# IEEE BigData 2024 Program Schedule Washington, DC, USA

#### Conference time zone: US Eastern Standard Time

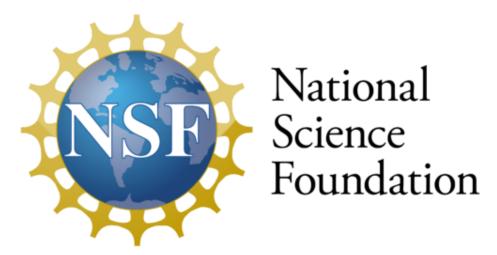
The link to download the BigData 2024 conference proceedings for BigData24 and access the pre recorded videos is:

#### **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
14:00-18:00	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	<b>Poster Display</b> (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	Grand Teton	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	

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

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 Casial Madia 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	Cht
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	
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BigD 834 SO(3) Equivariant Framework for Spatial Networks  D1S17: Big Data Analytics III  Charalampos Chelmis, Mahsa Azarshab, Khandker Sadia Rahman, and Mehrdad Mirpourian Short  BigD Multimodal survival prediction using 407 TabTransformer and BioClinicalBERT on MIMIC-III Vlassov  T2I-RISE - A Comprehensive Approach with  Tian Xia and Sarp Aykent  Regular  Charalampos Chelmis, Mahsa Azarshab, Khandker Sadia Rahman, and Mehrdad Mirpourian Short  Beatrice Insalata, Fabian Schmidt, and Vladimir Vlassov  Short  Raghu Chandra Katikeri,	BigD 834 SO(3) Equivariant Framework for Spatial Networks  D1S17: Big Data Analytics III  Charalampos Chelmis, Mahsa Azarshab, Khandker Sadia Rahman,	
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Charalampos Chelmis, Mahsa Azarshab, Reject Inference as a Noisy Label Detection and Counterfactual Correction Task  BigD Multimodal survival prediction using Multimodal survival prediction using TabTransformer and BioClinicalBERT on MIMIC-III  T21-RISE - A Comprehensive Approach with  Charalampos Chelmis, Mahsa Azarshab, Khandker Sadia Rahman, and Mehrdad Mirpourian Short  Beatrice Insalata, Fabian Schmidt, and Vladimir Vlassov Short Raghu Chandra Katikeri,	Charalampos Chelmis, Mahsa Azarshab, BigD Reject Inference as a Noisy Label Detection and Khandker Sadia Rahman,	
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T2I-RISE - A Comprehensive Approach with Raghu Chandra Katikeri,		
Conversational Context and Feedback Systems for     Sai Phaniraja Maddila, Sai		
BigD Text-to-Insights with Reinforcement learning, Pratheek, Rajvi Desai		
477   Integration of Semantic layers and Enrichment   Rirenbhai Amit Vaid   Short	477   Integration of Semantic layers and Enrichment   Birenbhai, Amit Vaid,   Short	

		Neelesh Shukla, and	
		Sandeep Jain	
BigD		Ye Xue, Diego Klabjan,	
829	Multimodal Learning on Temporal Data	and Jean Utke	Short
BigD 755	Estimate Causal Effects of Entangled Treatment on Graphs using Disentangled Instrumental Variables	JINGYUAN CHOU, JIANGZHUO CHEN, and MADHAV MARATHE	Short
BigD 760	On Rank Selection for Nonnegative Matrix Factorization	Srinivas Eswar, Koby Hayashi, Benjamin Cobb, Ramakrishnan Kannan, Grey Ballard, Richard Vuduc, and Haesun Park	Short
BigD 479	EVOLVE: Evaluation of Language-to-SQL Validity and Effectiveness - A Detailed Review Framework for Complex Text-to-SQL Queries	Raghu Chandra Katikeri, Alok Nook Raj Pepakayala, Lokesh Kuncham, Rachita Barla, Tarun Kasula, Sai Charan Ravulapally, and Amit Vaid	Short
BigD 503	Noise2Inverse for 3D Low-Dose Cone-Beam Computed Tomography	Austin Yunker, Jason Luce, John C. Roeske, Rajkumar Kettimuthu, Hyejoo Kang, Sebastien Gros, and Alec M. Block	Short
	Prioritizing Potential Wetland Areas via	Yoonhyuk Choi, Reepal	
BigD	Region-to-Region Knowledge Transfer through	Shah, John Sabo, Huan	
223	Domain Disentanglement and Adaptive Propagation	Liu, and Selçuk Candan	Short
BigD 274	Construction and Application of the SMART Model for Adaptive Industrial Data Collection Based on Knowledge Graphs	Wendan Cheng, Zhen Zhang, Heng Qian, Qiuyue Wang, Guanqun Su, and Lingge Meng	Short
BigD 564	EXCON: Extreme Instance-based Contrastive Representation Learning of Severely Imbalanced Multivariate Time Series for Solar Flare Prediction Tasks	Onur Vural, Shah Muhammad Hamdi, and Soukaina Filali Boubrahimi	Short
304	TUJNJ	Manuel Blaser, Wesley	SHOLL
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, 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 E	3
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 <a href="https://tetsuwaka.net/UNMDSSSE2024/schedule.html">https://tetsuwaka.net/UNMDSSSE2024/schedule.html</a>		
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 <a href="https://www.panda.sys.t.u-tokyo.ac.jp/Syn_Mobil.html">https://www.panda.sys.t.u-tokyo.ac.jp/Syn_Mobil.html</a>	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) <a href="https://sites.google.com/view/bigeacps24">https://sites.google.com/view/bigeacps24</a>	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 <a href="https://aidatalab.github.io/bigdata2024/pastworkshopd.html">https://aidatalab.github.io/bigdata2024/pastworkshopd.html</a>	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) <a href="https://xuanwang91.github.io/fm4science-workshop/https://hpcbod.cs.fiu.edu/">https://hpcbod.cs.fiu.edu/</a>	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 <a href="https://lc4workshop.github.io/constraint.html">https://lc4workshop.github.io/constraint.html</a>	Dec 15, Morning	Chair: Manikandan Ravikiran
Workshop #45: 2nd International Workshop on Dataspaces and Digital Twins for Critical Entities and Smart Urban Communities (DSpaCES) <a href="https://sites.google.com/unisalento.it/dspaces2024">https://sites.google.com/unisalento.it/dspaces2024</a>	Dec 15, Morning	Chair: Marco Zappatore
Workshop #49: The 8th IEEE International Workshop on Big Spatial Data (BSD 2024) <a href="https://confeera.com/conf/4/bsd-2024/about">https://confeera.com/conf/4/bsd-2024/about</a>	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) <a href="https://bda4cid.github.io/">https://bda4cid.github.io/</a>	Dec 15, Whole Day	Chair: Stephen McGough	
Workshop: #31: International Workshop on Scalable and Deep Graph Learning and Mining <a href="https://project.inria.fr/sglm/">https://project.inria.fr/sglm/</a>	Dec 15, Whole Day	Wissem Inoubli	
Dec. 16, Monday			
Workshop #16: 12th International Workshop on Distributed Storage and Blockchain Technologies for Big Data <a href="https://web.pkusz.edu.cn/itfna/workshop24/">https://web.pkusz.edu.cn/itfna/workshop24/</a>	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 <a href="https://knowrel.com/IEEE_BIGDATA_2024_BIGETHICS/">https://knowrel.com/IEEE_BIGDATA_2024_BIGETHICS/</a>	Dec 16, Morning	Chair: Keisuke Nakamura	
Workshop #27: 3rd International Workshop on Big Data Analytics for Health and Medicine (BDA4HM 2024) <a href="https://bda4hm.github.io/">https://bda4hm.github.io/</a>	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 <a href="https://u2bigdata.github.io/">https://u2bigdata.github.io/</a>	Dec 17, Morning	Chair: Wutao Wei	

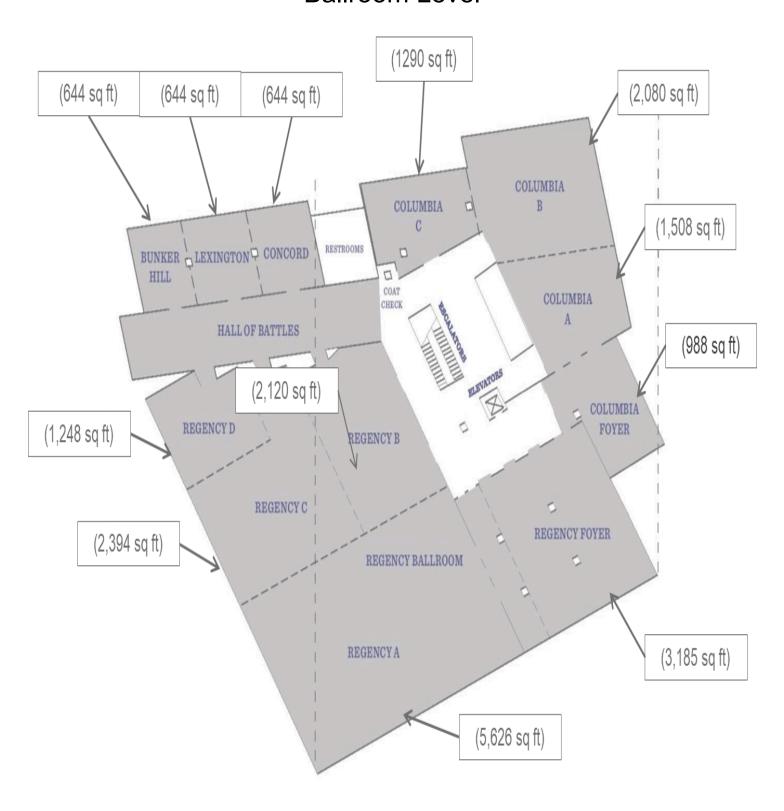
Workshop #29: Trustworthy Machine Learning for Healthcare https://sites.google.com/view/trustml4health24/	Dec 17, Morning	Chair: Xiao Shou
Workshop #28: 4th International Workshop on Big Data Analytics for Sustainability (BDA4S 2024) <a href="https://bda4s.github.io/">https://bda4s.github.io/</a>	Dec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

# **Online Challenge Cup Sessions**

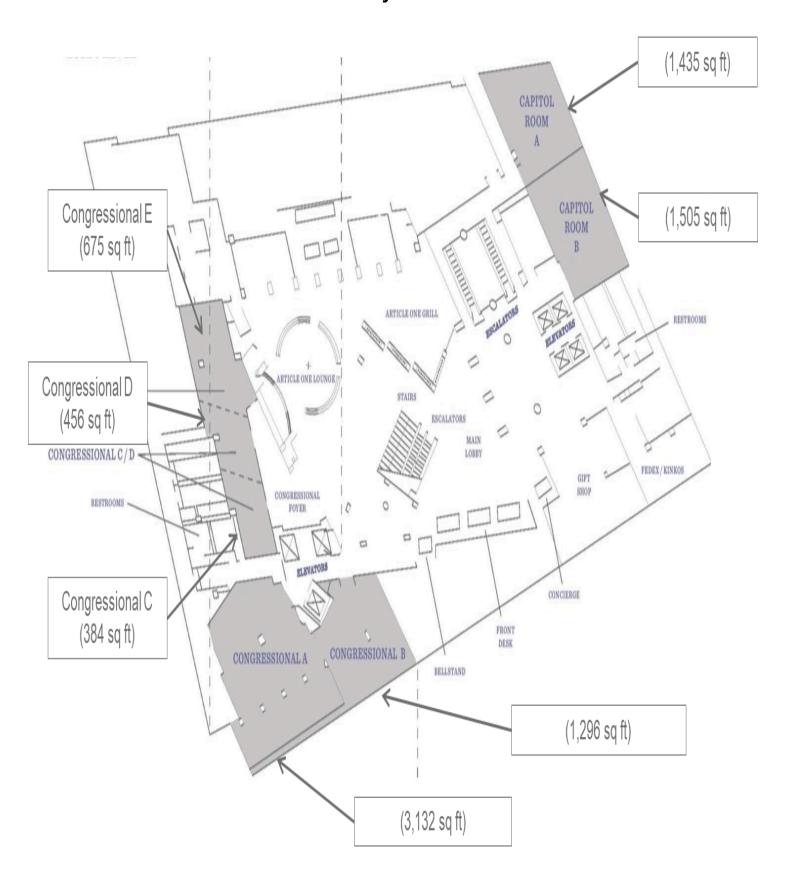
Dec. 15, Sunday			
Challenge Cup #5: Suicide ideation detection on social media	Dec. 15, Morning	Chair: Jun Li 21118786r@con	
Website: https://competitionpolyu.github.io/		nect.polyu.hk	
Challenge Cup #4: Characterizing User Behavior in Social Networks: Propagation, Prediction, and Sensemaking	Dec. 15, Afternoon	Chair: Qingyun Sun sunqy@buaa.ed	
Website: <a href="https://social-network-competition-gxqpe2ab8eh9atpe6hneu3.">https://social-network-competition-gxqpe2ab8eh9atpe6hneu3.</a> <a href="mailto:streamlit.app/">streamlit.app/</a>		<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

