

2026 IEEE International Conference on AI and Data Analytics
 Technical Paper Oral Presentation Schedule



Day #1: Thursday, June 11, 2026
FULTON HALL - ROOM 115
 10:30AM to 12:30PM, 2:30PM to 3:30PM
 Track Chair: Baris Kazar



EST TIME	PAPER TITLE	PRESENTERS
10:30AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 35 Synthetic Data for Training & Evaluation in Financial Fraud Detection: A SMOTE-Powered KAN-XGBoost Framework with SHAP Interpretability	Rajesh Lingam* (Independent Researcher)
10:45AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 180 Optimizing Lexicon Design for Micro-Resource Code-Mixed Disfluent Speech Recognition	Anuran Mitra, Tapabrata Mondal, Sivaji Bandyopadhyay* (Jadavpur University)
11:00AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 74 Hidden Stylistic Schools of Pre-Islamic Poetry	Salem Othman*, Youssef Qranfal (Wentworth Institute of Technology)
11:15AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 5 Using Deep Learning and Bayesian Optimization for Construction of Optical Coatings for PV Applications	Nishikant Sonwalkar*, Siddha Karjee (AdaptiveWaves Inc.)
11:30AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 93 Predicting St. Louis Housing Prices with Machine Learning on Market and Assessor Data	Brian Adler* (University of Missouri-St. Louis); Anne Brown (Washington University in St. Louis)
11:45AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 132 On the Geometric Limits of Transformer Defenses against Obfuscation Attacks: Latent Embedding Collapse & Performance–Robustness Gap	Becky Mashaido, Tapadhir Das* (University of the Pacific)
12:00PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 144 Self-Evolving AI Systems: Stability–Plasticity Trade-Offs and Regret-Aware Learning in Deployed Machine Learning	Raj Kumar Myakala* (CVS Health); Vinithya Reddy Podduturi (World Bank); Akhil Reddy Jagirapu (University of North Texas)
12:15PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 157 Multi-modal Causal Reasoning from Sparse Image Datasets: A Synthesis and Discovery Framework	Atul Rawal* (Towson University); Adrienne Raglin (DEVCOM Army Research Lab)
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Nikunj Doshi)	
2:30PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 209 Quantum-Hybrid Deep Learning Ensemble for Credit Card Fraud Detection	Tanay Patel*, Glen Uehara, Andreas Spanias (Arizona State University); Todd Hodges, Sutapa Samanta, Dagen Wang, Andras Ferenczi (American Express Co.)
2:45PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 210 When Does Quantum Computing Provide Advantage for Malware Detection? Structural Complexity and the Intermediate Complexity Window	Nicholas Carducci* (Monmouth University)
3:00PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 251 Short-form Text Rewriting with Phi Silica	Divya Tadimetri*, Shawn Pan, Sameera Lanka, Chenghui Zhou, Sadid Hasan (Microsoft)
3:15PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 228 Operational Hallucination and Safety Drift in AI Agents	Shasha Yu*, Fiona Carroll, Barry L. Bentley (Cardiff Metropolitan University)

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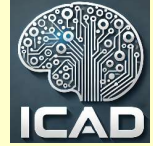


Day #1: Thursday, June 11, 2026

FULTON HALL - ROOM 117

10:30AM to 12:30PM Track Co-Chairs: Joseph Campbell and Bruce Jia

2:30PM to 3:30PM Track Chair: Bruce Jia



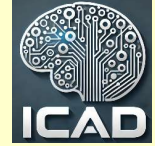
EST TIME	PAPER TITLE	PRESENTERS
10:30AM	Track 4: Responsible AI, Safety & Governance Paper ID: 143 A Unified MLOps Architecture for Reliable Deployment of Generative AI Systems	Vasanth Rao Jadav* (EPAM Systems); Shravya Bussari (HCL Tech)
10:45AM		
11:00AM		
11:15AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 38 TraceX: Central Finite-Difference Explainability for AI-Based Financial Credit Evaluation	Memoona Aziz, Muhammad Umair Danish*, Katarina Grolinger, Umair Rehman (Western University Ontario)
11:30AM	Track 4: Responsible AI, Safety & Governance Paper ID: 113 From Belief to Behavior: Modeling and Tracking Moral Alignment in Autonomous Agents	Soraya Partow*, Satyaki Nan (Georgia Southwestern State University)
11:45AM	Track 4: Responsible AI, Safety & Governance Paper ID: 127 Mitigating Risks in Agents and Robots	Mark Maybury* (Lockheed Martin)
12:00PM	Track 4: Responsible AI, Safety & Governance Paper ID: 130 Privacy Awareness in Large Language Models: Input Regurgitation and Prompt-Induced Sanitization for HIPAA and GDPR Compliance	Aravinda Jatavallabha*, Venkatesha Matam, Vidisha Vijay (Independent Researcher)
12:15PM	Track 4: Responsible AI, Safety & Governance Paper ID: 136 Beyond Artificial Certainty: Synthetic Socratic Inquiry for Trust Calibration in AI-Augmented Higher Education	Zomana Majid*, Wasim Chaudhuri (ReliSource Inc.); Vijay Kanabar (Boston University)
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Nikunj Doshi)	
2:30PM	Track 4: Responsible AI, Safety & Governance Paper ID: 138 From Scripts to Prompts: How Large Language Models Are Transforming Penetration Testing	Eman Alatawi, Umar Albalawi* (University of Tabuk)
2:45PM	Track 4: Responsible AI, Safety & Governance Paper ID: 155 Augmenting Large Language Models with Causal Risk Patterns for AI Deployment Risk Assessment	Gareth Mcconomy* (Ulster University)
3:00PM	Track 4: Responsible AI, Safety & Governance Paper ID: 165 VAST-Blockchain: Hybrid Ledger Anchoring for Verifiable Governance and Auditability of Aligned AI	Soraya Partow)*, Satyaki Nan (Georgia Southwestern State University)
3:15PM		

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Day #1: Thursday, June 11, 2026
FULTON HALL - ROOM 135
 10:30AM to 12:30PM Track Chair: Pulkit Jain
 2:30PM to 3:30PM Track Chair: Soheli Farhana



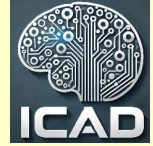
EST TIME	PAPER TITLE	PRESENTERS
10:30AM		
10:45AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 125 Adaptive CTGAN: Data Augmentation for Imbalanced Cybersecurity Datasets	Devcharan Krishna Naik, Yuchou Chang*, Ashokkumar Patel (University of Massachusetts Dartmouth)
11:00AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 46 An Explainable Machine Learning Approach of Detecting Denial of Service Attacks in 5G Networks	João Victor Jales Ramos, Matheus Vilarim P. dos Santos, Fernando Luiz F. Barros, Edmar C. Gurjão (Federal University of Campina Grande); Paola Pimentel Furlanetto* (Independent Researcher)
11:15AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 69 Reservoir Computing Based Anomaly Detection in Industrial Control Systems	Andre Slonopas* (APUS); Edward Olbrych (Virginia Polytechnic Institute and State University); Michael Corley (Army National Guard); Jacob Strahan (Huntington Ingalls Industries)
11:30AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 139 MRI-AgentNet: A Vision Language Models-Based Multi-Agent AI System for Solving Inverse Problems in MRI	Gulfam Ahmed Saju, Marjan Akhi, Yuchou Chang* (University of Massachusetts Dartmouth)
11:45AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 140 Quantization and its Effects about Reinforcement Learning on Quantum Neural Network Wrapped in Classical Encoder	Jacob Fronzaglia, Yuchou Chang* (University of Massachusetts Dartmouth); Christopher Hixenbaugh (Naval Undersea Warfare Center Division Newport)
12:00PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 148 Multi-Dimensional Evaluation Framework for Generative AI Applications with Dynamic Data Sources	Vishwanath Pattar*, Vishnuram Venkataswamy Sampathkumar, Lohith Reddy Kalluru (Hewlett Packard Enterprise)
12:15PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 171 Multiplier-Free LLM Linear Layers via Weights-Only Power-of-Two QAT	Ikteder Akhand Uday*, Omiya Hassan (Boise State University)
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Nikunj Doshi)	
2:30PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 72 Historical Project and Dependent Task Status Verification-Aware Integration of DEVOPS with AI Using QF-MT	Vineeth Billa Kanti*, Likitha Guthikonda (Independent Researcher)
2:45PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 181 DeepDetect: Learning All-in-One Dense Keypoints	Shaharyar Ahmed Khan Tareen*, Xiaojing Yuan (University of Houston); Filza Khan Tareen (National University of Sciences and Technology)
3:00PM		
3:15PM		

ROOM 135

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Day #2: Friday, June 12, 2026
FULTON HALL - ROOM 115
 10:30AM to 12:30PM, 3:45PM to 4:45PM
 Track Chair: Baris Kazar



EST TIME	PAPER TITLE	PRESENTERS
10:30AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 189 Validation-Conditioned Dynamic Ensemble Regression with Applications in Biomedical Data	Brandon Warner*, Edward Ratner, Elliot Farmer Garcia (Verseon International Corp.)
10:45AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 194 Can Physics-Informed Neural Networks Learn Regulatory Compliance Bounds? Isolating Calibration Drift in Smart Heat Meters	Gideon Mbiyzenyuy* (University of Borås); Fimon Yacob (Ekkono Solutions); Saleh Javadi (Blekinge Institute of Technology)
11:00AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 198 ULAF: Learnable Geometry Activation for Deep Neural Networks	Saikatesh Dash* (TEKsystems Inc.); Sradhanjali Paty (Intone Networks Inc.); Elif Kongar (University of New Haven)
11:15AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 201 Topological Data Analysis Integrated with Deep Sequence Models for Multivariate Time Series-based Solar Flare Prediction	Syed Abrab Mahmood*; Ruizhe Ma (University of Massachusetts Lowell)
11:30AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 204 Automated Highlight Generation using Deep Learning in Soccer Matches	Jenish Kothari*, Yash Phalle (Northeastern University)
11:45AM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 227 Spectral Learning for Crack and Corrosion Risk Prediction	Insha Yaqoob Sheikh*; Sarangapani Jagannathan (Missouri University of Science and Technology)
12:00PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 246 Exploring the Impact of Dataset Statistical Effect Size on Model Performance and Data Sample Size Sufficiency	Arya Hatamian (University of California, Riverside); Lionel Levine, Haniyeh Ehsani Oskouie*, Majid Sarrafzadeh (UCLA)
12:15PM		
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Pulkit Jain)	
3:45PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 249 Uncertainty-Aware Forecasting with Shifting Seasonal Matrix Factorization	Jacob Munson*, Breschine Cummins (Montana State University)
4:00PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 202 Modular Deep Learning for Multivariate Time-Series: Decoupling Imputation and Downstream Tasks	Joseph Arul Raj*, Zina Ibrahim, Linglong Qian (Kings College London)
4:15PM	Track 1: Foundation of AI, Data Science & Analytics Paper ID: 218 Generation of Synthetic Samples by Large Language Models in the Context of Cross-Country Surveys	Elizaveta Kuznechenkova, Maria Nesterskaya*, Vera Semyonova (Higher School of Economics)
4:30PM		

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Day #2: Friday, June 12, 2026

FULTON HALL - ROOM 117

10:30AM to 12:30PM Track Co-Chair: Shankar Krishnan and Bruce Jia

3:45PM to 4:45PM Track Chair: Bruce Jia



EST TIME	PAPER TITLE	PRESENTERS
10:30AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 128 Privacy-Preserving Federated AI on Blockchain for Secure and Compliant Banking Data Management	Vineeth Lakkadi*, Praneetha Reddy Donthi, Sravani Kandula, Munish Kumar (University of the Cumberland)
10:45AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 145 HAGS: A Hand and Glove Segmentation Dataset for Collaborative Assembly	Shivansh Sharma, Mathew Huang, Sanat Nair, Alan Wen, Christina Petlowany (The University of Texas at Austin)
11:00AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 215 Integrating Graph Neural Networks and Large Language Models for Climate Policy Shock Contagion in Bank Lending Networks	Rohit Nimmala (Bank of America); Pavan Nutalapati, Jagrut Nimmala, Milan Parikh, SIVA RAMA KRISHNA varma Bayyavarapu*, Tejas Patel (Independent researcher)
11:15AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 150 Forecast to Replenishment: Interpretable Machine Learning for Retail Inventory Optimization	Marsa Rayani*, Samarasimha Donthireddy, Alireza Izaddoost, Benjamin Ahmadnia (California State University DH)
11:30AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 151 A Systems Engineering Driven Framework for Integrating Large Language Models into Clinical Documentation to Increase Efficiency	Anoushka Vijay (Notre Dame); Jyotirmay Gadewadikar* (Mitre)
11:45AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 166 Adoption of Safe and Responsible AI for Streamlining Communication with Verbally Impaired Communities	Mahendra Samarawickrama* (Meta61)
12:00PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 170 Applied Machine Learning for Clinical Risk Assessment of Obstructive Sleep Apnea Using Electronic Health Records	Manoj Purohit*, Praveen Madiraju (Marquette University); Octavian Ioachimescu (Department of Medicine Medical College of Wisconsin)
12:15PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 219 Diversity Under Domain Conditioning: Comparing SimSon and CONSMI for QAC Generation	Shahana Shultana, Shiva Ghaemi, Farzad Ahmed, Amarda Shehu, Daniel Barbara* (George Mason University)
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Pulkit Jain)	
3:45PM	Track 4: Responsible AI, Safety & Governance Paper ID: 247 Machine Learning-based Prediction of Ciprofloxacin Resistance in Escherichia coli Using Antimicrobial Susceptibility Testing Metadata	Huanran Yu* (Jordan HS)
4:00PM	Track 4: Responsible AI, Safety & Governance Paper ID: 248 Benchmarking Hybrid Deep Learning Architectures for Predictive Maintenance in Industry 4.0	Zhengyang Gu*, Joseph Hernandez, Thomas Cook, John Burtenshaw, Sean Scott, Chris Couch (Liveline Technologies)
4:15PM	Track 4: Responsible AI, Safety & Governance Paper ID: 234 On The Limits of Predicting Sex-Offense Escalation from Criminal Histories	Suli Adeniye*, Dominique Roe-Sepowitz, Arunabha Sen (Arizona State University)
4:30PM		

ROOM 117

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Day #2: Friday, June 12, 2026
FULTON HALL - ROOM 135
 10:30AM to 12:30PM Track Chair: Nikunj Doshi
 3:45PM to 4:45PM Track Chair: Soheli Farhana



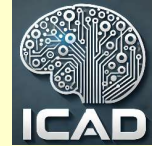
EST TIME	PAPER TITLE	PRESENTERS
10:30AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 160 Shazam4Code: An explainable method for detecting derivative clones for ensuring code provenance	Jamie Heller*, Samuel Guyer (Tufts University, Veracode Inc.)
10:45AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 212 Manual Elasticity Models to Scalable Pricing Intelligence: An Industry Case Study	Girish Vasudevan* (Vanguard)
11:00AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 163 Applied AI-Enhanced RF Interference Rejection	Rahul Jain*, Pierre Trepagnier, Rick Gentile, Joey Botero, Alexia Schulz (MIT Lincoln Laboratory)
11:15AM	Track 3: Frontiers in AI and Data Analytics Paper ID: 217 Interpretable Transfer Learning for Classifying Exoplanet Atmospheric Stability	Beneyaz Begum*, Ramses Ramirez (University of Central Florida)
11:30AM	Track 4: Responsible AI, Safety & Governance Paper ID: 238 Operationalization of Machine Learning with Serverless Architecture: An Industrial Implementation for Harmonized System Code Prediction	Sai Vineeth Kandappa Reddi gari*, Santhoshkumar Jagadish (Schneider Electric Global)
11:45AM	Track 4: Responsible AI, Safety & Governance Paper ID: 206 Coordinate-Driven Random Forests – A Transferable Approach for Graph Data	Hansi Kalpana Yasodara Paththini Hetti Arachchige*, Anura Jayasumana (Colorado State University)
12:00PM	Track 4: Responsible AI, Safety & Governance Paper ID: 211 Diagnosing and Mitigating Privacy Risks in Natural Language Interfaces for Sensitive Databases	Suli Adeniye*, Dominique Roe-Sepowitz, Arunabha Sen (Arizona State University)
12:15PM	Track 4: Responsible AI, Safety & Governance Paper ID: 233 The Efficacy of ChatGPT Model GPT-3.5 in Rewriting Bias out of Text while Retaining User Engagement	Aarav Daftary* (Cambridge Center for International Research)
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Pulkit Jain)	
3:45PM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 205 Bytes to Threats: Byte-Sequence Transformer For Malware Detection	Abdelrahman Eljamal*, Abdeltawab Hendawi (University of Rhode Island)
4:00PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 197 Nibras: A Non-Invasive EEG Brain-Computer Interface for Assistive Communication in Non-Verbal Individuals	Ahmed Ibrahim*, Tareq Ghazi, Anas Hourri, ElMoatez Billah Nagoudi (Prince Sultan University)
4:15PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 224 Structured Skill Taxonomies vs. Large Language Models: A Comparative Study of Curriculum-Level Skill Inference	Yash Pankhania*, Nicholas Brown (Northeastern University)
4:30PM	Track 3: Frontiers in AI and Data Analytics Paper ID: 226 Evaluating Large Language Models as Symbolic Music Theory Assessors: A Multi-Metric Approach	Chauncey Barnes, Kiana Katouzian, Ahmad Patooghy* (North Carolina A&T State University)

ROOM 135

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Day #2: Friday, June 12, 2026
FULTON HALL - ROOM 145
 11:30AM to 12:30PM, 3:45PM to 4:45PM
 Track Chair: Lokanatha Reddy Gandikota



EST TIME	PAPER TITLE	PRESENTERS
10:30AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 177 AI Companions for E-commerce: Proactive Customer Question Resolution	Lokanatha Reddy Gandikota*, Satya Tulasi Ram Konda (Verizon); Venkata Raghavendra Swamy Gudipati (Remington University); Sudheer Kumar Aluvala (HCL Tech); Sateeshkumar Ponugoti (Publicis Groupe)
10:45AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 179 Lightweight and Maintainable Approach for Table Detection	Varsha Venkataraman*; Lei Shi (Newcastle University)
11:00AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 190 RAG-Enhanced Explainable AI for Regulatory-Compliant Credit Risk Assessment	Aman Goyal (CMU); Jothsna Praveena Pendyala* (Clark University); Jyoti Sondager, Shaozhi Jiang (Independent Researcher); Prerak Manish Shah (Northeastern University)
11:15AM	Track 2: Applied AI & Analytics in Industry and Enterprise Paper ID: 199 Credit Card Fraud Detection Using Machine Learning	Fahd AlHaidari* (Salem State university); Dania Alkhulaifi, Wafa Hantom (Imam Abdulrahman Bin Faisal University); Ali Bazarah (Stonehill College); Jamal Alhiyafi (Kettering University)
11:30AM	Track 4: Responsible AI, Safety & Governance Paper ID: 222 SearchAny: Agentic Federated Natural Language Analytics over Heterogeneous Enterprise Data Lakes via Self-Driven Exploration and Reflexive Orchestration	Jagadish Krishna Pilla* (Independent Researcher)
11:45AM	Track 4: Responsible AI, Safety & Governance Paper ID: 223 Algorithmic evidence and fair trial rights in EU Criminal Justice	Eleni Papargyri* (European University of Cyprus); Lamprini Papargyri (Stanford University)
12:00PM	Track 4: Responsible AI, Safety & Governance Paper ID: 240 Keystroke-Free Reformulation: Design and Evaluation of Micro-Rewrite Widgets for Mobile Search	VENKATA Raghavendra Swamy Gudipati* (Remington College); Lokanatha Reddy Gandikota (Verizon Wireless)
12:15PM		
12:30PM	Lunch Break and Poster Sessions (Poster Co-Chairs: Narayanan Murugan and Pulkit Jain)	
3:45PM		
4:00PM		
4:15PM		
4:30PM		

ROOM 145