IEEE IRI 2022 Program (version: August 3, 2022)

Program Overview (note that the sessions may have different starting times and lengths; please refer to the detailed program below for the specific information; the table below provides an overview and an overview only)

Tuesday (Aug 9)		Wednesday (Aug 10)		Thursday (Aug 11)	
Student Volunteers: Bradley Cox		Student Volunteers: Bradley Cox		Student Volunteers: Shahariar	
(Virginia State University) and		(Virginia State University) and		Rabby (University of Alabama at	
Md Rayhan Ami	n (Mississippi	Aurek Chattopadhyay		Birmingham) and Rajatsubhra	
State University)		(University of Cincinnati)		Chakraborty (Wayne State	
,,				University)	
Opening & Ke	ynote by Prof.	Awards & Keynote by Guy		F1 Knowledge	F2 (AIHC-1)
Hiroyuki Kitagawa		Paillet		Engineering	
					Session Chair:
Session Chair: S	Session Chair: Shu-Ching Chen		Danda Rawat	Session Chair:	Lydia Bouzar-
				Nan Niu	Benlabiod
A1 Deep	A2 Time Series	D1 Object	D2 Security	G1 (DIM &	G2 (AIHC-2)
Learning	Analysis	Recognition		TechAAL)	
			Session Chair:		Session Chair:
Session Chair:	Session Chair:	Session Chair:	Baocheng	Session Chairs:	Lydia Bouzar-
Baocheng	Min Chen	Lydia Bouzar-	Geng	Saad Sadiq and	Benlabiod
Geng		Benlabiod		Daniel	
				Alexandre	
B1 Smart Cities	B2 ML and AI	E1 Health and	E2		
		Accessibility	Applications		
Session Chair:	Session Chair:				
Nan Niu	Baocheng	Session Chair:	Session Chair:		
	Geng	Min Chen	Desta H. Hagos		
C1 (EMRITE)	C2 Software				
	Engineering				
Session Chair:					
Min-Yuh Day	Session Chair:				
	Nan Niu				

Time Zone: Las Vegas local time (Pacific Time Zone PDT)

IEEE IRI Conference Day 1: Tuesday, August 9, 2022

9:00-9:15am	Welcome, Conference Opening Remarks (General Chairs, PC Chairs)
9:15-10:15am	Keynote 1: Hiroyuki Kitagawa Professor, International Institute for Integrative Sleep Medicine, University of Tsukuba, Japan

	Big Sequence Data Analysis: From Stream Processing Technology to Applications in Sleep
	Medicine All Control of the Control
	Session Chair: Shu-Ching Chen, University of Missouri-Kansas City, USA
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	Zoom Link: https://us02web.zoom.us/j/89859751741
10:15 - 10:30 am	Coffee Break
10:30-11:25am	Session A
10.00 11.20 4.11	Session A1
	Deep Learning
	Deep Bearining
	Session Chair: Baocheng Geng, University of Alabama at Birmingham, USA
	Zoom Link: https://us02web.zoom.us/j/89859751741
IRI13 (15 min)	IRI13: Deep Formality: Sentence Formality Prediction with Deep Learning
	Can Li, Wenbo Wang, Bitty Balducci, Lingshu Hu, Matthew Gordon, Detelina Marinova, and Yi
	Shang
IRI49 (15 min)	Analysis of Student Emotional States in AP Courses through Social Media Based on Deep
11(14) (13 11111)	Learning
	Emily Yang and Ying Jin
IRI9 (15 min)	Classification of Electroencephalograms during Mathematical Calculations Using Deep
11(1) (13 11111)	Learning
	Umang Goenka, Param Patil, Kush Gosalia, and Aaryan Jagetia
IRI62 (10 min)	Embracing Deep Learning for Crack Segmentation in SEM Images of Metal Additive
INTOZ (TO IIIII)	Manufacturing Manufacturing
	Xiaoliang Wang, Justin Lowery, Yongjin Lu, Wei-Bang Chen, Shanshan Zhang, and Zhenhua Wu
	Session A2
	Time Series Analysis
	- 1110 S - 11101 S -
	Session Chair: Min Chen, University of Washington (Bothell), USA
	Zoom Link: https://us02web.zoom.us/j/87422710820
IRI41 (15 min)	0 11
	Victor Tran and Anand Panangadan
IRI7 (15 min)	·
	Matthew Horak, Sowmya Chandrasekaran, and Giovanni Tobar
IRI18 (15 min)	A News Recommendation Model Based on Time Awareness and News Relevance
	Shaojun Ren and Chongyang Shi
IRI54 (10 min)	Towards Undeceived: Fake Reviews Detection Models Comparison
	Keming Wu and Faryaneh Poursardar
11:25am-1:00pm	Lunch break
1:00 - 1:55 pm	Session B
	Session B1
	Smart Cities
	Session Chair: Nan Niu, University of Cincinnati, USA

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	Zoom Link: https://us02web.zoom.us/j/89859751741	
IRI46 (15 min)	A Multi-Dimensional Analysis of Traffic Incident Data for Disaster Management in Smart	
	Cities	
	Carson Leung, Joshua Thomas, and Matthew Kwiatkowski	
IRI73 (15 min)	Multi-Task Local-Global Graph Network for Flight Delay Prediction	
IRI45 (15 min)	Tianyi Wang and Shu-Ching Chen Regression-Based Data Science Solutions for Transportation Analytics	
IKI43 (13 IIIII)	Carson Leung, Jason Tran, and Tanisha Turner	
IRI69 (10 min)	Fake News Detection: An Investigation based on Machine Learning	
	Payal Agarwal and Sandeep Reddivari	
	Session B2	
	ML and AI	
	Session Chair: Baocheng Geng, University of Alabama at Birmingham, USA	
	Zoom Link: https://us02web.zoom.us/j/87422710820	
IRI31 (15 min)	A Class-Imbalanced Study with Feature Extraction via PCA and Convolutional Autoencoder	
	Zahra Salekshahrezaee, Joffrey Leevy, and Taghi Khoshgoftaar	
IRI19 (15 min)	Multilayer Meta-Learning Approach to Forecasting Air Pollutants	
	Samuel A. Ajila	
IRI75 (15 min)	Study of Adversarial Machine Learning for Enhancing Human Action Classification	
IRI64 (10 min)	Demarcus Edwards, Danda B. Rawat, and Brian Sadler Neural Network Accelerated Tuple Search For Relational Data	
1K104 (10 IIIII)	Limin Ma and Ken Pu	
1:55 – 2:10pm	Coffee Break	
2:10 - 3:10pm	Session C	
	Session C1	
	EMRITE Workshop	
	Session Chair: Min-Yuh Day, National Taipei University, Taiwan	
	Session Chair. Willi-Tuli Day, National Taiper Oniversity, Taiwan	
	Zoom Link: https://us02web.zoom.us/j/89859751741	
EMRITE5207	An Automatic Evaluation Method for Open-domain Dialogue Based on BLEURT	
(15 min)	Lee Jia-Jun and Wu Shih-Hung	
EMRITE7945	Developing Relation Types of Cryptocurrency Anti-Money Laundering Knowledge Graph	
(15 min) EMRITE3803	Min-Yuh Day, Pei-Tz Chiu, Yung-Wei Teng, and Chao-Lin Liu How Travel Vlogs on YouTube Influence Consumer Travel Behavior in Indonesia: Empirical	
(15 min)	Evidence from fsQCA	
(10 11111)	Wen-Kuo Chen, Lin Sheng Ling, Huang Yu Jie, Pantas H. Silaban, Yuni Kartika Sitanggang, and	
	Andri Dayarana K. Silalahi	
EMRITE4938	Does nationality affect eWOM? Factors affecting customer satisfaction and eWOM in	
(15 min)	Indonesian Online Clothing Brands	
	Serhan Demirci, Ahmad Muzakki Binamak, Muhammad Rafli Dwi Pradana, Achmad Akbar	
	Hidayatulloh, Te-Yu Peng and Au Due Tang Session C2	
	Session C2 Software Engineering	
	Dotti are Liighteeting	
	Session Chair: Nan Niu, University of Cincinnati, USA	

	Zoom Link: https://us02web.zoom.us/j/87422710820	
IRI74 (15 min)	Artificial Intelligence in Software Requirements Engineering: State-of-the-Art	
	Kaihua Liu and Sandeep Reddivari	
IRI53 (15 min)	A Searching Mechanism for Services of IoT Applications	
	Kaibin Xie	
IRI23 (15 min)	Blockchain-Oriented Requirements Engineering: New Directions	
	Sandeep Reddivari and Aaron Wilson	
IRI68 (10 min)	Evaluating Audio-to-Text utilizing Dragon in the Context of Just-in-Time Requirements	
	William Vickers and Sandeep Reddivari	

IEEE IRI Conference Day 2: Wednesday, August 10, 2022

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9:05-9:15am	Awards (General Chairs, PC Chairs)
	Keynote 2:
	Guy Paillet
	CEO, General Vision
	Real-Time Machine Learning: Human Condition Monitoring based on NeuroTile
9:15 - 10:15am	Photopletysmograph Sensing
	Garrier Chain Danie Barret Harrand Hairani (a. 110 A
	Session Chair: Danda Rawat, Howard University, USA
	Zoom Links https://ps02wsh.zoom.ps/i/20250751741
	Zoom Link: https://us02web.zoom.us/j/89859751741
10:15-10:30am	Coffee Break
10:30-11:25am	Session D
	Session D1
	Object Recognition
	Session Chair: Lydia Bouzar-Benlabiod, Ecole Nationale Supérieure d'Informatique, Algeria
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	Zoom Link: https://us02web.zoom.us/j/89859751741
IDIO0 (15 :)	
IRI28 (15 min)	Iterative Approach for Novel Entity Recognition in Social Media Messages
IDI76 (15 min)	Brandon Chenze, Eugene Lee, and Anand Panangadan
IRI76 (15 min)	Fully Automatic Top Coat Layer Recognition in Thermal Barrier Coating Images
IDIO((15 :)	Yongjin Lu, Wei-Bang Chen, Xiaoliang Wang, and Ben Zimmerman
IRI29 (15 min)	Validation of Simulated Mechanical Vibration Data for Operational State Recognition
	System Lukko Lunttilo Angoi Sillonnii and Villo Limai
IRI71 (10 min)	Jukka Junttila, Anssi Sillanpää and Ville Lämsä Counting Pixels for an Effective Axis Detection
	Keeheon Lee, Eury Sohn, Kunhee Ryu, and Seongmin Oh
	Session D2
	Security
	Security
	Session Chair: Baocheng Geng, University of Alabama at Birmingham, USA
	Zoom Link: <u>https://us02web.zoom.us/j/87422710820</u>
IDI44 (15 :)	
IRI44 (15 min)	Online Malware Classification with System-Wide System Calls in Cloud IaaS
IDI20 (17 :)	Phillip Brown, Austin Brown, Maanak Gupta and Mahmoud Abdelsalam
IRI38 (15 min)	ImpartialGAN: Fair and Unbiased Classification
IDI72 (15 :)	Neha Bhargava, Yves Junior Kwame Kamgaing and Ramazan Aygun
IRI72 (15 min)	Text-Based Machine Learning Models for Cross-Domain Vulnerability Prediction: Why
	They may not be Effective?
IDI61 (10)	Kollin Napier and Tanmay Bhowmik
IRI61 (10 min)	Automatic labeling of the elements of a vulnerability report CVE with NLP
	Kensuke Sumoto, Kenta Kanakogi, Hironori Washizaki, Nobukazu Yoshioka, Naohiko Tsuda,
11,250m	Yoshiaki Fukazawa, and Hideyuki Kanuka
11:25am- 1:00pm	Lunch break
•	Session E
1:00-2:10pm	Session E

	Session E1 Health and Accessibility
	Session Chair: Min Chen, University of Washington (Bothell), USA
	Zoom Link: https://us02web.zoom.us/j/89859751741
IRI50 (15 min)	Using SHAP Analysis to Detect Areas Contributing to Diabetic Retinopathy Detection
IRI39 (15 min)	Esmaeil Shakeri, Trafford Crump, Ezekiel Weis, Roberto Souza, and Behrouz Far An Alternative Timing and Synchronization Approach for Situational Awareness and
11(13) (13 11111)	Predictive Analytics
	Supriya Chinthavali, Shamimul Hasan, Srikanth Yoginath, Haowen Xu, Terry Jones, Cozmo
	Engebretsen, Joseph Olatt, Tansakul Varisara and Carter Christopher
IRI51 (15 min)	COVID-19 Vaccine Infodemiology using Unsupervised Natural Language Processing
	Esmaeil Shakeri, Anja Slama, Roberto Souza, and Behrouz Far
IRI42 (15 min)	ExplainabilityAudit: An Automated Evaluation of Local Explainability in Rooftop
	Classification
	Duleep Rathgamage Don, Jonathan Boardman, Sudhashree Sayenju, Ramazan Aygun, and
IDICC (10 min)	Sereres Johnston
IRI66 (10 min)	Improving GIF Image Accessibility on Web Apoorva Bhatnagar and Min Chen
	Session E2
	Applications
	Appleations
	Session Chair: Desta H. Hagos, Howard University, USA
	Zoom Link: https://us02web.zoom.us/j/87422710820
IRI3 (15 min)	The Rise of Metaverse and Interoperability with Split-Protocol
	Andrew Mentges, Bharat Rawal, and Shakaib Ahmad
IRI40 (15 min)	Audio Sentiment Analysis using Spectrogram and Bag-of-Visual-Words
	Sophina Luitel and Mohd Anwar
IRI32 (15 min)	Dynamic Packet Filtering Using Machine Learning
	Chandan Sai Chebrolu, Chung-Horng Lung, and Samuel Ajila
IRI58 (10 min)	A Deep Learning Sequential-based Model for Predicting Victories in Video Games
	Francoise Blanc, Azhar Syed, Ali Mohammadi Esfahani, Sandeeo Reddy Venna, and Samuel
IDI50 (10 :)	A. Ajila
IRI59 (10 min)	Optimization of SHA-256 with Multi-thread Split Protocols
	Bharat Rawal, Harsh Miyani, and Md Labu

IEEE IRI Conference Day 3: Thursday, Aug 11, 2022

10:30-	Session F
11:30am	Session F1
	Knowledge Engineering
	Milowieuge Engineering
	Session Chair: Nan Niu, University of Cincinnati, USA
	Zoom Link: <u>https://us02web.zoom.us/j/89859751741</u>
IRI20 (15	Graph Knowledge Transfer for Offensive Language Identification with Graph Neural
min)	Networks
11111)	Yen-Hao Huang, Kevin Harryyanto, Che-Wei Tsai, Ratana Pornvattanavichai, and Yi-Shin Chen
IRI35 (15	A Graph Structure to Discover Patterns in Unstructured Processes of Product
min)	Development
	Julian Ziegler, Peter Reimann, Bernhard Mitschang, Christoph Schulz, and Florian Keller
IRI17 (15	Fine-Grained ICD Code Assignment Using Ontology-Based Classification
min)	Joshua Carberry and Haiping Xu
IRI65 (10	Incremental Computation of Information Gain in Temporal Relational Streams
min)	Ken Pu and Limin Ma
,	Session F2
	Artificial Intelligence for HealthCare (AIHC) Workshop - I
	Session Chair: Lydia Bouzar-Benlabiod, Ecole Nationale Supérieure d'Informatique, Algeria
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	Zoom Link: https://us02web.zoom.us/j/87422710820
AIHC1520	Healthcare Provider Summary Data for Fraud Classification
(15 min)	Justin Johnson and Taghi Khoshgoftaar
AIHC5046	Optimizing Ensemble Trees for Big Data Healthcare Fraud Detection
(15 min)	John Hancock and Taghi Khoshgoftaar
AIHC0711	Classification of CXR Chest Diseases by Ensembling Deep Learning Models
(15 min)	Moulay Akhloufi and Adnane Ait Nasser
AIHC8402	Multi-Scale Deep Ensemble Learning for Melanoma Skin Cancer Detection
(15 min)	Takfarines Guergueb, Moulay Akhloufi
11:30am-	
1:00pm	Lunch break
1:00 -	
2:00pm	Session G
•	Session G1
	DIM & TechAAL Workshops
	Session Chairs: Saad Sadiq (University of Miami, USA), Daniel Alexandre, and Ivan Miguel
	Pires (Universidade de Tras-os-Montes e Alto Douro, Portugal)
	Zoom Link: https://us02web.zoom.us/j/89859751741
DIM12 (15	Video Alignment of Lecture Notes Missing Corners
min)	Adeyemi Fagbemi, Ramazan Aygun, Mahmut Karakaya, and Nesrin Sahin
DIM14 (15	Public Outlook on E-sports in China: A Content and Sentiment Analysis of Social Media

min)	Yifan Wang, Xiaochuan Zheng, and Tianda fan
DIM16 (15	Smart Parking System with PlacePod, LoRaWAn IoT sensors and Android app
min)	Sofeem Nasim, Mourad Oussalah, Tarja Outila, Johannes Jutila
TechAAL1	Identifying universal safety signs using computer vision for an assistive feedback mobile
(15 min)	application
	Alankrit Mishra, Nikhil Raj, Shubham Bodhe, and Garima Bajwa
	Session G2
	Artificial Intelligence for HealthCare (AIHC) Workshop - II
	Chair: Lydia Bouzar-Benlabiod, Ecole Nationale Supérieure d'Informatique, Algeria
	Zoom Link: https://us02web.zoom.us/j/87422710820
	Zoom Emk: <u>https://ds02web.zoom.us/j/8/422/10820</u>
AIHC4944	ARSeg: An Attention RegSeg Architecture for CXR Lung Segmentation
(15 min)	Rafik Ghali and Moulay Akhloufi
AIHC4082	Adding Explainability to Machine Learning Models to Detect Chronic Kidney Disease
(15 min)	Md Ariful Islam, Kowshik Nittala, Garima Bajwa
AIHC8723	Study of Metadata Impact on COVID-19 Detection using Convolutional Neural Networks
(15 min)	Nooshan Sedaghati and Bahareh Abbasi
	End