

# 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                 |

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|-------------|------------------|---|--|
| 9:00-17:00  | Capitol Room - B | Workshop #23: The 5th International Workshop on Big Data & AI 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 #9: 4th Workshop on Knowledge Graphs and Big Data In conjunction with the IEEE Big Data 2024                                       | Yuan An                                      |
| 9:00-17:00  | Columbia - A     | Workshop #7: 2nd Workshop on AI Music Generation with AI Music Competition (AIMG 2024)  | Callie Liao                                  |
| 9:00-17:00  | Columbia - B     | Workshop #38: Workshop on Big Data and AI for Healthcare  | Ping Chen                                    |
| 14:00-18:00 | Columbia - C     | Workshop #39: The Seventh Workshop on Big Data for Economic and Business Forecasting  | Wei Shang                                    |
| 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                        | <b>Opening Ceremony</b><br>Conference Chairs: Chang-Tien Lu (Virginia Tech)<br>Fusheng Wang (Stony Brook U.)<br>PC Chairs: Wei Ding (U. of Massachusetts, Boston)<br>Liping Di (George Mason U.)<br>Ricardo Baeza-Yates (Northeastern U.)<br>I&G Chairs: Kesheng Wu, (Lawrence Berkeley National Lab)<br>Raghu Nambiar (AMD)<br>Luke Jun Huan (Amazon)<br>Steering Committee Chair: Xiaohua (Tony) Hu (Drexel U.)<br>Location: Regency Ballroom |  |               |
| 9:00-10:00                       | <b>Keynote Speech I</b><br>Dr. Haixun Wang, Instacart, USA<br><b>Generative Information Retrieval and E-commerce</b><br>Location: Regency Ballroom  |  |               |
| 10:00-10:30                      | Columbia Foyer  | Coffee Break   |               |
| 10:00-10:30                      | Regency Foyer<br>Columbia Foyer   | <b>Poster Display</b><br>(Session Chairs: Kaiqun Fu, Yufei 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 | Yellowstone      | Workshop #8: 4th IEEE Big Data Workshop on Multimodal AI (MMAI 2024)  | Lindi Liao  |
| 14:00-18:00 | Everglades       | Workshop #34: The 8th Annual Workshop on Applications of Artificial Intelligence in the Legal Industry  | Han Qin   |
| 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            | <p>Joint Session<br/>Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment</p> <p>Special Session: Understanding New Markets by Data Science, Social Science, and Economics</p> | <p>Teruaki Hayashi<br/>Naoki Watanabe<br/>Hiroki Sakaji</p> |
| 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 | <b>Lunch</b>     |   |   |
| 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   |   |

|             |                                 |   |   |
|-------------|---------------------------------|---|---|
| 14:00-16:00 | Columbia B                      | D1S10: Deep Learning I  |   |
| 14:00-16:00 | Congressional A                 | D1S11: Machine Learning Algorithms I  |   |
| 14:00-16:00 | Congressional B                 | D1S12: Deep Learning II   |   |
| 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                           | <p>Joint Session<br/>Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment</p> <p>Special Session: Understanding New Markets by Data Science, Social Science, and Economics</p> | <p>Teruaki Hayashi<br/>Naoki Watanabe<br/>Hiroki Sakaji</p> |
| 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                  | <b>Coffee Break</b>   |   |
| 16:00-16:30 | Regency Foyer<br>Columbia Foyer | <b>Poster Display</b><br>(Session Chairs: Kaiqun Fu, Yufei Tang)  |   |
| 16:30-18:00 | Capitol A                       | D1S13: Big Data Applications I  |   |
| 16:30-18:00 | Capitol B                       | D1S14: Big Data Applications II   |   |
| 16:30-18:00 | Columbia B                      | D1S15: Big Data Analytics I   |   |
| 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                           | <p>Joint Session<br/>Workshop #14: 2nd WS on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment</p> <p>Special Session: Understanding New</p>  | <p>Teruaki Hayashi<br/>Naoki Watanabe<br/>Hiroki Sakaji</p> |

|             |                 |  |                     |
|-------------|-----------------|--|---------------------|
|             |                 | 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                        | <b>Keynote Speech II</b><br>Prof. Cornelia Caragea, USA and U. of Illinois Chicago, USA<br><b>Improving Semi-Supervised Learning with Pseudo-Margins</b><br>Location: Regency Ballroom |  |                     |
| 10:00-10:30                       | Columbia Foyer   | Coffee Break   |                     |
| 10:00-10:30                       | Regency Foyer<br>Columbia Foyer  | <b>PhD Forum Poster Display</b><br>(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   |                     |
| 9:00-17:00                        | 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:<br>Beyond the Dissertation: Insights into Academic and Industry Careers | Feng Chen              |
| 12:30-14:00 | <b>Lunch</b>                    |  |                        |
| 14:30-16:00 | Regency Ballroom                | Panel: Federal Geospatial Big Data Initiatives and Activities                            | Liping Di              |
| 14:00-16:00 | Capitol A                       | D2S7: Multimodal and Scalable Big Data   |                        |
| 14:00-16:00 | Capitol B                       | D2S8: Link and Graph Mining I  |                        |
| 14:00-16:00 | Columbia A                      | D2S9: Machine Learning Algorithms II   |                        |
| 14:00-16:00 | Yosemite                        | Special Session: Synergizing Mobility Data for Creating and Discovering Valuable Places  | Yukio Ohsawa           |
| 14:00-16:00 | Grand Teton                     | Special Session: Data-Driven Designation and Implementation of Automated Guided Vehicles | Jerry Chun-Wei Lin     |
| 14:00-16:00 | Glacier                         | Special session: Privacy and Security of Big Data  | Alfredo Cuzzocrea      |
| 14:00-17:30 | Concord                         | PhD Forum: Paper Session   | Feng Chen, Shuhan Yuan |
| 14:00-17:00 | Yellowstone                     | Workshop #10: International Workshop on Data Engineering and Modeling for AI (DEMAI)     | Carlos Ordonez         |
| 16:00-16:30 | Columbia Foyer                  | <b>Coffee Break</b>  |                        |
| 16:00-16:30 | Regency Foyer<br>Columbia Foyer | <b>PhD Forum Poster Display</b><br>(Session Chairs: Feng Chen, Shuhan Yuan)              |                        |

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

| Day 4: Wednesday, December 18, 2024 |   |  |                  |
|-------------------------------------|---|--|------------------|
| 8:30-17:00                          | Registration (Regency Foyer)  |  |                  |
| 9:00-10:00                          | <b>Keynote Speech III</b><br>Prof. Alexander “Sasha” Rush, Cornell Tech, USA<br><b>Designing Text Embeddings for the Future</b><br>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: AI4Science  | 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 <small>(Red indicates an online video presentation, not played in the conference room. Access it via the prerecorded video link in the conference program.)</small> |
|----------|--|--|--|
|          | <b>D1S4: Big Data Science and Foundations I</b>  |  |  |
| 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  |
|          | <b>D2S4: Big Data Science and Foundations II</b>   |  |  |
| BigD 665 | RPS: A Generic Reservoir Patterns Sampler  | Lamine Diop, Marc Plantevit, and Arnaud Soulet   | Short  |
| BigD 786 | Fairness in Monotone $\mathbb{R}^k$ -submodular Maximization: Algorithms and Applications                              | Yanhui Zhu, Samik Basu, and A. Pavan   | Short  |

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

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

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

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| BigD<br>383 | GNN-Based Persistent K-core Community Search in Temporal Graphs   | Zongli Jiang, Yirui Tan, Guoxin Chen, Fangda Guo, Jinli Zhang, and Xiaolu Bai  | Regular |
| BigD<br>225 | Closer through commonality: Enhancing hypergraph contrastive learning with shared groups  | Daeyoung Roh, Donghee Han, Daehee Kim, Keejun Han, and Mun Yong Yi   | Regular |
| BigD<br>304 | AGO-FT: An adaptive guided oversampling based on fast space division and trustworthy sampling space for imbalanced noisy datasets | Yi Deng, Min Wu, and Yan Ma  | Regular |
|             | <b>D2S5: Big Data Search and Mining II</b>  |  |         |
| BigD<br>427 | CANDE: A Lightweight Locality-Sensitive Hashing Add-on for Candidate-Based Distribution Estimation                                | Jingfan Meng, Huayi Wang, Kexin Rong, and Jun Xu   | Regular |
| BigD<br>658 | Optimizing Diverse Information Exposure in Social Graphs  | Jonathan Colin and Silviu Maniu  | Regular |
| BigD<br>539 | DyGCL: Dynamic Graph Contrastive Learning For Event Prediction  | Muhammad Ifte Khairul Islam, Khaled Mohammed Saifuddin, Tanvir Hossain, and Esra Akbas   | Regular |
| BigD<br>705 | Fast Distributed Memory Parallel Algorithms for Finding Connected Components in Large Graphs                                      | Maleq Khan and Sharon Boddu  | Regular |
| BigD<br>499 | Retrieving Top-k Hyperedge Triplets: Models and Applications  | Jason Niu, Ilya Amburg, Sinan Aksoy, and Ahmet Erdem Sariyuce  | Regular |
| BigD<br>617 | Parallel Motif-Based Community Detection  | Tianyi Chen and Charalampos Tsourakakis  | Regular |
| BigD<br>642 | Zero-Shot Relational Learning for Multimodal Knowledge Graphs   | Rui Cai, Shichao Pei, and Xiangliang Zhang   | Regular |
| BigD<br>691 | Automated Polynomial Filter Learning for Graph Neural Networks  | Wendi Yu, Zhichao Hou, and Xiaorui Liu   | Regular |
|             | <b>D2S7: Multimodal and Scalable Big Data</b>   |  |         |
| BigD<br>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<br>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,   | Regular |



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|          |   | Katherine Wolf, Marco Minutoli, and John Feo  |         |
| BigD 711 | Efficient Point-to-Subspace ANNS in Manhattan and Lp Space by LSH Pruning                                 | Jingfan Meng, Huayi Wang, and Jun Xu  | Regular |
| BigD 779 | QualityNet: Error-bounded Lossy Compression Quality Prediction via Deep Surrogate                         | Khondoker Mirazul Mumenin, Dong Dai, Jinzhen Wang, and Sheng Di   | Regular |
| BigD 811 | A Study of Data-Path Bugs in PyTorch with a Focus on Memory Management                                    | Rubayet Rahman Rongon, 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 879 | SAFENet: Towards a Robust Suicide Assessment Using Selective Prediction Framework                         | Usman Naseem, Surendrabikram Thapa, Siddhant Shah, Mohammad Salman, Qi Zhang, Junaid Rashid, Liang Hu, and Imran Razzak | Regular |
| BigD 767 | Fast Sentence Classification using Word Co-occurrence Graphs  | Ashirbad Mishra, Shad Kirmani, and Kamesh Madduri   | Regular |
|          | <b>D2S8: Link and Graph Mining I</b>  |   |         |
| 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 410 | Monarch: Distributed Butterfly Counting for Large-scale Bipartite Graph                                   | Yuxin Tang, Mangesh Bendre, and Mahashweta Das  | Short   |
| 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   |

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| BigD<br>604 | Multiscale Dubuc: A New Similarity Measure for Time Series  | Mahsa Khazaei, Azim Ahmadzadeh, and Krishna Rukmini Puthucode   | Short   |
| BigD<br>298 | DifStoryGen: Diffusion-Based Storytelling Algorithm with Distributed Attention  | Alireza Nouri and M. Shahriar Hossain   | Short   |
| BigD<br>494 | Federated Contrastive Learning of Graph-Level Representations   | Xiang Li, Gagan Agrawal, Rajiv Ramnath, and Ruoming Jin   | Short   |
|             | <b>D3S1: Link and Graph Mining II</b>   |   |         |
| BigD<br>652 | Norma: A Framework for Finding Threshold Associations Between Continuous Variables Using Point-wise Functions         | Md Mahin and Christoph F Eick   | Short   |
| BigD<br>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<br>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<br>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<br>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<br>882 | [Vision Paper] Next Topic Recommendation for Influencers on Social Media  | Masafumi Iwanaga, Keishi Tajima, and Yoko Yamakata  | Short   |
| BigD<br>851 | WalkBayes: Robust Node Classification via Bayesian Inference and Random Walks under Perturbations                     | Shuqi He and Jun Song   | Short   |
| BigD<br>873 | Efficient counting of balanced (2, k)-bicliques in Signed Bipartite Graphs  | Mekala Kiran, Apurba Das, and Suman Banerjee  | Short   |
|             | <b>D1S1: Foundation Models for Big Data</b>   |   |         |
| BigD<br>497 | Benchmarking Human and Automated Prompting in the Segment Anything Model  | Jorge Quesada, Zoe Fowler, Mohammad Alotaibi, Mohit Prabhushankar, and Ghassan AlRegib                                  | Regular |
| BigD<br>636 | Empowering Meta-Analysis: Leveraging Large Language Models for Scientific Synthesis                                   | Jawad Ibn Ahad, Rafeed Mohammad Sultan, Abraham Kaikobad, Fuad Rahman, Mohammad Ruhul Amin, Nabeel Mohammed, and Shafin | Regular |

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

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| BigD<br>866 | Mitigating Sycophancy in Large Language Models via Direct Preference Optimization                  | Azal Ahmad Khan, Sayan Alam, Xinran Wang, Ahmad Faraz Khan, Debanga Raj Neog, and Ali Anwar   | Short   |
| BigD<br>872 | SurgBox: Agent-Driven Operating Room Sandbox with Surgery Copilot                                  | Jinlin Wu, Xusheng Liang, Xuexue Bai, and Zhen Chen   | Short   |
| BigD<br>835 | Personalized Federated Learning Techniques: Empirical Analysis                                     | Azal Ahmad Khan, Ahmad Faraz Khan, Haidar Ali, and Ali Anwar                                  | Short   |
|             | <b>D1S7: Data Ecosystem</b>  |   |         |
| BigD<br>818 | Calibrating Practical Privacy Risks for Differentially Private Machine Learning                    | Yuechun Gu and Keke Chen  | Regular |
| BigD<br>238 | Vision Paper: Are Identity Verification Systems Adequately Tailored for Neurodiverse Individuals?  | Emanuela Marasco, Nora McDonald, and Vivian Genaro Motti                                      | Short   |
| BigD<br>330 | DP-TabICL: In-Context Learning with Differentially Private Tabular Data                            | Alycia Noel Carey, Karuna Bhaila, Kennedy Edemacu, and Xintao Wu                              | Short   |
| BigD<br>350 | SecureSphere: Advancing Security and Robustness in Query Processing over Outsourced Data           | Eray Dogan, Meghdad Mirabi, and Carsten Binnig  | Short   |
| BigD<br>736 | XSub: Explanation-Driven Adversarial Attack against Black-box Classifiers via Feature Substitution | Kiana Vu, Phung Lai, and Truc Nguyen  | Short   |
| BigD<br>746 | Factify: An Automated Fact-Checker for Web Information   | Ademola Adesokan and Shady Elbassuoni   | Short   |
| BigD<br>885 | Reconsider Time Series Analysis for Insider Threat Detection                                       | Chia-Cheng Chen and Hsing-Kuo Pao   | Short   |
| BigD<br>716 | HERL: Tiered Federated Learning with Adaptive Homomorphic Encryption using Reinforcement Learning  | Jiaxiang Tang, Zeshan Fayyaz, Mohammad Salahuddin, Raouf Boutaba, Zhi-Li Zhang, and Ali Anwar | Short   |
| BigD<br>761 | Challenging Fairness: A Comprehensive Exploration of Bias in LLM-Based Recommendations             | Shahnewaz Karim Sakib and Anindya Bijoy Das   | Short   |
| BigD<br>808 | Reliable Time Series Counterfactual Explanations Guided by ShapeDBA                                | Peiyu Li, Omar Bahri, Soukaina Filali Boubrahimi, and Shah Muhammad Hamdi                     | Short   |
| BigD<br>843 | Social Biases in Knowledge Representations of Wikidata separates Global North from Global South    | Paramita Das, Sai Keerthana Karnam, Aditya Soni, and Animesh Mukherjee                        | Short   |
| BigD<br>296 | Adversarial Reweighting Guided by Wasserstein Distance to Achieve Demographic Parity               | Xuan Zhao, Simone Fabbrizzi, Paula Reyero   | Short   |

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

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| BigD<br>859 | Context-Aware Diffusion-based Sequential Recommendation   | Di You and Kyumin Lee  | Regular |
| BigD<br>247 | Early Stopping Based on Repeated Significance   | Eric Bax, Arundhyoti Sarkar, and Alex Shtoff   | Regular |
| BigD<br>279 | LIVE-ITS: LSH-based Interactive Visualization Explorer for Large-Scale Incomplete Time Series         | Hongjie Chen, Aaron Beachnau, Panos Thomas, Pranav Maneriker, Josh Kimball, and Ryan Rossi   | Regular |
| BigD<br>355 | A Green Learning Approach to Efficient Image Demosaicking   | Mahtab Movahhedrad, Zijing Chen, and C.-C. Jay Kuo   | Regular |
| BigD<br>253 | Aligning the Representation of Knowledge Graph and Large Language Model for Causal Question Answering | Zefan Zeng, Qing Cheng, Xingchen Hu, Zhong Liu, Jingke Shen, and Yahao Zhang   | Regular |
| BigD<br>465 | Visual Lifelog Retrieval through Captioning-Enhanced Interpretation                                   | Yu-Fei Shih, An-Zi Yen, Hen-Hsen Huang, and Hsin-Hsi Chen  | Short   |
|             | <b>D1S8: Big Data Learning and Analytics II</b>   |  |         |
| BigD<br>369 | Automating Data Science Pipelines with Tensor Completion  | Shaan Pakala, Bryce Graw, Dawon Ahn, Tam Dinh, Mehnaz Tabassum Mahin, Vassilis Tsotras, Jia Chen, and Evangelos E. Papalexakis       | Regular |
| BigD<br>415 | MACPNN: Mutual Assisted Learning on Data Streams with Temporal Dependence                             | Federico Giannini and Emanuele Della Valle   | Regular |
| BigD<br>438 | Improving CLIP for Biomedical Retrieval: A Multi-Margin Contrastive Loss Approach                     | Ejan Shakya, Haritha Prasad Rayakota, and Pei-Chi Huang  | Regular |
| BigD<br>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<br>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<br>385 | Leveraging Spatio-Temporal Locality in Linear Model Trees for Multi-Step Time Series Forecasting      | Annunziata D'Aversa, Gianvito Pio, and   | Short   |

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|             |   | Michelangelo Ceci  |         |
| BigD<br>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<br>387 | Fast Second-order Method for Neural Networks under Small Treewidth Setting  | Xiaoyu Li, Jiangxuan Long, Zhao Song, and Tianyu Zhou  | Regular |
|             | <b>D1S9: Big Data Learning and Analytics III</b>  |  |         |
| BigD<br>448 | Accurate Coupled Tensor Factorization with Knowledge Graph  | SeungJoo Lee, Yong-chan Park, and U Kang   | Regular |
| BigD<br>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<br>540 | Attention Based Machine Learning Methods for Data Reduction with Guaranteed Error Bounds  | Xiao Li, Jaemoon Lee, Anand Rangarajan, and Sanjay Ranka   | Regular |
| BigD<br>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<br>366 | LLM4cast: Repurposed LLM for Viral Disease Forecasting  | Farah Saeed, Mohammed Aldosari, Budak Arpinar, and John A. Miller  | Short   |
| BigD<br>431 | FisherMask: Enhancing Neural Network Labeling Efficiency in Image Classification Using Fisher Information                                 | Shreen Gul, Mohamed Elmahallawy, Sanjay Madria, and Ardhendu Tripathy  | Short   |
| BigD<br>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   |
| BigD<br>441 | Perturbation-driven data augmentation for time series anomaly detection improvement in predictive maintenance                             | Hyeyoung Lee, Sangkyun Lee, and Sungjoon Choi  | Short   |
| BigD<br>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   |

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| BigD<br>482 | Negative Sample Enhancement Strategy to Improve Contrastive Learning for Unsupervised Sentence Representation | Hao Li and Chunzhi Xie   | Short   |
| BigD<br>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<br>413 | DataInsight : Big Data Analytics Services   | Helia Hedayati and Saeed Samet   | Short   |
| BigD<br>496 | Federated Learning under Sample Selection Heterogeneity   | Huy Mai and Xintao Wu  | Short   |
| BigD<br>548 | Ternary Logit Distillation via Non-Target Classes Decomposition   | Ninghua Dong, Zhen Liu, Xiang He, and Yiran Li   | Short   |
| BigD<br>402 | SkipSNN: Efficiently Classifying Spike Trains with Event-attention  | Hang Yin, Yao Su, Liping Liu, Thomas Hartvigsen, Xin Dai, and Xiangnan Kong                                      | Short   |
| BigD<br>311 | Deep Learning Service for Efficient Data Distribution Aware Sorting   | Xiaoke Zhu, Qi Zhang, Wei Zhou, and Ling Liu   | Short   |
| BigD<br>393 | CATS: Contrastive learning for Anomaly detection in Time Series   | Joël Roman Ky, Bertrand Mathieu, Abdelkader Lahmadi, and Raouf Boutaba   | Short   |
| BigD<br>541 | Incomplete Multi-kernel k-means Clustering With Fractional-order Embedding                                    | Deheng Xu, Yun Li, Yun-Hao Yuan, Jipeng Qiang, and Yi Zhu  | Regular |
|             | <b>D2S6: Big Data Analytics IV</b>  |  |         |
| BigD<br>557 | A Semi-Supervised Model for Non-Cellular Elements Segmentation in Microscopy Images of Wood                   | Zihao Xu, Peter Nordström, Sina Sheikholeslami, Ahmad Al-Shishtawy, and Vladimir Vlassov                         | Short   |
| BigD<br>870 | Risk Diversification Strategy with Moving Average Reversion for Automatic Portfolio Optimization              | Yuki Hayashi and Atsuyoshi Nakamura  | Regular |
| BigD<br>537 | GAN Stabilization Under Practical Training Assumptions  | Joshua DeOliveira, Walter Gerych, and Elke Rundensteiner   | Regular |
| BigD<br>578 | Edge Grading in Trading Cards Using Transfer Learning: Methods, Experiments, and Evaluation                   | Lutfun Nahar, Md. Saiful Islam, Mohammad Awrangzeb, and Rob Verhoeve   | Short   |
| BigD<br>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   |



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| 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 616 | A Data-Driven Approach for Automated Multi-Site Competitive Facility Location   | Ming Hui Tan, Kar Way Tan, and Hoong Chuin Lau  | Short   |
| BigD 713 | Commercial Space Classification and Prediction with Machine Learning and Multiple Data Sources: A Case Study of Milan | Jiabin Wei  | Short   |
| BigD 724 | DANCE: Deep Learning-Assisted Analysis of Protein Sequences Using Chaos Enhanced Kaleidoscopic Images                 | Taslim Murad, Prakash Chourasia, Sarwan Ali, and Murray Patterson   | Short   |
|          | <b>D1S10: Deep Learning I</b>   |   |         |
| BigD 558 | [Vision Paper] Quality-Aware Experience Exploitation in Model-Based Reinforcement Learning                            | Guang Yang, Jiahe Li, Ziyi Geng, and Changqing Luo  | Regular |
| BigD 559 | A Feedback-based Decision-Making Mechanism for Actor-Critic Deep Reinforcement Learning                               | Guang Yang, Ziyi Geng, Jiahe Li, Yanxiao Zhao, Sherif Abdelwahed, and Changqing Luo                       | Regular |
| BigD 580 | Explingo: Explaining AI Predictions using Large Language Models   | Alexandra Zytek, Sara Pido, Sarah Alnegheimish, Laure Berti-Equille, and Kalyan Veeramachaneni            | Regular |
| BigD 588 | Data-driven Synchronization Protocols for Data-parallel Neural Learning over Streaming Data                           | George Klioumis and Nikos Giatrakos   | Regular |

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

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| BigD<br>753 | Predicting Surface Water Bacteria Levels Using Transfer Learning and Domain Adaptation  | Ali Elahi, David Shumway, Megan Kowalczyk, Abhilasha Shrestha, Nikita Gautam, Doina Caragea, Cornelia Caragea, and Samuel Dorevitch | Regular |
| BigD<br>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<br>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<br>319 | OL4TeX: Adaptive Online Learning for Text Classification under Distribution Shifts  | Min-Seon Kim, Ling Liu, and Hyuk-Yoon Kwon  | Short   |
| BigD<br>250 | Fine-grained Graph-based Anomaly Detection on Vehicle Controller Area Networks  | Isaiah J. King, Benjamin Bowman, and H. Howie Huang   | Short   |
| BigD<br>628 | RYAN: A tool for explaining and visually analyzing the evolution of Relaxed Functional Dependencies   | Loredana Caruccio, Stefano Cirillo, Gianpaolo Iuliano, Giuseppe Polese, and Roberto Stanzione                                       | Short   |
| BigD<br>764 | A Hybrid Model Based on Graph Convolutional Network and Multi-head Transformer for Joint Multiple Intent Detection and Slot Filling                 | Dongsheng Li, Kun Niu, Xiao Chen, and Zhihai Wang   | Regular |
| BigD<br>733 | DynamicFL: Federated Learning with Dynamic Communication Resource Allocation  | Qi Le, Enmao Diao, Xinran Wang, Ahmad Faraz Khan, Vahid Tarokh, Jie Ding, and Ali Anwar   | Regular |
|             | <b>D3S2: Machine Learning Algorithms III</b>  |   |         |
| BigD<br>801 | Pre-Trained Language Models with Topic Attention for Supervised Document Structure Learning   | Dang Pham and Tuan Le   | Regular |
| BigD<br>858 | MADOD: Generalizing OOD Detection to Unseen Domains via G-Invariance Meta-Learning  | Haoliang Wang, Chen Zhao, and Feng Chen   | Regular |
| BigD<br>832 | Real-Time Video Analysis for Accurate Biometric Identity Verification in Mobile Devices   | Sulabh Shrestha, Emanuela Marasco, and Babek Norouzlou  | Regular |
| BigD<br>840 | Tenet: Benchmarking Data Stream Classifiers in Presence of Temporal Dependence  | Giacomo Ziffer, Federico Giannini, and Emanuele Della Valle   | Regular |
| BigD<br>856 | FEED: Fairness-Enhanced Meta-Learning for Domain Generalization   | Kai Jiang, Chen Zhao, Haoliang Wang, and Feng Chen  | Regular |
| BigD<br>817 | 2FWL-SIRGN: A Scalable Structural 2-dimensional Folklore Weisfeiler Lehman Graph Representation Learning Approach Via Structural Graph Partitioning | Justin Carpenter and Edoardo Serra  | Regular |

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| BigD 251 | Personalized Federated Learning by Domain-Aware Network Pruning and Re-growth                               | Yuto Suzuki and Farnoush Banaei-Kashani  | Short   |
| BigD 763 | SEFD: Semantic-Enhanced Framework for Detecting LLM-Generated Text  | Weiqing He, Bojian Hou, Tianqi Shang, Davoud Ataee Tarzanagh, Qi Long, and Li Shen   | Short   |
| BigD 689 | Data Reliability Enhanced Prediction for Recommendation System: A Case Study on Named Entity Recognition    | Prianka Banik, Lin Li, Xishuang Dong, and Lijun Qian   | Short   |
| BigD 702 | Deep Learning for Koopman Operator Estimation in Idealized Atmospheric Dynamics                             | David Millard, Arielle Carr, and Stephane Gaudreault   | Short   |
| BigD 706 | Efficient SGD Neural Network Training via Sublinear Activated Neuron Identification                         | Lianke Qin, Zhao Song, and Yuanyuan Yang   | Short   |
| BigD 219 | Initialization Method for t-Distributed Stochastic Neighbour Embedding (t-SNE)                              | Sara Nassar, Samir Belhaouari, Mebarka Allaoui, and Mohammed Kherfi  | Short   |
|          | <b>D1S13: Big Data Applications I</b>   |  |         |
| BigD 227 | Predicting ChatGPTs Ability to Solve Complex Programming Challenges   | Nguyen Ho, James May, Bao Ngo, Jack Formato, Linh Ngo, Van Long Ho, and Hoang Bui  | Regular |
| BigD 323 | A Confidence-Based Power-Efficient Framework for Sleep Stage Classification on Consumer Wearables           | Hsu-Chao Lai, Po-Hsiang Fang, Yi-Ting Wu, Lo Pang-Yun Ting, and Kun-Ta Chuang  | Regular |
| BigD 352 | Evaluate the Policy Impact of Temporary Suspension of Social Media Account using Synthetic Control Method   | King wa Fu   | Regular |
| BigD 331 | SparrowVQE: Visual Question Explanation for Course Content Understanding                                    | Jialu Li, Manish Thota, Ruslan Gokhman, Radek Holik, and Youshan Zhang   | Regular |
| BigD 340 | Is it Fine to Tune? Evaluating SentenceBERT Fine-tuning for Brazilian Portuguese Text Stream Classification | Bruno Yuiti Leão Imai, Cristiano Mesquita Garcia, Marcio Vinicius Rocha, Alessandro Lameiras Koerich, Alceu de Souza Britto Jr., and Jean Paul Barddal | Regular |
| BigD 334 | Enhancing Financial Reasoning in Large Language Models: The Role of Gold Facts                              | Shoutai Zhu, Ziqiang Yuan, Kaiyuan Wang, Yishu Zhang, and Wenqi Wei  | Regular |
|          | <b>D1S14: Big Data Applications II</b>  |  |         |

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

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| BigD<br>698 | Animal-JEPA: Advancing Animal Behavior Studies Through Joint Embedding Predictive Architecture in Video Analysis   | Chengjie Zheng, Tewodros Mulugeta Dagneu, Liuyue Yang, Wei Ding, Shiqian Shen, Changning Wang, and Ping Chen | Regular |
| BigD<br>597 | susFL: Federated Learning-based Monitoring for Sustainable, Attack-Resistant Smart Farms   | Dian Chen, Paul Yang, Dong Sam Ha, and Jin-Hee Cho   | Regular |
| BigD<br>749 | An Active Learning-Based Streaming Pipeline for Reduced Data Training of Structure Finding Models in Neutron Diffractometry  | Tianle Wang, Jorge Ramirez, Cristina Garcia-Cardona, Thomas Proffen, Shantenu Jha, and Sudip Seal            | Regular |
| BigD<br>769 | Enhancing Cross-Modal Contextual Congruence for Crowdfunding Success using Knowledge Graphs  | Trilok Padhi, Ugur Kursuncu, Yaman Kumar, Valerie L. Shalin, and Lane Peterson Fronczek                      | Regular |
| BigD<br>696 | SE(3) Equivariant Neural Network for 3D Graphs   | Sarp Aykent and Tian Xia   | Regular |
|             | <b>D1S16: Big Data Analytics II</b>  |  |         |
| BigD<br>799 | Efficient Arrhythmia Detection Using Progressive Resolution Shrinking  | Tavonput Luangphasy and Xinghui Zhao   | Regular |
| BigD<br>838 | Context-Specific Feature Augmentation for Improving Social Determinants of Health Extraction   | Lei Gong, Aidong Zhang, Andrey Shor, and Kishlay Jha   | Regular |
| BigD<br>687 | PerSSD: Persistent, Shared, and Scalable Data with Node-Local Storage for Scientific Workflows in Cloud Infrastructure   | Paula Olaya, Sophia Wen, Jay Lofstead, and Michela Taufer  | Regular |
| BigD<br>846 | Understanding Student Sentiment on Mental Health Support in Colleges Using Large Language Models   | Palak Sood, Chengyang He, Divyanshu Gupta, Yue Ning, and Ping Wang   | Regular |
| BigD<br>834 | SO(3) Equivariant Framework for Spatial Networks   | Tian Xia and Sarp Aykent   | Regular |
|             | <b>D1S17: Big Data Analytics III</b>   |  |         |
| BigD<br>406 | Reject Inference as a Noisy Label Detection and Counterfactual Correction Task   | Charalampos Chelmiss, Mahsa Azarshab, Khandker Sadia Rahman, and Mehrdad Mirpourian                          | Short   |
| BigD<br>407 | Multimodal survival prediction using TabTransformer and BioClinicalBERT on MIMIC-III   | Beatrice Insalata, Fabian Schmidt, and Vladimir Vlassov  | Short   |
| BigD<br>477 | T2I-RISE - A Comprehensive Approach with Conversational Context and Feedback Systems for Text-to-Insights with Reinforcement learning, Integration of Semantic layers and Enrichment | Raghu Chandra Katikeri, Sai Phaniraja Maddila, Sai Pratheek, Rajvi Desai Birenbbhai, Amit Vaid,              | Short   |

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|          |  | Neelesh Shukla, and Sandeep Jain   |       |
| BigD 829 | Multimodal Learning on Temporal Data   | Ye Xue, Diego Klabjan, 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 |
| BigD 223 | Prioritizing Potential Wetland Areas via Region-to-Region Knowledge Transfer through Domain Disentanglement and Adaptive Propagation               | Yoonhyuk Choi, Reepal Shah, John Sabo, Huan 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 |
| BigD 501 | YOLOv10 Computer Vision Performance Measurement for Agricultural Vacuum Seed Meters  | Manuel Blaser, Wesley Porter, Luke Fuhrer, and Thirimachos Bourlai   | Short |
| BigD 567 | A Triple Factorization-Based Coupled Latent Factor Analysis Model for Recommender Systems  | Yunchun Xian, Qicong Hu, and Hao Wu  | Short |
| BigD 327 | Data Science and Massive Open Online Courses (MOOCs): Key Feats and Best Practices   | Damian Andrew Tamburri and Willem-Jan van den Heuvel   | Short |

# Industry and Government Program Sessions

| <b>I&amp;G-1: Generative AI</b><br><b>Dec. 16, Monday, 10:30-12:30, Columbia C</b>   |   |
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| 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 Mercurio, and Mario Mezzanzanica  |
| <b>I&amp;G-2: Big data Infra &amp; Multi-modality</b><br><b>Dec. 16, Monday, 14:00-16:00, Columbia C</b>   |   |
| Paper 1 (N239) DIVERSE: A Dataset of YouTube Video Comment Stances with a Data Programming Model (regular)   | Iain 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  |



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| 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  |
| <b>I&amp;G-3: Modeling</b><br><b>Dec. 16, Monday, 14:00-16:00, Concord</b>  |   |
| 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, Nirmal 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 Zefos, 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   |

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| 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 Yukihiro Okada   |
| <b>I&amp;G-4: Business and Energy</b><br><b>Dec. 18, Tuesday, 10:30-12:30, Columbia C</b>  |   |
| 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 |
| <b>I&amp;G-5: Recommender systems</b><br><b>Dec. 18, Wednesday, 10:30-12:30, Columbia A</b>  |   |
| 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                                       |

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| Paper 21 (N213) GRAINRec: Graph and Attention Integrated Approach for Real-Time Session-Based Item Recommendations (regular)           | Bhavtosh Rath, Pushkar Chennu, David Relyea, Prathyusha Kanmanth Reddy, and Amit Pande  |
| Paper 24 (N224) Exploring Query Understanding for Amazon Product Search (short)  | Chen Luo, Xianfeng Tang, Hanqing Lu, Yaochen Xie, Hui Liu, Zhenwei Dai, Llmeng Cui, Ashutosh Joshi, Sreyashi Nag, Yang Li, Zhen Li, Rahul Goutam, Jiliang Tang, Haiyang Zhang, and Qi He            |
| Paper 27 (N259) CryptoPulse: Short-Term Cryptocurrency Forecasting with Dual-Prediction and Cross-Correlated Market Indicators (short) | Amit Kumar and Taoran Ji  |
| Paper 35 (N229) Harnessing the Power of Graph Neural Networks for Personalized Rail Recommendations (short)                            | Bora Edizel, Sri Haindavi Koppuravuri, Mark Gannaway, Pujda Das, and Kamilia Ahmadi   |
| <b>I&amp;G-6: AI4Science</b><br><b>Dec. 18, Wednesday, 10:30-12:30, Columbia B</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, Mitsuki Kawamura, Masato Ohnishi, Norio Takenaka, Kou Nakamura, Daiju Matsumura, Seiji Fujikawa, Hiroki Sakamoto, Yukinori Ochiai, Tetsuo Okane, Shin-Ichiro Kuroki, |

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|   | 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) <i>Content-Aware Deep Learning Recommender System</i>                       | Qixin Wang, Xintao Wu, Kan Yao, and Han Li   |

# PhD Forum

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| <b>PhD Forum: Poster Session</b><br><b>Dec. 17, Tuesday, 10:00-10:30, Regency Foyer Columbia Foyer</b>  |  |
| <b>PhD Forum: Paper Session I</b><br><b>Dec. 17, Tuesday, 10:30-11:30, Concord</b>  |  |
| 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   |
| <b>PhD Forum: Panel</b><br><b>Dec. 17, Tuesday, 11:30-12:30, Concord</b>  |  |
| <b>PhD Forum: Paper Session II</b><br><b>Dec. 17, Tuesday, 14:00-16:00, Concord</b>   |  |
| 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   |

| <b>PhD Forum: Poster Session</b><br><b>Dec. 17, Tuesday, 16:00-16:30, Regency Foyer Columbia Foyer</b> |  |
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| <b>PhD Forum: Paper Session II</b><br><b>Dec. 17, Tuesday, 16:30-17:30, Concord</b>                    |  |
| SP13205: Leveraging Big Data Technologies for Practical Radio Frequency Fingerprinting Applications    | Stefan Kunze and Wolfgang Dörner                                     |
| 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)<br><b>Website:</b> ...  | 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  | Dec 15, Morning   | Chair: Jinli Zhang              |
| <b>Combined Workshops:</b> #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) | Dec 15, Morning   | Chairs: Xuan Wang & Fahad Saeed |
| Workshop #25: IEEE Workshop on Big Data Analytics for Medical Imaging  | Dec 15, Morning   | Chair: Carmen Bisogni           |
| Workshop #35: The IEEE International Workshop on Large Language Models for Finance   | Dec 15, Morning   | Chair: Quanzhi Li               |
| Workshop #40: Workshop on Handling Resource constraints for/using Bigdata and AI   | Dec 15, Morning   | Chair: Manikandan Ravikiran     |
| Workshop #45: 2nd International Workshop on Dataspaces and Digital Twins for Critical Entities and Smart Urban Communities (DSpaCES)   | Dec 15, Morning   | Chair: Marco Zappatore          |
| Workshop #49: The 8th IEEE International Workshop on Big Spatial Data (BSD 2024)   | Dec 15, Morning   | Chair: Ashwin Shashidharan      |
| Workshop #22: 1st Workshop on Robust Machine Learning for Distribution Shifts  | Dec 15, Afternoon | Chair: Chen Zhao                |
| Workshop #26: 8th International Workshop on Big Data Analytics for Cyber Intelligence and Defense (BDA4CID 2024)   | Dec 15, Whole Day | Chair: Stephen McGough          |
| Workshop: #31: International workshop on Scalable and Deep Graph Learning and Mining   | Dec 15, Whole Day | Wissem Inoubli                  |

| Dec. 16, Monday  |                   |  |
|--|-------------------|--|
| Workshop #16: 12th International Workshop on Distributed Storage and Blockchain Technologies for Big Data  | Dec 16, Morning   | Chair: Hong Tan  |
| Workshop #41: Fourth International Workshop on Data science for equality, inclusion and well-being challenges (DS4EIW 2024)  | 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  | Dec 16, Morning   | Chair: Keisuke Nakamura  |
| Workshop #27: 3rd International Workshop on Big Data Analytics for Health and Medicine (BDA4HM 2024)   | Dec 16, Whole Day | Chair: Stephen McGough   |
| <b>Combined Workshops:</b> #30 AI-Powered Renewable Energy Forecasting: Techniques and Challenges (AIPREF) & #32: AI-driven Agriculture: Opportunities and Challenges & #33: Cultural Heritage & BigData: Opportunities and Challenges | 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   | Dec 17, Morning   | Chair: Wutao Wei   |
| Workshop #29: Trustworthy Machine Learning for Healthcare  | Dec 17, Morning   | Chair: Xiao Shou   |
| Workshop #28: 4th International Workshop on Big Data Analytics for Sustainability (BDA4S 2024)   | Dec 17, Whole Day | Chair: Stephen McGough   |

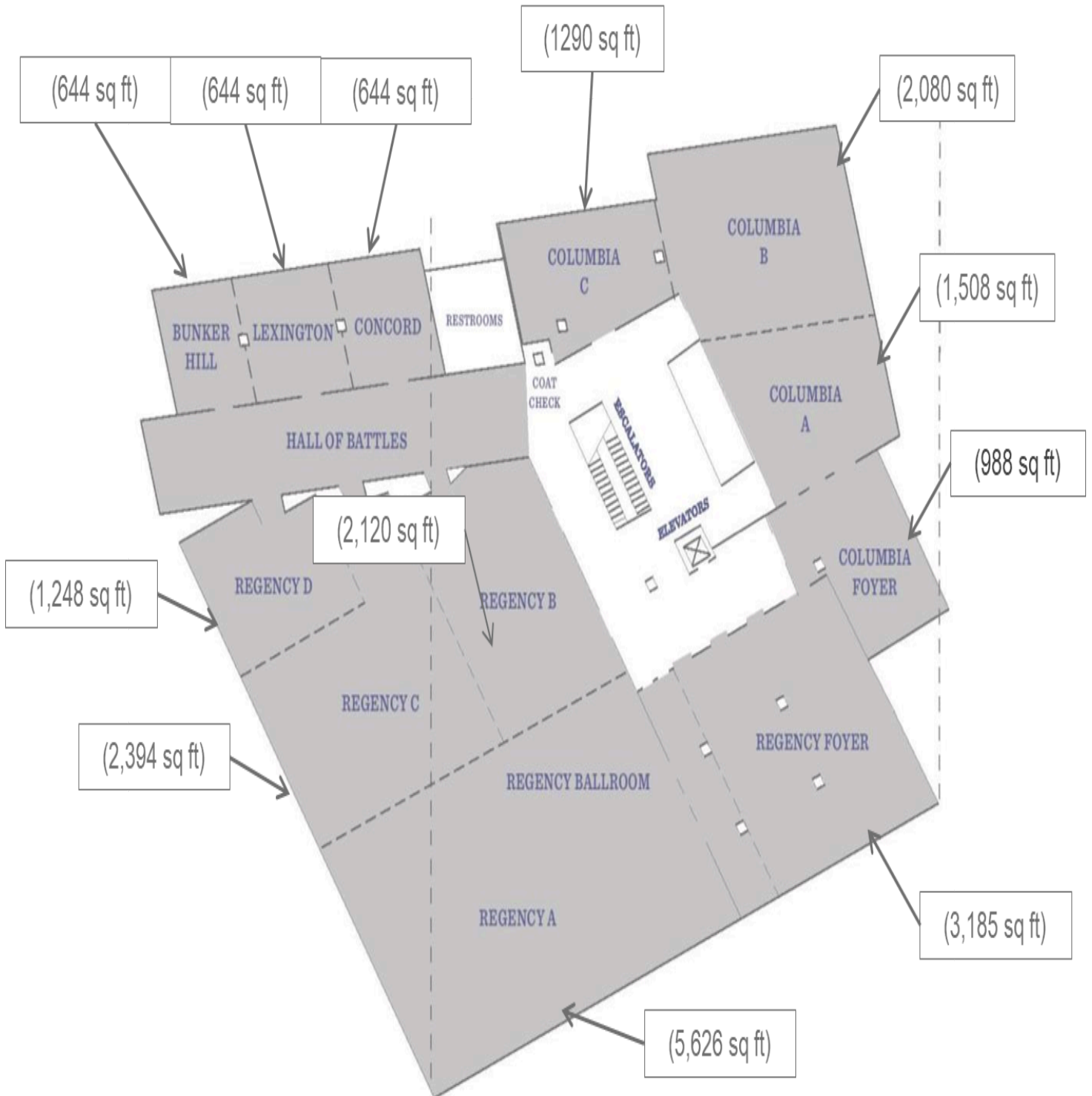


# Online Challenge Cup Sessions

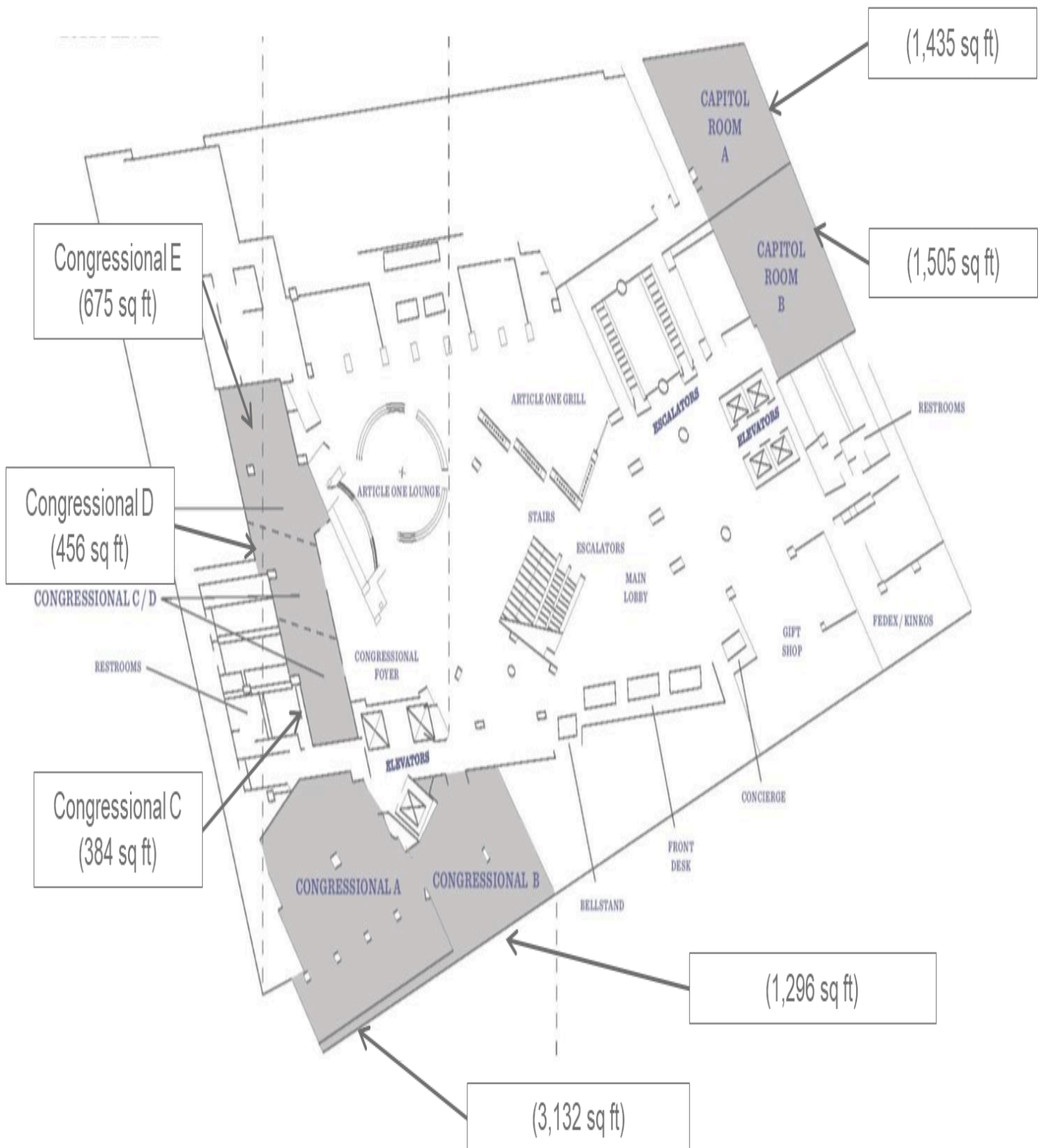
| Dec. 15, Sunday   |                    |   |
|---|--------------------|---|
| Challenge Cup #5: Suicide ideation detection on social media<br>Website: <a href="https://competitionpolyu.github.io/">https://competitionpolyu.github.io/</a>  | Dec. 15, Morning   | Chair: Jun Li<br><a href="mailto:21118786r@connect.polyu.hk">21118786r@connect.polyu.hk</a>         |
| Challenge Cup #4: Characterizing User Behavior in Social Networks: Propagation, Prediction, and Sensemaking<br>Website: <a href="https://social-network-competition-gxqpe2ab8eh9atpe6hneu3.streamlit.app/">https://social-network-competition-gxqpe2ab8eh9atpe6hneu3.streamlit.app/</a> | Dec. 15, Afternoon | Chair: Qingyun Sun<br><a href="mailto:sunqy@buaa.edu.cn">sunqy@buaa.edu.cn</a>                      |
| Dec. 16, Monday   |                    |   |
| Challenge Cup #3: Building Extraction Generalization Challenge 2024<br>Website: <a href="https://www.kaggle.com/competitions/building-extraction-generalization-2024">https://www.kaggle.com/competitions/building-extraction-generalization-2024</a>                                   | Dec. 16, Morning   | Chair: Shenglong Chen<br><a href="mailto:chen-sl@csis.u-tokyo.ac.jp">chen-sl@csis.u-tokyo.ac.jp</a> |
| Dec. 17, Tuesday  |                    |   |
| Challenge Cup #2: Optimized Road Damage Detection Challenge (ORDDC'2024)<br>Website: <a href="https://orddc2024.sekilab.global/">https://orddc2024.sekilab.global/</a>  | Dec. 17 Whole Day  | Chair: Deeksha Arya<br><a href="mailto:deeksha.arya1211@gmail.com">deeksha.arya1211@gmail.com</a>   |
| Challenge Cup #6: Challenges of Trustworthy AI in Distribution Shifts and Algorithmic Fairness<br>Website: <a href="https://bigdatacup-e2j7tqwypbrkm8zsmqstmm.streamlit.app/">https://bigdatacup-e2j7tqwypbrkm8zsmqstmm.streamlit.app/</a>  | Dec. 17, Morning   | Chair: Minglai Shao<br><a href="mailto:shaoml@tju.edu.cn">shaoml@tju.edu.cn</a>                     |

# Hotel Floor Layout

## Ballroom Level



# Lobby Level



## 2nd Floor Conference

