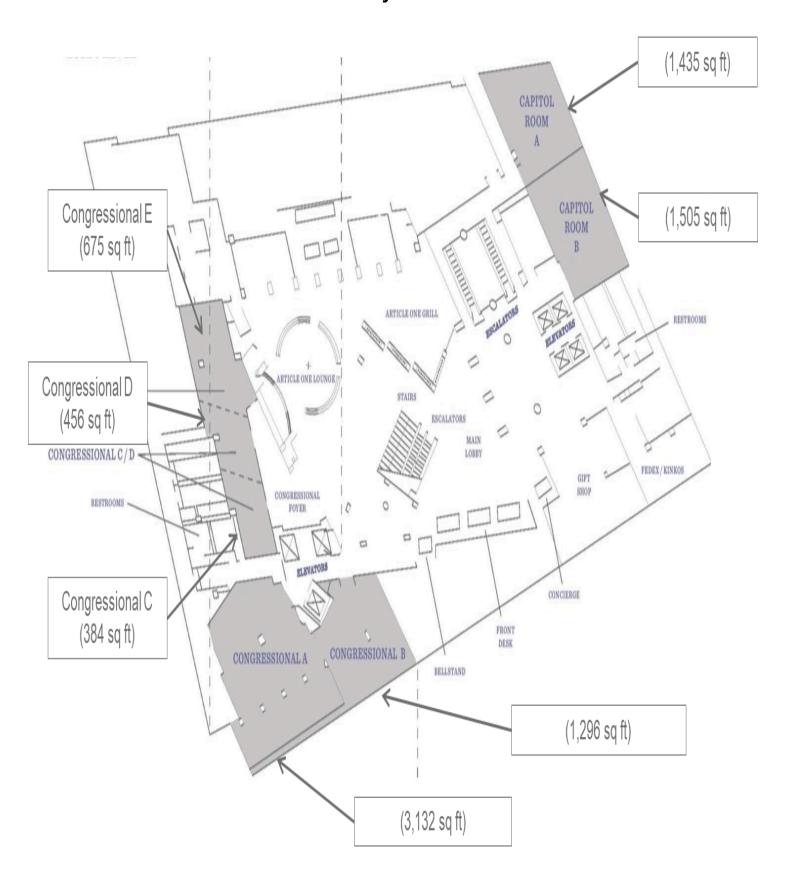
Dec. 15, Sunday			
Challenge Cup #5: Suicide ideation detection on social media	Dec. 15, Morning	Chair: Jun Li 21118786r@con	
Website: https://competitionpolyu.github.io/		nect.polyu.hk	
Challenge Cup #4: Characterizing User Behavior in Social Networks: Propagation, Prediction, and Sensemaking	Dec. 15, Afternoon	Chair: Qingyun Sun sunqy@buaa.ed	
Website: https://social-network-competition-gxqpe2ab8eh9atpe6hneu3. streamlit.app/		<u>u.cn</u>	
Dec. 16, Monday			
Challenge Cup #3: Building Extraction Generalization Challenge 2024	Dec. 16, Morning	Chair: Shenglong Chen chen-sl@csis.u-t	
Website: https://www.kaggle.com/competitions/building-extraction-generalization-2024		okyo.ac.jp	
Dec. 17, Tuesday			
Challenge Cup #2: Optimized Road Damage Detection Challenge (ORDDC'2024)	Dec. 17 Whole Day	Chair: Deeksha Arya deeksha.arya12	
Website: https://orddc2024.sekilab.global/	Day	11@gmail.com	
Challenge Cup #6: Challenges of Trustworthy AI in Distribution Shifts and Algorithmic Fairness	Dec. 17, Morning	Chair: Minglai Shao shaoml@tju.edu.	
Website: https://bigdatacup-e2j7tqwypbrkm8zsmqstmm.streamlit.app/		<u>cn</u>	

Hotel Floor Layout

Ballroom Level



Lobby Level



2nd Floor Conference

