IEEE IRI 2025 Program (version: July 18, 2025)

		nesday (Aug 6)		ursday (Aug 7)		riday (Aug 8)	
	Student Volunteers:		Student Volunteers:		Student Volunteers:		
8:20 9:30	Opening & Keynote 1		Awards & Keynote 3		Keynote 5		
9:30							
9:45	Coffee Break						
9:45 11:30	A1 Milpitas room AI in Software Engineering	A2 Fremont/Cupertino room AI Applications in Weather	Tutorial by: Title: Decentra Delivery of F	5 – 10:45 Balaji Palanisamy alized Protection and Private Information nart Contracts	G1 Milpitas room Al for Society	G2 Fremont/Cuper. room DL applications	
	and Coding Chair:	Prediction Chair:	D1 Milpitas	D2 Fremont/Cupertino	Chair:	Chair:	
	Onan.		Al in Health	Federated Learning			
			Chair:	Chair:			
11:30 13:00			Lunch	Break			
13:00 14:00	Keynote 2		Keynote 4		Ke	Keynote 6	
14:00 14:15	Break						
14:15 16:00	B1 Milpitas room	B2 Fremont/Cupertino	E1 Milpitas room	E2 Fremont/Cupertino	H1 Milpitas room		
	Large Language Models Chair:	AI for Science and Education Chair:	Computer Vision Chair:	Security Chair:	NLP and Al- assistants Chair:		
16:00 16:15		,	Bre	ak			
16:15 18:00	C1 Milpitas	C2 Fremont/Cupertino	F1 EMERITE Workshop	F2 Fremont/Cupertino AIHC			
	eXplainable Al	Al for Smart Cities and Environment	Chair:	Workshop			
	Chair:	Chair:	Min-Yuh Day	Chair: Lydia Bouzar- Benlabiod			
19:00 21:00			E	Banquet			

IEEE IRI Conference Day 1: Wednesday, August 7, 2024

8:20-9:30	Welcome, Conference Opening Remarks (Congrel Chairs, P.C. Chairs)
	(General Chairs, PC Chairs)
	Keynote 1:
	Session Chair:
9:30 - 9:45	Coffee Break
9:45-11:30	Session A
	Session A1
	Al in Software Engineering and Coding
	Session Chair:
IRI-47 (15 min)	Leveraging LLMs for Automatic Feature Extraction in Embedded Systems to Support
	Software Reuse
	A A Talha Talukder (Trent University), Omar Alam (Trent University), and Akramul Azim (Ontario
IRI-87 (15 min)	Tech University) A Meta-Learning Approach to Generating Functional Descriptions of Graphical User Interfaces
IKI-07 (13 IIIIII)	Naga Mamata Iluru (University of Cincinnati), Nan Niu (University of Cincinnati), Yitong Yang
	(Shanghai University of Finance and Economics), and Yinglin Wang (Shanghai University of Finance
	and Economics)
IRI-34 (15 min)	GRFuzz: A Deep Reinforcement Learning Approach to Python Library Fuzzing with GRPO
	Viet-Anh Le-Minh (Hanoi University of Science and Technology), Hai-Anh Tran (Hanoi University of Science and Technology), Huy-Hieu Nguyen (Hanoi University of Civil
	Engineering), Nam-Thang Hoang (Hanoi University of Civil Engineering), and Truong Tran (The
	Pennsylvania State University)
IRI-28 (15 min)	Change Impact Analysis using Machine Learning: A Systematic Literature Review
	Sandeep Reddivari (University of North Florida) and Shree Raksha Arsikere Pattabhi Ramu
IDI 70/45 :)	(University of North Florida)
IRI-76(15min)	Evaluation of a Conceptual Framework for the Resilience of Unit Test Suites to Refactoring Daniel Knight (Mississippi State University) and Tanmay Bhowmik (Mississippi State University)
	Daniel Knight (Mississippi State University) and Tanhay Bhownik (Mississippi State University)
IRI-65 (15 min)	MalCodeAI: Autonomous Vulnerability Detection and Remediation via Language Agnostic
	Code Reasoning
	Jugal Gajjar (George Washington University), Kamalasankari Subramaniakuppusamy (George Washington University), and Noha El Kachach (George Washington University)
	Session A2
	Al Applications in Weather Prediction
	Session Chair:
IRI-23 (15 min)	STCN-Ozone: A Graph-Based Spatiotemporal Forecasting Framework for Modeling Tropospheric Ozone
	Chaian Khan (University of Missouri-Kansas City), Mohammadreza Akbari Lor (University of
	Missouri-Kansas City), Shu-Ching Chen (University of Missouri-Kansas City), Mei-Ling Shyu
	(University of Missouri-Kansas City), and Amy Christiansen (University of Missouri-Kansas City)
IRI-80 (15min)	An AI-based Methodology for Digitizing Historical Tabular Data with High Accuracy

IRI-63 (15 min)	Online Projected Gradient Descent for Grid Regulated Power Point Tracking Under Highly Fluctuating Weather and Load
IRI-67 (15 min)	Evaluating Multi-Weather Impacts on the U.S. Power Grid Reliability Sangkeun Lee (Oak Ridge National Laboratory), Supriya Chinthavali (Oak Ridge National Laboratory), Narayan Bhusal (Oak Ridge National Laboratory), Viswadeep Lebakula (Oak Ridge National Laboratory), Jacob Morris (Oak Ridge National Laboratory), and Giri Iyer (Oak Ridge National Laboratory)
IRI-75 (15 min)	HexWeather: Hexagonal Spatial Data Aggregation for Weather-Driven Grid Resilience Analysis Jacob Morris (Oak Ridge National Laboratory), Sangkeun Lee (Oak Ridge National Laboratory), Narayan Bhusal (Oak Ridge National Laboratory), Nasir Ahmad (Oak Ridge National Laboratory), Supriya Chinthavali (Oak Ridge National Laboratory), and Giri Iyer (Oak Ridge National Laboratory)
11:30-13:00	Lunch break
13:00-14:00	Keynote 2:
	Session Chair:
14:00 - 14:15	Break
14:15 – 16:00	Session B
	Session B1
	Large Language Models
	Session Chair:
IRI-89 (15 min)	LLM-Rank: An Unsupervised Keyword Extraction Method Using Local Large Language Models Xiaoke Jia (Auburn University), Chad Roller (University of Oklahoma), and Chenggang Wang (University of Oklahoma).
IRI-99 (15 min)	The AI Imitation Game: A Cognitive Comparison of Mimicry in Large Language Models Victor Wen (University of Montana), Zedong Peng (University of Montana), and Yusi Chen (University of Montana)
IRI-69 (10 min)	Benchmarking Fine-Tuning Strategies for LLaMA: A Multi-Dimensional Evaluation for National Security Contexts
	Devon Brown (Howard University), Rawat Danda (Howard University), Melissa LaDuke (National
	Intelligence University), and Brian Lanigan (United States Coast Guard) Session B2
	Al for Science and Education
	Session Chaire
IRI-35 (15 min)	Session Chair: Accelerating Drug Discovery with Deep Reinforcement Learning: Molecular Generation Using Deep Q-Network
	Esmaeil Shakeri (University of Calgary) and Behrouz Far (University of Calgary)
IRI-9 (15min)	Course Recommender System Using Hybrid Machine Learning for Higher Education Shrooq Algarni (University of Idaho) and Frederick Sheldon (University of Idaho)
IRI-44 (15 min)	Automatic Scientific Discoveries Using a Public Collection of Characterized Semantic
	Predications
	Nicola Raffaele Di Matteo (Dalhousie University)

IRI-98 (15 min)	Information Integration in Social Science Research: Advances with LLMs in the NAIP Project
16:00-16:15	Coffee Break
16:15 – 18:00	Session C
	Session C1
	eXplainable AI
	Session Chair:
IRI-21 (15 min)	An Explainable AI Framework for Wire Crimping Specification Prediction and Toolset Family Identification
	Lige Gan (Oakland University), Xiao Yue (Oakland University), Bryan Sandoval (Yazaki North America, Inc.), Michael Boyd (Yazaki North America, Inc.), and Guangzhi Qu (Oakland University)
IRI-86 (15 min)	Early Detection of Alzheimer's Using MRIs and Explainable 3D CNNs
	Hamza Ben Alla (Acadia University) and Lydia Bouzar-Benlabiod (Acadia University)
IRI-64 (15 min)	Causal Explainability of Machine Learning in Heart Failure Prediction from Electronic Health Records
	Yina Hou (Tennessee State University), Shourav Rabbani (Tennessee State University), Liang Hong
	(Tennessee State University), Norou Diawara (Old Dominion University), and Manar Samad (Tennessee State University)
IRI-51 (10 min)	Enhancing RAG with Domain-Specific Knowledge Graphs for Accurate Medical Data Retrieval
	Saumya Dabhi (Old Dominion University) and Faryaneh Poursardar (Old Dominion University)
	Session C2
	Al for Smart Cities and Environment
	Session Chair:
IRI-27(15 min)	Integrating Water Data to Empower Alaska's Rural Communities
	Rachel Lewis (University of Alaska Fairbanks), Noah Tsigonis (Arctic Outlook), and Arghya Kusum Das (University of Alaska Fairbanks)
IRI-85(15min)	Physics-Informed Deep Learning with GLCM-Integrated Loss for Building Damage Assessment
, ,	Using Remote Sensing
	Brennan Miller (Christopher Newport University), Abdul Anouti (Christopher Newport University), and
IRI-5 (15 min)	Yan Lu (Christopher Newport University) Hierarchical ML for Adversarial Resiliency in Autonomous Vehicular Traffic Sign Recognition
11(1-3 (13 111111)	Khanh Linh Nguyen (University of the Pacific), Abishek Vijjeswarapu (University of the Pacific),
	Tapadhir Das (University of the Pacific,) and Houman Habibkhani (University of the Pacific)
IRI-45 (15 min)	Media Impact Index for Disaster Vulnerability Assessment: A Thematic Classification and
	Vulnerability Indexing Framework
	Jainil Anilkumar Patel (University of Missouri-Kansas City), Mohammadreza Akbari Lor (University of Missouri-Kansas City), Shu-Ching Chen (University of Missouri-Kansas City), Mei-Ling Shyu
	(University of Missouri-Kansas City), and Steven Luis (Florida International University)
IRI-52 (10 min)	Design and Development of an Intelligent Search and Rescue System with Advanced Noise
, ,	Reduction and Robust Localization
	Sungbin Im (Soongsil University), Jungyu Choi (Soongsil University), and Joonhwi Kim (Soongsil University)

IEEE IRI Conference Day 2: Thursday, August 8, 2024

	TELE IXI Conference Day 2. Thursday, August 6, 2024
8:20 – 9:30	Awards
0.20 - 9.30	(General Chairs, PC Chairs)
	Keynote 3:
	Session Chair:
0.20 0.45	
9:30 - 9:45	Coffee Break
9:45 – 10:45	Tutorial by: Balaji Palanisamy (University of Pittsburg)
	Title: Decentralized Protection and Delivery of Private Information using Smart Contracts
10 15 11 15	
10:45-11:45	Session D
	Session D1
	AI in Health application
	Session Chair:
IRI-39 (15 min)	Toward Affordable and Non-Invasive Detection of Hypoglycemia: A Machine Learning
	Approach
	Lawrence Obiuwevwi (Old Dominion University), Krzysztof Rechowicz (Old Dominion
	University), Vikas Ashok (Old Dominion University), and Sampath Jayarathna (Old Dominion
IDL 44 (45 main)	University) LLM-based Prompt Ensemble for Reliable Medical Entity Recognition from EHRs
IRI-41 (15min)	K M Sajjadul Islam (Marquette University), Ayesha Siddika Nipu (University of Wisconsin-
	Milwaukee), Jiawei Wu (Medical College of Wisconsin), and Praveen Madiraju (Marquette
	University)
IRI-29 (10 min)	Tuned4You: a Machine Learning-Based Music Scoring Tool Using Health Data
11(1 23 (10 11111)	Nevzat Demirseren (University of North Florida) and Sandeep Reddivari (University of North
	Florida)
IRI-55 (10 min)	Risk Factor Prediction of Chronic Kidney Disease
	Dileep Kumar (SUNY Oswego) and Xiaoliang Wang (SUNY Oswego)
	a i pa
	Session D2
	_ ,
	Federated Learning
	Session Chair:
IRI-79 (15 min)	AndroIDS: Android-based Intrusion Detection System using Federated Learning
	Akarsh K Nair (Indian Institute of Information technology), Shanik Hubert Satheesh Kumar
	(IIIT Kottayam), and Deepti Gupta (Texas A&M University-Central Texas)
IRI-38(15min)	Efficient Federated Learning Convergence with Epoch Adaptation
	Huy-Hieu Nguyen (Hanoi University of Civil Engineering), Nam-Thang Hoang (Hanoi University of Civil Engineering), Hai Anh Tran (Hanoi University of Science and Technology)
	University of Civil Engineering), Hai-Anh Tran (Hanoi University of Science and Technology), Tulika Mandal (Pannsylvania State University), Puthyik Annareddy (Pannsylvania State
	Tulika Mandal (Pennsylvania State University), Ruthvik Annareddy (Pennsylvania State University), Prithvi Choudhary (Pennsylvania State University), and Truong Tran
	(Pennsylvania State University), and Truong Tran (Pennsylvania State University).
IRI-10 (15 min)	Securing Federated Learning against Backdoor Threats with Foundation Model
IVI-10 (19 IIIIII)	Integration
	Xiaohuan Bi (Renmin University of China) and Xi Li (University of Alabama at Birmingham)
	Automan Di Aleman Oniversity of Canal, and Al Di (Oniversity of Automa at Diffittingham)

Likhitha Annapurna Kavuri (Texas A&M University-Central Texas) Akshay Mhatre (Texas A&M University-Central Texas) Akshay Mhatre (Texas A&M University-Central Texas)	IRI-81 (15 min)	SecureFed: A Two-Phase Framework for Detecting Malicious Clients in Federated Learning
RI-77 (15 min) Self-Rectification Faster R-CNN: Enhancing Object Detection in Complex-Background Aerial Images Yang Zhang (University of Missouri), Yuan Feng (University of Missouri), and Yi Shang (University of Missouri) dCrack: Enhancing Fine-Grained Crack Segmentation with Edge-Guided Attention Akm Shahariar Azad Rabby (University of Alabama at Birmingham) and Chengcui Zhang (University of Alabama at Birmingham) and Chengcui Zhang (University of Missouri). P-KESS: A Prior-Knowledge Enforced Semantic Segmentation Pipeline for UAV Imagery River Habitat Segmentation Zhenduo Zhai (University of Missouri), and Yi Shang (University of Missouri). Shang (University of Missouri). Shang (University of Missouri) Text Coherence based Test-Time Adaptation for Collaborative Robot Segmentation		Likhitha Annapurna Kavuri (Texas A&M University-Central Texas), Akshay Mhatre (Texas A&M University-Central Texas), Akarsh K Nair (Indian Institute of Information Technology),
RI-77 (15 min) Self-Rectification Faster R-CNN: Enhancing Object Detection in Complex-Background Aerial Images Yang Zhang (University of Missouri), Itans Feng (University of Missouri), and Yi Shang (University of Missouri), Itans Feng (University of Missouri), and Yi Shang (University of Missouri) of Missouri) dCrack: Enhancing Fine-Grained Crack Segmentation with Edge-Guided Attention Akm Shahariar Azad Rabby (University of Massouri) dCrack: Enhancing Fine-Grained Crack Segmentation with Edge-Guided Attention Akm Shahariar Azad Rabby (University of Alabama at Birmingham) and Chengcui Zhang (University of Alabama at Birmingham) P-KESS: A Prior-Knowledge Enforced Semantic Segmentation Pipeline for UAV Imagery River Habitat Segmentation Pipeline for UAV Imagery River Habitat Segmentation Zhenduo Zhai (University of Missouri), Zhiguang Liu (University of Missouri), Shiqi Wang (University of Missouri), and Yi Shang (University of Missouri) Text Coherence based Test-Time Adaptation for Collaborative Robot Segmentation RI-13 (10 min) Spatiotemporal DeepFake Video Detection: A Hybrid CNN-Transformer Approach with Frequency Analysis Naciye Celebi (Sam Houston State University) and Qingzhong Liu (Sam Houston State University) RI-83 (15 min) The Impact of Class Imbalance on Unsupervised Deep Anomaly Detection for Cognitive Data Zahra Salekshahrezaee (Florida Atlantic University).	11:30-13:00	Lunch break
RI-77 (15 min) Self-Rectification Faster R-CNN: Enhancing Object Detection in Complex-Background Aerial Images Yang Zhang (University of Missouri), Yuan Feng (University of Missouri), and Yi Shang (University of Missouri) of Alabama at Birmingham) and Chengcui Zhang (University of Alabama at Birmingham) and Chengcui Zhang (University of Missouri) of Alabama at Birmingham) and Chengcui Zhang (University of Missouri), Zhiquang Liu (University of Missouri), Shiqi Wang (University of Missouri), Zhiquang Liu (University of Missouri), Shiqi Wang (University of Missouri), Zhiquang Liu (University of Missouri), Shiqi Wang (University of Missouri), Zhiquang Liu (University of Missouri) RI-13 (10 min) Text Coherence based Test-Time Adaptation for Collaborative Robot Segmentation Session E2	13:00-14:00	Keynote 4:
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RRI-77 (15 min) Self-Rectification Faster R-CNN: Enhancing Object Detection in Complex-Background Aerial Images Yang Zhang (University of Missouri), Yuan Feng (University of Missouri), and Yi Shang (University of Missouri) RRI-70 (15 min) dCrack: Enhancing Fine-Grained Crack Segmentation with Edge-Guided Attention Akm Shahariar Azad Rabby (University of Alabama at Birmingham) and Chengcui Zhang (University of Alabama at Birmingham) P-KESS: A Prior-Knowledge Enforced Semantic Segmentation Pipeline for UAV Imagery River Habitat Segmentation Zhenduo Zhai (University of Missouri), Zhiguang Liu (University of Missouri), Shiqi Wang (University of Missouri) Text Coherence based Test-Time Adaptation for Collaborative Robot Segmentation		Computer Vision
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Naciye Celebi (Sam Houston State University) and Qingzhong Liu (Sam Houston State University) IRI-83 (15 min) The Impact of Class Imbalance on Unsupervised Deep Anomaly Detection for Cognitive Data Zahra Salekshahrezaee (Florida Atlantic University) and Taghi Khoshgoftaar (Florida Atlantic University). IRI-19 (15 min) Connecting the Dots: An Integrated Vulnerability Knowledge Graph for Security Practitioners	IRI-7 (15 min)	Spatiotemporal DeepFake Video Detection: A Hybrid CNN-Transformer Approach with
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IRI-19 (15 min) Connecting the Dots: An Integrated Vulnerability Knowledge Graph for Security Practitioners		Zahra Salekshahrezaee (Florida Atlantic University) and Taghi Khoshgoftaar (Florida
	IRI-19 (15 min)	Connecting the Dots: An Integrated Vulnerability Knowledge Graph for Security
Northwest National Laboratory, Idaho National Laboratory), and Ann Marie Reinhold (Montana State University, Pacific Northwest National Laboratory).		Brittany Boles (Montana State University), Clemente Izurieta (Montana State University, Pacific Northwest National Laboratory, Idaho National Laboratory), and Ann Marie Reinhold

IRI-30 (10 min)	PeerGuard: Defending Multi-Agent Systems Against Backdoor Attacks Through Mutual Reasoning
	Falong Fan (The Chinese University of Hong Kong) and Xi Li (University of Alabama at Birmingham).
16:00-16:15	Break
16:15-18:00	Session F1
	EM-RITE Workshop
	Chair: Min-Yuh Day
EMRITE-3 (15min)	Trust-Guided Multi-Agent LLM Risk Classification in Safety-Critical Dialogues Jun-Yu Wu and Min-Yuh Day
EMRITE-4 (15min)	Formosan Language Morphological Analyzer Chuan-Jie Lin, Li-May Sung, Chun-Kai Yang, and Bo-Yi Jin
EMERITE-6 (15min)	Fine-tuned Models for Hate Speech Detection: Assessing Generalization on Social Media Shih-Hung Wu and Tsung-Hsun Tsai
EMERITE-7 (15min)	Explainable Patterns of LLM Funding Behaviour in Startup Funding Decision Duang-kamol Buranasomphop
EMRITE-8 (15min)	From Silence to Voice: Using Personalized AI Language Models to Improve Quality of Life for People with Speech Impediments Yu-An Lin, Yue-Shan Chang, Chao-Yin Lin, Chen-Yu Chiang, and Min-Yuh Day
	Session F2
	Artificial Intelligence for HealthCare (AIHC) Workshop
	Session Chair: Lydia Bouzar-Benlabiod / Andrew McIntyre
AIHC-3676 (15 min)	LLM-based Agents for Automated Confounder Discovery and Subgroup Analysis in Causal Inference Po-Han Lee, Yu-Cheng Lin, Chantung Ku, Chan Hsu, Pei-Cing Huang, Pinghsung Wu, and Yihuang Kang (National Sun Yat-Sen University).
AIHC-4057 (15 min)	Quality Assessment of Embryo Development Based on EM-aided Collaborative Learning Jung-Hua Wang (AI Research Center, National Taiwan Ocean University), Chang-Hong Wu (Department of Electrical Engineering, National Taiwan Ocean University), Ming-Jer Chen (Department of Obstetrics, Gynecology and Women's Health, Taichung Veterans General Hospital), Yu-Chiao Yi (Department of Obstetrics, Gynecology and Women's Health Taichung Veterans General Hospital Taichung), Huai-Wen Chang (Department of Electrical Engineering, National Taiwan Ocean University)
AIHC-4424	Towards Interpretable Renal Health Decline Forecasting via Multi-LMM Collaborative
(15 min)	Reasoning Framework Peng-Yi Wu (Department of Information Management, National Sun Yat-Sen University), Pei- Cing Huang (Department of Information Management, National Sun Yat-Sen University), Ting- Yu Chen (Department of Information Management, National Sun Yat-Sen University), Chantung Ku (Department of Information Management, National Sun Yat-Sen University), Ming-Yen Lin (Kaohsiung Medical University Hospital, Kaohsiung Medical University), and Yihuang Kang (Department of Information Management, National Sun Yat-Sen University).

AIHC-4701	Integrating Interpretability into Deep Learning Models for Mammogram-Based Breast
(15 min)	Cancer Detection
, ,	Joy Ndirangu (Acadia University) and Lydia Bouzar-Benlabiod (Acadia University).
AIHC-5897	Longitudinal Analysis of Diabetes-Respiratory Distress Connections in Multimodal QBB
(15 min)	Data Using Artificial Intelligence
	Sulaiman Khan (College of Science and Engineering, Hamad Bin Khalifa University, Qatar
	Foundation) and Zubair Shah (College of Science and Engineering, Hamad Bin Khalifa
	University, Qatar Foundation).
AIHC-8981	Unsupervised Cognitive Impairment Detection Using Convolutional Autoencoders and
(15min)	Isolation Forest
	Zahra Salekshahrezaee (Florida Atlantic University) and Taghi Khoshgoftaar (Florida Atlantic
	University).
AIHC-9863	A New and Effective Technique for Unsupervised Labeling and Feature Selection with
(15min)	Applications in Healthcare Fraud Detection
	John Hancock (Florida Atlantic University), Robert Kennedy (Florida Atlantic University),
	Mary Walauskis (Florida Atlantic University), and Taghi Khoshgoftaar (Florida Atlantic
	University)
7:00 - 9:00 pm	
	Banquet

IEEE IRI Conference Day 3: Friday, Aug 9, 2024

8:20 - 9:30	Varmata 5.
	Keynote 5:
0.20 0.45	Session Chair:
9:30 - 9:45	Coffee break
9:45 – 11:30	Session G
	Session G1
	Al for Society
	Session Chair:
IRI-25 (15 min)	Towards Simulating Social Influence Dynamics with LLM-based Multi-agents
IKI-25 (15 IIIIII)	Hsien-Tsung Lin (National Sun Yat-Sen University), Pei-Cing Huang (National Sun Yat-Sen University), Chan-Tung Ku (National Sun Yat-Sen University), Chan Hsu (National Sun Yat-Sen University), and Yihuang Kang (National Sun Yat-Sen University)
IRI-17 (15 min)	MultiRAG: A Fuzzy Logic-Driven Multi-Granularity Framework for Legal Document Generation Parag Tamhankar (Georgia State University), Nishchay Patel (Georgia State University), and Manish Kolla (Georgia State University).
IRI-33(15min)	Benchmarking Transformer and Sequence Models for UWB Indoor Localization Somayeh Modaberi (University of Calgary)
IRI-97 (15 min)	A ChatGPT-Powered Tool for Automating Context-Aware Acceptance Criteria Generation for User Stories Jessica Rawson (University of North Florida) and Sandeep Reddivari (University of North Florida)
	Session G2
	DL applications
	Session Chair:
IRI-43 (15min)	zSHiFT: A Siamese Hierarchical Transformer Network for Zero Shot Time Series Forecasting
	Harrison Thayer (California State University, Fullerton) and Anand Panangadan (California State University, Fullerton)
IRI-36 (15min)	Beyond Gaze Overlap: Analyzing Joint Visual Attention Dynamics Using Egocentric Data
	Kumushini Thennakoon (Old Dominion University), Yasasi Abeysinghe (Old Dominion University), Bhanuka Mahanama (Old Dominion University), Vikas Ashok (Old Dominion University), and Sampath Jayarathna (Old Dominion University)
IRI-26 (15min)	Unsupervised Domain-Adaptation for Appearance-based Gaze Estimation Bhanuka Mahanama (Old Dominion University), Vikas Ashok (Old Dominion University), and Sampath Jayarathna (Old Dominion University).
IRI-74 (15min)	Database Entity Recognition with Data Augmentation and Deep Learning Zikun Fu (OntarioTech University), Chen Yang (Northeastern University), Heidar Davoudi
	(OntarioTech University), and Ken Pu (OntarioTech University)

11:30-13:00	Lunch Break
13:00-14:00	Keynote 6:
	Session Chair:
14.00.14.15	
14:00-14:15	Break
- 14:15-16:00	Session H
	Session H1
	NLP and Al-assistants
	Session Chairs:
IRI-100 (15min)	Fusion-based Clustering with Interaction Rate for Imbalanced and Chained Structures
	Mohammed Ouali (Adrian College), Gherbaoui Radhwane (Universite de Chlef), and Nacera Benamrane (Universite des Sciences et Technologies)
IRI-73 (15min)	Design and Development of a Real-Time Camera-based Smart Cooking Assistant
	Hammad Sheikh (California State University, Fullerton), Kiran George (California State
	University, Fullerton), Tabashir Nobari (California State University, Fullerton), and Anand
IDI 27 (45min)	Panangadan (California State University, Fullerton)
IRI-37 (15min)	Quantitative Evaluation of AI-generated Recipes for Health Recommender Systems Divya Tanwar (California State University, Fullerton), Tabashir Nobari (California State
	University, Fullerton), Pia Chaparro (University of Washington), and Anand Panangadan
	(California State University, Fullerton)
IRI-15 (15min)	Integrating Computational Text Analysis into Risk and Crisis Communication
	Development
	Madison Munro (Montana State University), Manuel Ruiz-Aravena (Mississippi State
	University), Elizabeth Shanahan (Montana State University), Savanna Washburn (Montana
	State University), and Ann Marie Reinhold (Montana State University)