School of Computer Science Research Students' Public Presentations Schedule (v2.0) 15th, 16th and 17th April 2024 IT125G, Computer Science Building

Monday, 15th April 2024

Name	Monday 15 th April	Presentation Titles	Chair		
10:00 Welcome Address by Head of School of Computer Science, Profession Michael Madden					
Alexandru Martin Locodi	10:15	Controlling the game: a look at interesting graph topologies in spatial evolutionary game theory	Adrian Clear		
Sai Abinesh Natarajan	10:30	Game Engine Based Synthetic Data Generation Schemes and Convolutional Neural Networks			
Irish Senthilkumar	10:45	A Cell-Based and AI-Accelerated Computational Framework for the Prediction of Mechanosensitive Tumour Growth			
Michael Gian Gonzales	11:00	Joint Speech-Text Embeddings for Multitask Speech Processing			
Timothy Hanley	11:15	A Machine Learning Approach to MP4 Compression Artefact Removal for Simulated Time Events			
		BREAK 11:30 - 11:45			
Sumana Biswas	11:45	Multimodal Sentiment Analysis of Social Media Data	Attracta Brennan		
Bentolhoda (Hoda) Binaei	12:00	Abductive Reasoning with LLMs about Incomplete Audio Data			
Gearóid Reilly	12:15	Multiuser Social Virtual Reality to Facilitate Social Interaction for People Living with Dementia			
Michael Duignan	12:30	Ransomware Detection using Machine Learning			
Xue Yang	12:45	Out of Distribution Detection for Reinforcement Learning			
		LUNCH 13:00 – 14:00			
Ilas Faiud	14:00	Agent-Based Modeling Approach for Simulating Solar PV Adoption: A Case Study of Irish Dairy Farms			
Jonaid Shianifar	14:15	Multi-Objective Reinforcement Learning for Adaptive Robotic Arm Control			
Rashiduddin Yoldash	14:30	Predictive Security Analytics Platform with Data Governance for Financial Crimes.	Ihsan Ullah		
Zixian Zhang	14:45	AI-Driven Approaches to Code Similarity Measurement			
Louise McCormack	15:00	Evaluating & Scoring Trustworthy AI			
		BREAK 15:15 – 15:30			
Malaika Mushtaq	15:30	Explainable light weight neural networks after knowledge distillation	Patrick Mannion		
Hazrat Bilal	15:45	Automated Retinal Disease Detection and Diagnosis			
Kavach Dheer	16:00	Sensing Emotions to more personalized Recommendations			

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Tuesday, 16th April 2024

Name	Tuesday 16 th April	Presentation Titles	Chair		
Kevin Derrane	09:30	Applying machine learning towards mitigating cold starts and efficient management and allocation of	Karl Mason		
		resources in serverless computing environments			
Seán Caulfield Curley	09:45	Creation of a synthetic population for small areas in Ireland using microsimulation			
Kulsoom Umay	10:00	Automated Disease Detection Using Machine Learning with Radiology Reports			
Junlin Lu	10:15	Conquering the Frontier: Tackling Hard-Exploration Challenges in Multi-objective Reinforcement Learning			
Evan O'Riordan	10:30	On the Emergence of Fairness in Evolutionary Games			
Mian Ibad Ali Shah	10:45	Peer-to-Peer Energy Trading in Dairy Farms using Multi-Agent Systems			
		BREAK 11:00 - 11:15			
Kouider Chadli	11:15	Responsible DevOps of Machine Learning Enabled Systems (REMEDY)	Bharathi Chakravarthi		
Rana Zeeshan	11:30	Pursuit of Digital Innovation in Psychiatric Data-Handling Practices in Irish Mental Health Services			
Muzhaffar Hazman	11:45	Analysing User-Generated Multimodal Memes in an Online Social Media Context			
Maziar Kanani	12:00	Grammatical Structure and Grammatical Variations in Non-Metric Music			
Allassan Tchangmena A	12:15	Multimodal Federated Learning Approach for Human Activity Recognition in Privacy Preserving Videos (FLARE)			
Nken					
Dost Muhammad	12:30	Evaluating Explainable AI Methods for Medical Image Processing: How Can the Explainability Be Enhanced?			
		LUNCH 12:45 – 13:45			
Nawazish Ali	13:45	Reinforcement Learning for Battery Management in Dairy Farming	Karen Young		
Michael Joseph McMahon	14:00	A Novel Open BCI Mobile Framework for Motor Cortex EEG Signal Classification utilizing TensorFlow Lite			
Iqra Nosheen	14:15	Virtual Reality for Robust Deep Learning in the Real World			
Durre Zehra Syeda	14:30	Prediction and Longitudinal Visualization of Malware Evolution Using Artificial Intelligence			
Damian Wlodarczyk	14:45	Integrating Unmanned Aerial Vehicles and Space-Air-Ground Communications to Enhance Emergency Response Strategies			

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Wednesday, 17th April 2024

Name	Wednesday 17 th April	Presentation Titles	Chair
Aaron Flanagan	14:00	Machine & Deep Learning for Raman and NIR Spectroscopy	
Jiaolin Luo	14:15	Reclaiming Quantization Residual Knowledge	
Muhammad Asad	14:30	Beyond the Known: Adversarial Autoencoders in Novelty Detection	Matthias Nickles
Muhammad Adeel Hafeez	14:45	From Vision to Precision: Refining Depth Estimation for Autonomous Vehicles	
Ayman Abaid	15:00	Deep Learning for Cardiovascular Medical Image Processing	
Kevlyn Stanly Kadamala	15:15	Enhancing HVAC Control Efficiency: Transfer Learning Approaches	
		Break 15:30 - 15:45	
Ethan Padden	15:45	Neutrality in genetic algorithms	
Hossein Khaleghy	16:00	An Agent Based Approach to Irish Dairy Farm Electricity Consumption Modeling	
Kevin O'Brien	16:15	A framework for multi-agent algorithmic recourse in normal form games	lamas MaDarmatt
Adam Callaghan	16:30	Multi-Objective Evolutionary Reinforcement Learning	James McDermott
	16:45	Concluding Remarks]
		Followed by Pizza and refreshments in the Orbsen Foyer Area	