IEEE BigData 2024 Program Schedule Washington, DC, USA

Conference time zone: US Eastern Standard Time

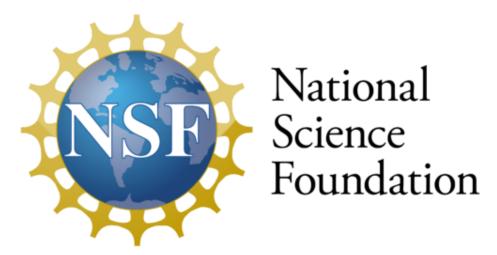
The link to download the BigData 2024 conference proceedings for BigData24 and access the pre recorded videos is:

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	Dongjin Song	
10:30-12:30	Capitol B	D1S2: Big Data Learning and Analytics I	Shuhan Yuan	
10:30-12:30	Columbia A	D1S3: Big Data Infrastructure I		
10:30-12:30	Columbia C	D1S4: Big Data Science and Foundations I	Xuan Wang	
10:30-12:30	Congressional A	D1S5: Big Data Management I	Fang Jin	
10:30-12:30	Congressional B	D1S6: Big Data Search and Mining I	Yanjie Fu	
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	Yiqun Xie
14:00-16:00	Columbia A	D1S9: Big Data Learning and Analytics III	

14:00-16:00	Columbia B	D1S10: Deep Learning I	Dongjin Song
14:00-16:00	Congressional A	D1S11: Machine Learning Algorithms I	Feng Chen
14:00-16:00	Congressional B	D1S12: Deep Learning II	Chen Zhao
14:00-16:00	Concord	I&G-2: Big data Infra & Multi-modality	Kesheng Wu
14:00-16:00	Columbia C	I&G-3: Modeling	Kesheng Wu
14:00-16:00	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
14:00-16:00	Glacier	Special Session: Federated Learning on Big Data	Francesco Piccialli
14:00-16:00	Congressional C	Special Session: Machine Learning on Big Data	Alfredo Cuzzocrea
14:00-16:00	Sequoia	Special session: Privacy and Security of Big Data	Alfredo Cuzzocrea
16:00-16:30	Columbia Foyer	Coffee Break	
16:00-16:30	Regency Foyer Columbia Foyer	Poster Display (Session Chairs: Kaiqun Fu, Y	⁄ufei Tang)
16:30-18:00	Capitol A	D1S13: Big Data Applications I	Kaiqun Fu
16:30-18:00	Capitol B	D1S14: Big Data Applications II	Xuan Wang
16:30-18:00	Columbia B	D1S15: Big Data Analytics I	Yong Zhuang
16:30-18:00	Congressional A	D1S16: Big Data Analytics II	
16:30-18:00	Congressional B	D1S17: Big Data Analytics III	
16:30-18:00	Bryce	Joint Session Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment Special Session: Understanding New	Teruaki Hayashi Naoki Watanabe Hiroki Sakaji

		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	Lindi Liao	
10:30-12:30	Capitol A	D2S1: Foundation Models and Analytics	Dawei Zhou	
10:30-12:30	Capitol B	D2S2: Learning from Complex Data	Yong Zhuang	
10:30-12:30	Columbia A	D2S3: Big Data Infrastructure II		
10:30-12:30	Columbia B	D2S4: Big Data Science and Foundations II	Fang Jin	
10:30-12:30	Congressional A	D2S5: Big Data Search and Mining II	Kaiqun Fu	
10:30-12:30	Congressional B	D2S6: Big Data Applications IV	Kunpeng Liu	
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	Lindi Liao
14:00-16:00	Capitol B	D2S8: Link and Graph Mining I	Zhiqian Chen
14:00-16:00	Columbia A	D2S9: Machine Learning Algorithms II	Hefei Qiu
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 D (Session Chairs: Feng Chen,	

16:30-17:00	Regency Ballroom	Sponsor Session: IEEE Dataport
17:30-18:30		Walk to the National Museum of the American Indian 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	Zhiqian Chen
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

Type (Red indicates an online video presentation, not played in the conference room. Access it via the prerecorded video link in the conference program.) Red: Online video presentation (not played in room). Access via program link.	Title D1S4: Big Data Science and Foundations I
hical Zhongyi Que, Linchuan Xu, and Kenji Yamanishi Regular Lamine Diop and Marc	Luckiness Normalized Maximum Likelihood-based Change Detection for High-dimensional Graphical Models with Missing Data
Plantevit Short Tanvir Ahmed Khan and Leonidas Fegaras Regular	A Planner for Scalable Tensor Programs
Ling Cheng, Qian Shao,	A Full-History Network Dataset for BTC Asset Decentralization Profiling
and Antonio FICARELLA Short	Synthetic Data Generation for Photovoltaic Systems: Enhancing Accuracy with the Huld Model
of Anton Kochepasov and Ilya Stupakov Short	An Efficient Single-pass Online Computation of Higher-Order Bivariate Statistics
th Small Yekun Ke, Xiaoyu Li, Zhao Song, and Tianyi Zhou Regular	Faster Sampling Algorithms for Polytopes with Small Treewidth
Hexiang Liu, Qilong Han, Jingyu Sheng, Dan Lu, Shanshan Sui, and Hui Sun Short	DyMGCN: Dynamic Multi-Graph Convolution Networks for Spatio-Temporal Forecasting
Red: Online video presentation (not played in room). Access via program link.	D2S4: Big Data Science and Foundations II
Lamine Diop, Marc Plantevit, and Arnaud Soulet Short Short	RPS: A Generic Reservoir Patterns Sampler
LIVERA, Antonella Longo, George E. GEORGHIOUS, and Antonio FICARELLA of Anton Kochepasov and Ilya Stupakov th Small Yekun Ke, Xiaoyu Li, Zhao Song, and Tianyi Zhou Hexiang Liu, Qilong Han, Jingyu Sheng, Dan Lu, Shanshan Sui, and Hui Sun Cd Red: Online v presentation (played in roor Access via pr link. Lamine Diop, Marc Plantevit, and Arnaud	Enhancing Accuracy with the Huld Model An Efficient Single-pass Online Computation of Higher-Order Bivariate Statistics Faster Sampling Algorithms for Polytopes with Small Treewidth DyMGCN: Dynamic Multi-Graph Convolution Networks for Spatio-Temporal Forecasting D2S4: Big Data Science and Foundations II

786	Maximization: Algorithms and Applications	and A. Pavan	
BigD	The state of the s	Poonam Sharma, Dildar	
844	Minimizing Regret in Social Media Advertisement	Ali, and Suman Banerjee	Short
0++	William Izing Regret in Social Media Advertisement	Chongyu He, Zhiwu Xie,	Short
BigD	Nuclear Pore Segmentation in 3D FIB-SEM Images	Yinlin Chen, and Edward	
778	with Dynamic Cyclical Data Augmentation	Fox	Short
770	with Dynamic Cyclical Data Augmentation	Yuzhou Chen, Joel	SHOLL
DiaD	Fire east 7iggag Convolutional Naturals for Wildfire	· ·	
BigD	Firecast Zigzag Convolutional Network for Wildfire	Castillo, Huikyo Lee, and	Chaut
793	Prediction	Yulia R. Gel	Short
BigD	Disentangled Conditional Variational Autoencoder	Asif Ahmed Neloy and	Ch
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	Yaoshu Wang and Mengyi	Shore
812	Leveraging Large Language Models	Yan	Short
012	Ecveraging Large Language Mouers	Mohammad Hossein	SHOLL
DicD		Moslemi, Harini	
BigD 709	Evaluating Placking Piacoc in Entity Matching	Balamurugan, and Mostafa Milani	Pogular
709	Evaluating Blocking Biases in Entity Matching	IVIUSLAIA IVIIIAIII	Regular Red: Online video
	D1S3: Big Data Infrastructure I		presentation (not
			played in room).
			Access via program link.
BigD	Stochastic Large-scale Machine Learning Algorithms	Biyi Fang, Diego Klabjan,	
240	with Distributed Features and Observations	and Truong Vo	Regular
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		Hooyoung Ahn,	
		Seonyoung Kim, Yoomi	
		Park, Woojong Han,	
		Shinyoung Ahn, Tu Tran,	
		Bharath Ramesh, Hari	
BigD	MPI Allgather Utilizing CXL Shared Memory Pool in	Subramoni, and	
255	Multi-Node Computing Systems	Dhabaleswar K. Panda	Short
BigD	Large-Scale Knowledge Graph Embeddings in	Bedirhan Gergin and	
313	Apache Spark	Charalampos Chelmis	Regular
	·	· ·	Negulai
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
		3 2 3 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	Red: Online video
	D2S3: Big Data Infrastructure II		presentation (not
			played in room). Access via program
			link.
		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	ga.a.
569	Data in Databases	Andreas Rauber	Regular
		Luke Schultz, Owen	педии
BigD	Common Pitfalls with Data Deduplication	·	Decider
423	Parameters and Metrics	Randall, and Paul Lu	Regular
BigD	Distributed Data Analysis Workflow System across	Siwoon Son, Seong-Hwan	
735	Multiple Data Hubs	Kim, and Heesun Won	Short
BigD	Durin: CPU-FPGA Heterogeneous Platform for	Se-Min Lim, Esmerald	
586	Scalable Low-Dimensional Data Clustering	Aliaj, and Sang-Woo Jun	Short
		Iason Ofeidis, Diego	
BigD	An Overview of the Data-Loader Landscape:	Kiedanski, and Leandros	
611	Comparative Performance Analysis	Tassiulas	Short
BigD	,	Connor Howe, Mohsin	
547	Towards Scalable Quantum Repeater Networks	Aziz, and Ali Anwar	Short
	Improving Data Science Applications with a Visual	Lucas Miguel Ponce and	SHOLL
BigD		_	Pogular
461	Cross-Platform Execution Environment	Dorgival Guedes	Regular Red: Online video
	D1S5: Big Data Management I		presentation (not
			played in room).
			Access via program link.
RigD	Towards True Multi-interest Recommendation:	Jaeri Lee, Jeongin Yun,	III IX.
BigD			Dogular
447	Enhanced Scheme for Balanced Interest Training	and U Kang	Regular
BigD	Uncertainty-Aware Influence Maximization:	Qi Zhang, Lance Kaplan,	
823	Enhancing Propagation in Competitive Social	Audun Jøsang, Dong	Short

	Networks with Subjective Logic	Hyun Jeong, Feng Chen,	
		and Jin-Hee Cho	
	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
		Antheas Kapenekakis,	J
		Daniele Dell'Aglio,	
		Charles Vesteghem,	
		Laurids Poulsen, Martin	
		Bøgsted, Minos	
BigD	Synthesizing Accurate Relational Data under	Garofalakis, and Katja	
644	,	Hose	Short
044	Differential Privacy		SHOLL
		Liangwei Yang, Zhiwei Liu,	
		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
133	caddany informed ractorization machines	Zhenrui Yue, Huimin	5010
BigD	Transferable Sequential Recommendation via Vector	Zeng, Yang Zhang, Julian	
420	Quantized Meta Learning	McAuley, and Dong Wang	Short
420		ivicauley, and bong wang	Red: Online video
	D1S6: Big Data Search and Mining I		presentation (not
			played in room). Access via program
			link.
		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
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BigD On Modeling Adaptive Index Management as Adversarial Search Bin Dong, Avinash Nayak, Kesheng Wu, Verónica Rodríguez Tribaldos, Jonathan Ajo-Franklin, Qile Zhang, Suren Byna, Fan Guo, Patrick Dobson, and Alexander Sim Zongli Jiang, Yirui Tan, Guoxin Chen, Fangda BigD GNN-Based Persistent K-core Community Search in Temporal Graphs Reg	gular gular gular
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BigD Fast Distributed Memory Parallel Algorithms for Maleq Khan and Sharon	
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BigD Automated Polynomial Filter Learning for Graph Wendi Yu, Zhichao Hou,	
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	Data		played in room). Access via program link.
BigD 836	A machine-learning pipeline for merging and georeferencing very large archives of historical aerial photographs	Eugenio Noda, Luna Huang, Trinetta Chong, Shruti Jain, Andreas Madestam, Anna Tompsett, Hannah Druckenmiller, and Solomon Hsiang	Regular
BigD 759	Custom Accessors: Enabling Scalable Data Ingestion, (Re-)Organization, and Analysis on Distributed Systems	Vito Giovanni Castellana, Burcu Mutlu, Ian Di Dio Lavore, Jesun Firoz, Katherine Wolf, Marco Minutoli, and John Feo	Regular
BigD 711	Efficient Point-to-Subspace ANNS in Manhattan and Lp Space by LSH Pruning	Jingfan Meng, Huayi Wang, and Jun Xu	Regular
BigD	QualityNet: Error-bounded Lossy Compression	Khondoker Mirazul Mumenin, Dong Dai, Jinzhen Wang, and Sheng	
779	Quality Prediction via Deep Surrogate	Di Rubayet Rahman Rongon,	Regular
BigD 811	A Study of Data-Path Bugs in PyTorch with a Focus on Memory Management	Chen Cao, and Xuechen Zhang	Regular
BigD 867	Evaluating Text Summarization Techniques and Factual Consistency with Language Models	Md Moinul Islam, Usman Muhammad, and Mourad Oussalah	Short
BigD	SAFENet: Towards a Robust Suicide Assessment	Usman Naseem, Surendrabikram Thapa, Siddhant Shah, Mohammad Salman, Qi Zhang, Junaid Rashid, Liang Hu, and Imran	
879	Using Selective Prediction Framework	Razzak	Regular
BigD 767	Fast Sentence Classification using Word Co-occurrence Graphs	Ashirbad Mishra, Shad Kirmani, and Kamesh Madduri	Regular
	D2S8: Link and Graph Mining I		Red: Online video presentation (not played in room). Access via program link.
BigD 394	A Novel Reverse Random Hyperplane Projection Scheme and Its Effect on Mining Sensor Streams	Antonios Skevis, George Klioumis, and Nikos Giatrakos	Short
BigD 770	ID and Graph View Contrastive Learning with Multi-View Attention Fusion for Sequential Recommendation	Xiaofan Zhou and Kyumin Lee	Regular
BigD	Monarch: Distributed Butterfly Counting for	Yuxin Tang, Mangesh	Short

410	Large-scale Bipartite Graph	Bendre, and Mahashweta Das	
BigD 421	Enhancing Discoverability and Management of Atmospheric Data at Scale: Solutions from the ARM Data Center	Chirag Shah, Wade Darnell, Hannah Collier, Harold Shanafield, Michael Giansiracusa, and Giri Prakash	Short
BigD 436	Beyond Quantile Methods: Improved Top-K Threshold Estimation for Traditional and Learned Sparse Indexes	Jinrui Gou, Yifan Liu, Minghao Shao, and Torsten Suel	Short
BigD 520	KG-CF: Knowledge Graph Completion with Context Filtering under the Guidance of Large Language Models	Zaiyi Zheng, Yushun Dong, Song Wang, Haochen Liu, Qi Wang, and Jundong Li	Short
BigD 298	DifStoryGen: Diffusion-Based Storytelling Algorithm with Distributed Attention	Alireza Nouri and M. Shahriar Hossain	Short
BigD 494	Federated Contrastive Learning of Graph-Level Representations D3S1: Link and Graph Mining II	Xiang Li, Gagan Agrawal, Rajiv Ramnath, and Ruoming Jin	Short Red: Online video presentation (not
			played in room). Access via program link.
BigD 652	Norma: A Framework for Finding Threshold Associations Between Continuous Variables Using Point-wise Functions	Md Mahin and Christoph F Eick	Short
BigD 321	Enhancing Graph Neural Networks with Limited Labeled Data by Actively Distilling Knowledge from Large Language Models	Quan Li, Tianxiang Zhao, Lingwei Chen, Junjie Xu, and Suhang Wang	Short
BigD 681	Feature Interaction Detection in Big Data Through a New Choquet Integral based Deep Neural Network	Matthew Fried, Honggang Wang, and Hua Fang	Short
BigD 682	Explainable Enrichment-Driven GrAph Reasoner (EDGAR) for Large Knowledge Graphs with Applications in Drug Repurposing	Olawumi Olasunkanmi, Evan Morris, Yaphet Kebede, Harlin Lee, Stanley Ahalt, Alexander Tropsha, and Chris Bizon	Short
BigD 747	Evaluating Performance Trade-offs of Caching Strategies for AI-Powered Querying Systems	Hyunju Oh, Wei Zhang, Christopher Rickett, Sreenivas R. Sukumar, and Suren Byna	Short
BigD 882	[Vision Paper] Next Topic Recommendation for Influencers on Social Media	Masafumi Iwanaga, Keishi Tajima, and Yoko Yamakata	Short
BigD 851	WalkBayes: Robust Node Classification via Bayesian Inference and Random Walks under Perturbations	Shuqi He and Jun Song	Short
BigD 873	Efficient counting of balanced (2, k)-bicliques in Signed Bipartite Graphs	Mekala Kiran, Apurba Das, and Suman Banerjee	Short

	D1S1: Foundation Models for Big		Red: Online video presentation (not
	Data		played in room). Access via program
BigD 497	Benchmarking Human and Automated Prompting in	Jorge Quesada, Zoe Fowler, Mohammad Alotaibi, Mohit Prabhushankar, and Ghassan AlRegib	Pogular
497	the Segment Anything Model	Jawad Ibn Ahad, Rafeed Mohammad Sultan, Abraham Kaikobad, Fuad Rahman, Mohammad Ruhul Amin, Nabeel	Regular
BigD 636	Empowering Meta-Analysis: Leveraging Large Language Models for Scientific Synthesis	Mohammed, and Shafin Rahman	Regular
BigD	Prompt Chaining-Assisted Malware Detection: A Hybrid Approach Utilizing Fine-Tuned LLMs and Domain Knowledge-Enriched Cybersecurity	Neha Mohan Kumar, Fahmida Tasnim Lisa, and Sheikh Rabiul Islam	Chart
646	Knowledge Graphs	Sikun Guo, Amir	Short
BigD	[Vision Paper] Embracing Foundation Models for	Shariatmadari, Guangzhi	
491	Advancing Scientific Discovery	Xiong, and Aidong Zhang	Regular
BigD	Automatic Prompt Generation and Optimization by Leveraging Large Language Models to Enhance		
216	Few-Shot Learning in Biomedical Tasks	Yiwen Shi and Xiaohua Hu	Regular
BigD 774	Resources Construction and LLM Fine-tuning for Education of Computer Science	Bingjiao Wang, Qinglei Zeng, and Yong Zhang	Regular
	D2S1: Foundation Models and		Red: Online video
	Analytics	3 (Best Paper Award)	presentation (not played in room). Access via program link.
BigD 889	BanglaDialecto: An End-to-End AI-Powered Regional Speech Standardization	Md. Nazmus Sadat Samin, Jawad Ibn Ahad, Tanjila Ahmed Medha, Fuad Rahman, Mohammad Ruhul Amin, Nabeel Mohammed, and Shafin Rahman	Regular
BigD	Performance Characterization of Expert Router for	Josef Pichlmeier, Philipp	
647	Scalable LLM Inference	Ross, and Andre Luckow	Short
BigD 827	Data Augmentations to support Speculative Reasoning in LLMs	Raquib Bin Yousuf, Nicholas Defelice, Mandar Sharma, Shengzhe Xu, and Naren Ramakrishnan	Regular (Best Paper Award)
BigD	TabularFM: An Open Framework For Tabular	Quan Tran, Suong Hoang,	
440	Foundational Models	Lam Nguyen, Dzung Phan,	Short

		and Thanh Lam Hoang	
		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
		Amrita Bhattacharjee,	
BigD	Zero-shot LLM-guided Counterfactual Generation: A	Raha Moraffah, Joshua	
852	Case Study on NLP Model Evaluation	Garland, and Huan Liu	Short
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BigD	StyleRec: A Benchmark Dataset for Prompt Recovery	Shaoyan Zhai, and Liqiang	Chaut
816 BigD	in Writing Style Transformation	Wang	Short
BigD 507	Beyond Human Vision: The Role of Large Vision Language Models in Microscope Image Analysis	Prateek Verma, Minh-Hao	Short
507	Language Models in Microscope image Analysis	Van, and Xintao Wu	SHOLL
		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
000	Direct Pererence Optimization	Jinlin Wu, Xusheng Liang,	Shore
BigD	SurgBox: Agent-Driven Operating Room Sandbox	Xuexue Bai, and Zhen	
872	with Surgery Copilot	Chen	Short
		Azal Ahmad Khan, Ahmad	
BigD	Personalized Federated Learning Techniques:	Faraz Khan, Haidar Ali,	
835	Empirical Analysis	and Ali Anwar	Short
	D1S7: Data Ecosystem		Red: Online video presentation (not
			played in room).
			Access via program link.
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
		Eray Dogan, Meghdad	
BigD	SecureSphere: Advancing Security and Robustness in	Mirabi, and Carsten	
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	
761	of Bias in LLM-Based Recommendations	and Anindya Bijoy Das	Short
		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	
843	Wikidata separates Global North from Global South	Mukherjee	Short
		Xuan Zhao, Simone	
		Fabbrizzi, Paula Reyero	
		Lobo, Siamak Ghodsi,	
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BigD	Adversarial Reweighting Guided by Wasserstein	Steffen Staab, and Gjergji	Ch
296	Distance to Achieve Demographic Parity	Kasneci	Short
		Varun Chandrasekaran,	
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300	Hierarchical Federated Learning with Privacy		Regular
BigD	RCDP: A Privacy-Preserving Approach for	Xiaoying Liu, Juanjuan Zhao, Xitong Gao, and	
525	Synthesizing Realistic Commuting Data	Kejiang Ye	Regular
323	Cynthesizing Reductio Commuting Data	Xiujin Shi, Naiwen Sun,	riegaiai
BigD	FedGSDW: Enhancing Federated Learning	Jiawei Gong, and	
284	Robustness against Model Poisoning Attack	Shoujian Yu	Short
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BigD 766	NysAct: A Scalable Preconditioned Gradient Descent using Nystrom Approximation	Hyunseok Seung, Jaewoo Lee, and Hyunsuk Ko	Short
700	using nystrom Approximation	Jayalakshmi Mangalagiri,	JIIUI L
BigD	A Progressive Meta-Algorithm for Large and	Aryya Gangopadhyay, and	
768	Seamless Super Resolution Images	David Chapman	Short
700	Large Scale Evaluation of Deep Learning-based	Temitope Adeyeha,	SHOLL
BigD	Explainable Solar Flare Forecasting Models with	Chetraj Pandey, and	
697	Attribution-based Proximity Analysis	Berkay Aydin	Short
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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,	Short
DIRD	poosting time series reduction of extreme events	Juneng Jili, Azallı Jilli dil,	JIIUI L

671	by Reweighting and Fine-tuning	and Giri Narasimhan	
		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
		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		Red: Online video presentation (not
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	Allalytics		Access via program link.
	Unraveling Intricacies: A Decomposition Approach	Wenbin Hua, Yufan Wang,	
BigD	for Few-Shot Multi-Intent Spoken Language	Rui Fan, Xinhui Tu, and	
228	Understanding	Tingting He	Regular
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
		Mahtab Movahhedrad,	
BigD	A Green Learning Approach to Efficient Image	Zijing Chen, and CC. Jay	
355	Demosaicking	Kuo	Regular
		Zefan Zeng, Qing Cheng,	
D: D	Aligning the Representation of Knowledge Graph	Xingchen Hu, Zhong Liu,	
BigD	and Large Language Model for Causal Question	Jingke Shen, and Yahao	D I
253	Answering	Zhang	Regular
DicD	Visual Lifeles Petrioval through	Yu-Fei Shih, An-Zi Yen,	
BigD 465	Visual Lifelog Retrieval through Captioning-Enhanced Interpretation	Hen-Hsen Huang, and Hsin-Hsi Chen	Short
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			link.
		Shaan Pakala, Bryce Graw,	
		Dawon Ahn, Tam Dinh,	
BigD	Automating Data Science Pipelines with Tensor	Mehnaz Tabassum	
369	Completion	Mahin, Vassilis Tsotras, Jia	Regular

		Chen, and Evangelos E. Papalexakis	
BigD 415	MAcPNN: Mutual Assisted Learning on Data Streams with Temporal Dependence	Federico Giannini and Emanuele Della Valle	Regular
BigD 438	Improving CLIP for Biomedical Retrieval: A Multi-Margin Contrastive Loss Approach	Ejan Shakya, Haritha Prasad Rayakota, and Pei-Chi Huang	Regular
BigD 288	Unsupervised Machine Learning for Detecting and Locating Human-Made Objects in 3D Point Cloud	Hong Zhao, Huyunting Huang, Tonglin Zhang, Baijian Yang, Jin Wei-Kocsis, and Songlin Fei	Short
BigD 798	Near Real-Time Wildfire Damage Assessment using Aerial Thermal Imagery and Machine Learning	Saqib Azim, Mai Nguyen, Daniel Crawl, Jessica Block, Rawaf Al Rawaf, Francesca Hart, Mark Campbell, Robert Scott, and Ilkay Altintas	Short
BigD 385	Leveraging Spatio-Temporal Locality in Linear Model Trees for Multi-Step Time Series Forecasting	Annunziata D'Aversa, Gianvito Pio, and Michelangelo Ceci	Short
BigD 434	A Comprehensive Forecasting Framework based on Multi-Stage Hierarchical Forecasting Reconciliation and Adjustment	Zhengchao Yang, Mithun Ghosh, Anish Saha, Dong Xu, Konstantin Shmakov, and Kuang-chih Lee	Regular
BigD 387	Fast Second-order Method for Neural Networks under Small Treewidth Setting	Xiaoyu Li, Jiangxuan Long, Zhao Song, and Tianyu Zhou	Regular
	D1S9: Big Data Learning and Analytics III		Red: Online video presentation (not played in room). Access via program link.
BigD 448	Accurate Coupled Tensor Factorization with Knowledge Graph	SeungJoo Lee, Yong-chan Park, and U Kang	Regular
BigD 476	A Domain-Agnostic Neurosymbolic Approach for Big Social Data Analysis: Evaluating Mental Health Sentiment on Social Media during COVID-19	Vedant Khandelwal, Manas Gaur, Ugur Kursuncu, Valerie Shalin, and Amit Sheth	Regular
BigD 540	Attention Based Machine Learning Methods for Data Reduction with Guaranteed Error Bounds	Sanjay Ranka	Regular
BigD 365	Periscope: A Framework for Visualizations of Multiresolution Spatiotemporal Data at Scale	Everett Lewark, Matthew Young, Paahuni Khandelwal, Sangmi Pallickara, and Shrideep Pallickara	Short
BigD	LLM4cast: Repurposed LLM for Viral Disease	Farah Saeed, Mohammed	Short

366	Forecasting	Aldosari, Budak Arpinar, and John A. Miller	
BigD 431	FisherMask: Enhancing Neural Network Labeling Efficiency in Image Classification Using Fisher Information	Shreen Gul, Mohamed Elmahallawy, Sanjay Madria, and Ardhendu Tripathy	Short
BigD 404	COCALITE: A Hybrid Model COmbining CAtch22 and LITE for Time Series Classification	Oumaima Badi, Maxime Devanne, Ali Ismail-Fawaz, Javidan Abdullayev, Vincent Lemaire, Stefano Berretti, Jonathan Weber, and Germain Forestier	Short
707	Perturbation-driven data augmentation for time	Germani i orestiei	Short
BigD 441	series anomaly detection improvement in predictive maintenance	Hyeyoung Lee, Sangkyun Lee, and Sungjoon Choi	Short
BigD 555	VideoBadminton: A Video Dataset for Badminton Action Recognition	Qi Li, Tzu-Chen Chiu, Hsiang-Wei Huang, Min-Te Sun, and Wei-Shinn Ku	Short
BigD 482	Negative Sample Enhancement Strategy to Improve Contrastive Learning for Unsupervised Sentence Representation	Hao Li and Chunzhi Xie	Short
BigD 549	Optimizing Liquid Neural Networks: A comparative study of LTCs and CFCs	Pranav Deepak Tanna, Siddharth Khare, Sanyam Sanjay Jain, Shivodit Raj Vishnoi, Samay Roy, and Jagat Sesh Challa	Short
BigD	Staay 5. 2. 55 a.i.a 6. 55	Helia Hedayati and Saeed	Siloit
413	DataInsight: Big Data Analytics Services	Samet	Short
BigD 496	Federated Learning under Sample Selection Heterogeneity	Huy Mai and Xintao Wu	Short
BigD 548	Ternary Logit Distillation via Non-Target Classes Decomposition	Ninghua Dong, Zhen Liu, Xiang He, and Yiran Li	Short
BigD 402	SkipSNN: Efficiently Classifying Spike Trains with Event-attention	Hang Yin, Yao Su, Liping Liu, Thomas Hartvigsen, Xin Dai, and Xiangnan Kong	Short
BigD	Deep Learning Service for Efficient Data Distribution	Xiaoke Zhu, Qi Zhang, Wei	
311	Aware Sorting	Zhou, and Ling Liu	Short
BigD 393	CATS: Contrastive learning for Anomaly detection in Time Series	Joël Roman Ky, Bertrand Mathieu, Abdelkader Lahmadi, and Raouf Boutaba	Short
BigD 541	Incomplete Multi-kernel k-means Clustering With Fractional-order Embedding	Deheng Xu, Yun Li, Yun-Hao Yuan, Jipeng Qiang, and Yi Zhu	Regular

	D2S6: Big Data Analytics IV		Red: Online video presentation (not played in room). Access via program link.
BigD	A Semi-Supervised Model for Non-Cellular Elements	Zihao Xu, Peter Nordström, Sina Sheikholeslami, Ahmad 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
BigD 537	GAN Stabilization Under Practical Training Assumptions	Joshua DeOliveira, Walter Gerych, and Elke Rundensteiner	Regular
BigD 578	Edge Grading in Trading Cards Using Transfer Learning: Methods, Experiments, and Evaluation	Lutfun Nahar, Md. Saiful Islam, Mohammad Awrangjeb, and Rob Verhoeve	Short
BigD 596	Global-local Fourier Neural Operator for Accelerating Coronal Magnetic Field Model	Yutao Du, Qin Li, Raghav Gnanasambandam, Mengnan Du, Haimin Wang, and Bo Shen	Short
BigD 731	Semi-Supervised Multi-Source Sea Ice Classification in Small-Data Regime	Samira Alkaee Taleghan, Morteza Karimzadeh, Andrew P.Barrett, Walter N.Meier, and Farnoush Banaei-Kashani	Short
BigD 510	Educational Digital Twin: Tackling Complexity in Educational Big Data	Luwen Huang and Karen Willcox	Short
BigD 456	MIBR: Bridging Domains through Diverse Interests for Cross-Domain Sequential Recommendation	Chengzhe Zhang, Xu Min, Changsheng Li, Xiaolu Zhang, Weichang Wu, Jun Zhou, Ye Yuan, and Guoren Wang	Regular
BigD 572	Meta-Learning for Debiasing Recommendation using Simulated Uniform Data	sibo lu, Zhen Liu, xinxin yang, yilin ding, yibo gao, and yafan yuan	Short
BigD 650	Divide2Conquer (D2C): A Decentralized Approach Towards Overfitting Remediation in Deep Learning	Md. Saiful Bari Siddiqui, Md Mohaiminul Islam, and Md. Golam Rabiul Alam	Short
BigD 584	Alternative Methods to SHAP Derived from Properties of Kernels: A Note on Theoretical Analysis	Kazuhiro Hiraki, Shinichi Ishihara, and Junnosuke Shino	Short
BigD 556	Improving Multi-Domain Task-Oriented Dialogue System with Offline Reinforcement Learning	Dharmendra Prajapat and Durga Toshniwal	Short
BigD	A Data-Driven Approach for Automated Multi-Site	Ming Hui Tan, Kar Way	Short

616 Competitive Facility Location Tan, and Hoong Chuin Lan Commercial Space Classification and Prediction with BigD Machine Learning and Multiple Data Sources: A	
BigD Machine Learning and Multiple Data Sources: A	
713 Case Study of Milan Jiabin Wei	Short
DANCE: Deep Learning-Assisted Analysis of ProteiN Taslim Murad, Prakash	
BigD Sequences Using Chaos Enhanced Kaleidoscopic Chourasia, Sarwan Ali,	
724 Images and Murray Patterson	Short
,	Red: Online video
D1S10: Deep Learning I	presentation (not played in room).
	Access via program
[Vision Paper] Quality-Aware Experience	link.
BigD Exploitation in Model-Based Reinforcement Guang Yang, Jiahe Li, Ziye	
558 Learning Geng, and Changqing Luc	
Guang Yang, Ziye Geng,	Negulai
Jiahe Li, Yanxiao Zhao,	
BigD A Feedback-based Decision-Making Mechanism for Sherif Abdelwahed, and	
	Regular
559 Actor-Critic Deep Reinforcement Learning Changqing Luo Alexandra Zytek, Sara	negulai
Pido, Sarah Alnegheimish	
	'
	Pogular
	Regular
BigD Data-driven Synchronization Protocols for George Klioumis and Data-parallel Neural Learning over Streaming Data Nikos Giatrakos	Regular
MohammadReza	Regulai
EskandariNasab, Shah	
BigD SeriesGAN: Time Series Generation via Adversarial Soukaina Filali	
	Pogular
	Regular Red: Online video
D1S11: Machine Learning	presentation (not
Algorithms I	played in room). Access via program
	link.
Cheolmin Kim, Youngseol	
Kim, Yegna Subramanian	
BigD Stochastic Scale Invariant Power Iteration for Jambunath, and Diego	
623 KL-divergence Nonnegative Matrix Factorization Klabjan	Regular
Junhong Lin, Xiaojie Guo,	
Shuaicheng Zhang, Dawe	
BigD UnifiedGT: Towards a Universal Framework of Zhou, Yada Zhu, and	
633 Transformers in Large-Scale Graph Learning Julian Shun	Regular
ORIS: Online Active Learning Using Reinforcement	
BigD Learning-based Inclusive Sampling for Robust Rahul Pandey, Ziwei Zhu,	
648 Streaming Analytics System and Hemant Purohit	Regular
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Enhancing Big Data Analysis: A Recursive Window	
BigD Segmentation Strategy for Multivariate Longitudinal Desmond Fomo and	
	Regular

604	Time Series	Ahmadzadeh, and Krishna Rukmini Puthucode	
BigD 641	OSR-ViT: A Simple and Modular Framework for Open-Set Object Detection and Discovery	Matthew Inkawhich, Nathan Inkawhich, Hao Yang, Jingyang Zhang, Randolph Linderman, and Yiran Chen	Regular
041	D1S12: Deep learning II	Runner-up for Best Paper Award	Red: Online video presentation (not played in room). Access via program link.
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 BigD 719	Learning against Unexpected Quitting of Parties Effective Guidance for Model Attention with Simple Yes-no Annotations	and Yiran Chen Seongmin Lee, Ali Payani, and Duen Horng Chau	Regular 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
	D2S9: Machine Learning Algorithms II	Best Student Paper Award	Red: Online video presentation (not played in room). Access via program link.
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	Regular
BigD 319 BigD	OL4TeX: Adaptive Online Learning for Text Classification under Distribution Shifts Fine-grained Graph-based Anomaly Detection on	Min-Seon Kim, Ling Liu, and Hyuk-Yoon Kwon Isaiah J. King, Benjamin	Short
250	Vehicle Controller Area Networks	Bowman, and H. Howie	Short

		Huang	
		Huang	
		Loredana Caruccio,	
DiaD	DVAN: A tool for explaining and visually analyzing	Stefano Cirillo, Gianpaolo	
BigD	RYAN: A tool for explaining and visually analyzing	Iuliano, Giuseppe Polese, and Roberto Stanzione	Chaut
628	the evolution of Relaxed Functional Dependencies		Short
		Qi Le, Enmao Diao, Xinran	Danislau V Dant
D: D	Description of the section of the Description	Wang, Ahmad Faraz	Regular 6 Best
BigD	DynamicFL: Federated Learning with Dynamic	Khan, Vahid Tarokh, Jie	Student Paper
733	Communication Resource Allocation	Ding, and Ali Anwar	Award
	A Hybrid Model Based on Graph Convolutional	Dongsheng Li, Kun Niu,	
BigD	Network and Multi-head Transformer for Joint	Xiao Chen, and Zhihai	
764	Multiple Intent Detection and Slot Filling	Wang	Regular Red: Online video
	D3S2: Machine Learning	Runner-up for Best	presentation (not
	Algorithms III	Student PAper Award	played in room).
	Algorithms in	·	Access via program link.
BigD	Pre-Trained Language Models with Topic Attention		
801	for Supervised Document Structure Learning	Dang Pham and Tuan Le	Regular
BigD	MADOD: Generalizing OOD Detection to Unseen	Haoliang Wang, Chen	
858	Domains via G-Invariance Meta-Learning	Zhao, and Feng Chen	Regular
		Sulabh Shrestha,	
BigD	Real-Time Video Analysis for Accurate Biometric	Emanuela Marasco, and	
832	Identity Verification in Mobile Devices	Babek Norouzlou	Regular
	,		Regular
		Giacomo Ziffer, Federico	Runner-up for
BigD	Tenet: Benchmarking Data Stream Classifiers in	Giannini, and Emanuele	Best Student
840	Presence of Temporal Dependence	Della Valle	PAper Award
	· · · · · · · · · · · · · · · · · · ·	Kai Jiang, Chen Zhao,	
BigD	FEED: Fairness-Enhanced Meta-Learning for Domain	Haoliang Wang, and Feng	
856	Generalization	Chen	Regular
	2FWL-SIRGN: A Scalable Structural 2-dimensional		
BigD	Folklore Weisfeiler Lehman Graph Representation	Justin Carpenter and	
817	Learning Approach Via Structural Graph Partitioning	Edoardo Serra	Regular
BigD	Personalized Federated Learning by Domain-Aware	Yuto Suzuki and Farnoush	
251	Network Pruning and Re-growth	Banaei-Kashani	Short
		Weiging 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
	, 5	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,	- 1-11
706	Activated Neuron Identification	and Yuanyuan Yang	Short
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		Sara Nassar, Samir	
		Belhaouari, Mebarka	
BigD	Initialization Method for t-Distributed Stochastic	Allaoui, and Mohammed	
219	Neighbour Embedding (t-SNE)	Kherfi	Short
	D1S13: Big Data Applications I		Red: Online video presentation (not played in room). Access via program link.
BigD	Predicting ChatGPTs Ability to Solve Complex	Nguyen Ho, James May, Bao Ngo, Jack Formato, Linh Ngo, Van Long Ho,	
227	Programming Challenges	and Hoang Bui	Regular
BigD	A Confidence-Based Power-Efficient Framework for	Hsu-Chao Lai, Po-Hsiang Fang, Yi-Ting Wu, Lo Pang-Yun Ting, and	
323	Sleep Stage Classification on Consumer Wearables	Kun-Ta Chuang	Regular
BigD	Evaluate the Policy Impact of Temporary Suspension of Social Media Account using Synthetic Control	King up Fu	Dogular
352	Method	King wa Fu	Regular
BigD	SparrowVQE: Visual Question Explanation for Course	Jialu Li, Manish Thota,	
331	Content Understanding	Holik, and Youshan Zhang	Regular
		Bruno Yuiti Leão Imai,	
BigD 340	Is it Fine to Tune? Evaluating SentenceBERT Fine-tuning for Brazilian Portuguese Text Stream Classification	Cristiano Mesquita Garcia, Marcio Vinicius Rocha, Alessandro Lameiras Koerich, Alceu de Souza Britto Jr., and Jean Paul Barddal	Regular
		Shoutai Zhu, Ziqiang	
DiaD	Enhancing Financial Reasoning in Large Language	Yuan, Kaiyuan Wang, Yishu Zhang, and Wenqi	
BigD 334	Models: The Role of Gold Facts	Wei	Regular
55 F	D1S14: Big Data Applications II		Red: Online video presentation (not played in room). Access via program link.
		Hanwen Liu, Daniel Hajialigol, Benny Antony,	
BigD 348	EEG2TEXT: Open Vocabulary EEG-to-Text Translation with Multi-View Transformer	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	[Vision Paper] PRObot: Enhancing Patient-Reported	Maren Pielka, Tobias	
408	Outcome Measures for Diabetic Retinopathy using	Schneider, Jan Terheyden,	Regular

	Chatbots and Generative Al	and Rafet Sifa	
		Bo Shen, Marco Marena,	
BigD	Deep Computer Vision for Solar Physics Big Data:	Chenyang Li, Qin Li, Haodi Jiang, Mengnan Du, Jiajun	
468	Opportunities and Challenges [Vision Paper]	Xu, and Haimin Wang	Regular
	j i j	Kazi Ashik Islam, Da Qi	
		Chen, Madhav Marathe,	
		Henning Mortveit,	
BigD 606	A Scalable Game-theoretic Approach to Urban Evacuation Routing and Scheduling	Samarth Swarup, and Anil Vullikanti	Regular
000	Evacuation Routing and Scheduling	JinGee Kim, Yong-chan	neguiai
BigD	Accurate Stock Movement Prediction via Multi-Scale	Park, Jaemin Hong, and U	
450	and Multi-Domain Modeling	Kang	Regular
	Melanoma Classification using GAN based	Akanksha Lal, Sadhana	
BigD	augmentation and Self-Supervised feature	Tiwari, Rushil Patra, and	
626	extraction	Sonali Agrawal Qiwen Zheng, Shun Mao,	Short
BigD	EGANKT: Enhancing Graph-Attention Networks for Knowledge Tracing by Predicting Concepts and	Kai Chen, and Yuncheng	
615	Abilities	Jiang	Regular
		Yunlong Fan, Baixuan Li,	
BigD	Constructing A Human-Centered Dataset for Second	Zhiheng Yang, and	
388	Language Acquisition via Large Language Models	Zhiqiang Gao	Regular
		Tunhou Zhang, Wei Wen,	
		Igor Fedorov, Xi Liu, Buyun Zhang, Fangqiu	
		Han, Wen-Yen Chen,	
BigD	DistDNAS: Search Efficient Feature Interactions	Yiping Han, Feng Yan, Hai	
639	within 2 Hours	Li, and Yiran Chen	Short
	D1S15: Big Data Analytics I		Red: Online video presentation (not
		Honorable Mention	played in room). Access via program
		for Best Paper Award	link.
		Jeovane Honorio Alves,	
		Radu State, Cinthia Obladen de Almendra	
BigD		Freitas, and Jean Paul	
659	LongKey: Keyphrase Extraction for Long Documents	Barddal	Regular
		Chengjie Zheng,	-
		Tewodros Mulugeta	
	Animal IEDA: Advancing Animal Dahaviar Childina	Dagnew, Liuyue Yang, Wei	
BigD	Animal-JEPA: Advancing Animal Behavior Studies Through Joint Embedding Predictive Architecture in	Ding, Shiqian Shen, Changning Wang, and	
698	Video Analysis	Ping Chen	Regular
	•	Dian Chen, Paul Yang,	Ü
BigD	susFL: Federated Learning-based Monitoring for	Dong Sam Ha, and	
597	Sustainable, Attack-Resistant Smart Farms	Jin-Hee Cho	Regular

		I	
		Tianle Wang, Jorge	_
		Ramirez, Cristina	Regular
	An Active Learning-Based Streaming Pipeline for	Garcia-Cardona, Thomas	Honorable
BigD	Reduced Data Training of Structure Finding Models	Proffen, Shantenu Jha,	Mention for Best
749	in Neutron Diffractometry	and Sudip Seal	Paper Award
		Trilok Padhi, Ugur	
		Kursuncu, Yaman Kumar,	
BigD	Enhancing Cross-Modal Contextual Congruence for	Valerie L. Shalin, and Lane	
769	Crowdfunding Success using Knowledge Graphs	Peterson Fronczek	Regular
BigD	0 0 1		
696	SE(3) Equivariant Neural Network for 3D Graphs	Sarp Aykent and Tian Xia	Regular
			Red: Online video
	D1S16: Big Data Analytics II		presentation (not played in room).
			Access via program
			link.
BigD	Efficient Arrhythmia Detection Using Progressive	Tavonput Luangphasy and	
799	Resolution Shrinking	Xinghui Zhao	Regular
		Lei Gong, Aidong Zhang,	
BigD	Context-Specific Feature Augmentation for	Andrey Shor, and Kishlay	
838	Improving Social Determinants of Health Extraction	Jha	Regular
	PerSSD: Persistent, Shared, and Scalable Data with	Paula Olaya, Sophia Wen,	
BigD	Node-Local Storage for Scientific Workflows in Cloud	Jay Lofstead, and Michela	
687	Infrastructure	Taufer	Regular
		Palak Sood, Chengyang	
BigD	Understanding Student Sentiment on Mental Health	He, Divyanshu Gupta, Yue	
846	Support in Colleges Using Large Language Models	Ning, and Ping Wang	Regular
BigD	2. p. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3, 1 3 3	-0-
834	SO(3) Equivariant Framework for Spatial Networks	Tian Xia and Sarp Aykent	Regular
		Transfer date out projection	Red: Online video
	D1S17: Big Data Analytics III		presentation (not
			played in room). Access via program
			link.
		Charalampos Chelmis,	
		Mahsa Azarshab,	
BigD	Reject Inference as a Noisy Label Detection and	Khandker Sadia Rahman,	
406	Counterfactual Correction Task	and Mehrdad Mirpourian	Short
		Beatrice Insalata, Fabian	
BigD	Multimodal survival prediction using	Schmidt, and Vladimir	
407	TabTransformer and BioClinicalBERT on MIMIC-III	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

BigD	Estimate Causal Effects of Entangled Treatment on	JINGYUAN CHOU, 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
		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
		Austin Yunker, Jason Luce,	
		John C. Roeske, Rajkumar	
D: -D	Naissalausana fan 3D Laus Daga Cama Daga	Kettimuthu, Hyejoo Kang,	
BigD	Noise2Inverse for 3D Low-Dose Cone-Beam	Sebastien Gros, and Alec	Ch
503	Computed Tomography	M. Block	Short
D:~D	Prioritizing Potential Wetland Areas via	Yoonhyuk Choi, Reepal	
BigD	Region-to-Region Knowledge Transfer through	Shah, John Sabo, Huan	Chaut
223	Domain Disentanglement and Adaptive Propagation	Liu, and Selçuk Candan	Short
	Construction and Application of the CAAADT Adada	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	Chaut
274	Knowledge Graphs	Su, and Lingge Meng	Short
	EXCON: Extreme Instance-based Contrastive	Onur Vural, Shah	
D:-D	Representation Learning of Severely Imbalanced	Muhammad Hamdi, and	
BigD	Multivariate Time Series for Solar Flare Prediction	Soukaina Filali	Chaut
564	Tasks	Boubrahimi	Short
D:-D	VOLOU10 Commuter Vision Bouferness	Manuel Blaser, Wesley	
	YOLOv10 Computer Vision Performance	Porter, Luke Fuhrer, and	Chaut
501	Measurement for Agricultural Vacuum Seed Meters	Thirimachos Bourlai	Short
BigD	A Triple Factorization-Based Coupled Latent Factor	Yunchun Xian, Qicong Hu,	Chaut
567	Analysis Model for Recommender Systems	and Hao Wu	Short
D: - D	Data Calanas and Massive Cours Calling Cours	Damian Andrew Tamburri	
BigD	Data Science and Massive Open Online Courses	and Willem-Jan van den	Chaut
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, LImeng 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 https://www3.cs.stonybrook.edu/~ieeebigdat-a2024/SS_FL_BIGDATA2024_detailed_prog-ram	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 Columbia 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: #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
Combined Workshops: Workshop #26: 8th International Workshop on Big Data Analytics for Cyber Intelligence and Defense (BDA4CID 2024) https://bda4cid.github.io/ Workshop #27: 3rd International Workshop on Big Data Analytics for Health and Medicine (BDA4HM 2024) https://bda4hm.github.io/ Workshop #28: 4th International Workshop on Big Data Analytics for Sustainability (BDA4S 2024) https://bda4s.github.io/	Dec 16, Whole Day	Chair: Stephen McGough
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 (AIPREF) & #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	Dec 16, Whole Day	Chairs: Ester Zumpano, Luciano Caroprese, Tommaso Ruga, Eugenio Vocaturo

https://sites.google.com/dimes.unical.it/chbdbigdata2024/home-page		
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

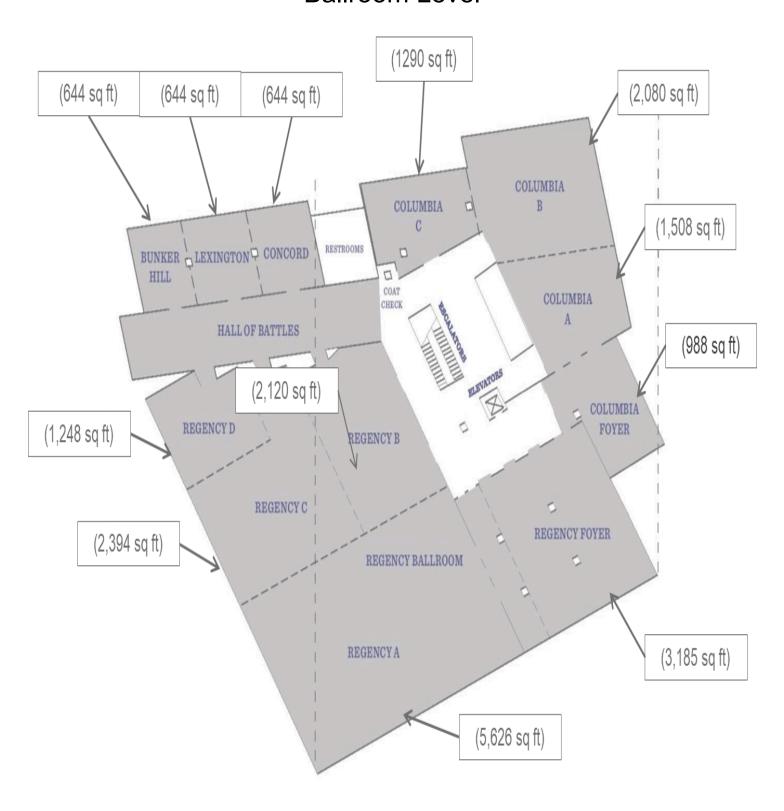
Online Challenge Cup Sessions

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 Website:	Dec. 15, Afternoon	Chair: Qingyun Sun sunqy@buaa.ed u.cn	
https://social-network-competition-gxqpe2ab8eh9atpe6hneu3.streamlit.app/			
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	

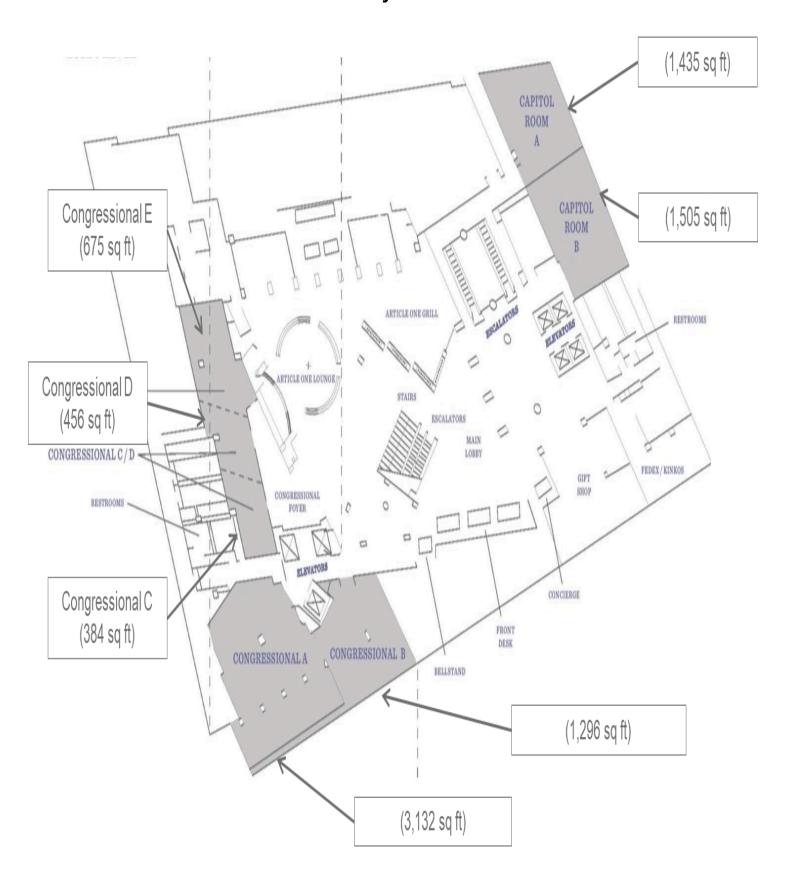
Website: https://orddc2024.sekilab.global/		11@gmail.com
Challenge Cup #6: Challenges of Trustworthy AI in Distribution Shifts and Algorithmic Fairness Website:	Dec. 17, Morning	Chair: Minglai Shao shaoml@tju.edu. cn
https://bigdatacup-e2j7tqwypbrkm8zsmqstmm.streamlit.app/		

Hotel Floor Layout

Ballroom Level



Lobby Level



2nd Floor Conference

