School of Computer Science
Research Students' Public Presentations Schedule (v1.2)
22nd and 23rd May 2023
IT125G, Ground Floor Computer Science Building

Monday, 22nd May 2023

Name	Monday 22nd May	Presentation Titles	Chair
9.00 Welcome Address – Professor Michael Madden, Head of School of Computer Science			
Muhammad Asad	9.15	_Leveraging Adversarial Autoencoders for Generative Probabilistic Novelty Detection_	**Dr James McDermott**
Michael Duignan	9.30	_Using NTFS File System Analysis to Detect Ransomware Attacks_	
Mary Loftus	9.45	_Teaching Critical Thinking at the Intersection of Human & Artificial Intelligence_	
Nafea Muhanna Alanazi	10.00	_Unsupervised Machine Learning Techniques for Grouping and Predicting Student Performance_	
Jonaid Shianifar	10.15	_Reinforcement Learning for Adaptive Robotic Arm Control_	
Sumana Biswas	10.30	_Multimodal Sentiment Analysis of Social Media Data_	
Bentolhoda (Hoda) Binaei	10.45	_Confidence Estimation for Speech Recognition_	
BREAK 11.00 – 11.15			
Daniel Kelly	11.15	_Classification of Denial of Wallet Attacks on Visual Representations of Serverless Function Request Traffic_	**Dr Ihsan Ullah**
Muhammad Adeel Hafeez	11.30	_Self-Supervised Temporal Depth Estimation for Autonomous Vehicles_	
Michael Gian Gonzales	11.45	_On-Device Neural Speech Understanding for Consumer Devices_	
Seán Caulfield Curley	12.00	_Adversarial Policies: Detecting and Defending Against Attacks by Deep Reinforcement Learning Agents_	
Eléa Thuilier	12.15	_AR/VR Pose Tracking for Task-Oriented Physical Therapy Training for the Treatment of Osteoporosis_	
Ilas Faiud	12.30	_Modelling Solar PV Adoption in Irish Dairy Farms using Agent-Based Modelling_	
Adam Callaghan	12.45	_Single and Multi-Objective Approaches to Evolutionary Reinforcement Learning_	
LUNCH 13.00 – 14.00			
Nawazish Ali	14.00	_Reinforcement Learning for Battery Management in Dairy Farming_	**Dr Enda Barrett**
Andreas Almqvist	14.15	_Design for Nature Connectedness_	
Sai Abinesh Natarajan	14.30	_Deep Learning and Synthetic Data Generation for Computer Vision_	
Kevlyn Stanly Kadamala	14.45	_Comparative Analysis of RL Algorithms with Transfer Learning for Cross-Building HVAC Optimisation_	
Xue Yang	15.00	_Agent-based Dynamic Thresholding for Anomaly Detection_	
Fitria Wulandari	15.15	_Genetic Programming with Synthetic Data for Interpretable Regression Modelling and Limited Data_	
BREAK 15.30 – 15.45			
Alexandru Martin Locodi	15.45	_Controlling The Game: A Look at Interesting Graph Topologies in Spatial Evolutionary Game Theory_	**Dr Patrick Mannion**
Kevin O'Brien	16.00	_Improving Explainability of AI and Machine Learning Algorithms_	
Gearóid Reilly	16.15	_Designing a Multiuser Virtual Reality Environment for People Living with Dementia_	

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Name	Tuesday 23rd May	Presentation Title	Chair
Aileen Kennedy	9.15	*Data Analysis and Integration of Marine Data*	**Dr Karl Mason**
Nabeela Mumtaz	9.30	*Epidemiology of Seasonal Influenza: Use of Mathematical Modeling and Bayesian Inference to Estimate the Disease Burden*	
Donal Kelly	9.45	*Navigating Noise: Evolutionary Search for Strategy in a Perturbable Environment*	
Hossein Khaleghy	10.00	*Modelling Electricity Consumption in Irish Dairy Farms Using Agent-Based Modelling*	
Irish Senthilkumar	10.15	*An Integrated Finite-Element and Agent-Based Model for Mechanosensitive Tumour Growth*	
Mian Ibad Ali Shah	10.30	*Rule-Based Multi-Agent System for Autonomous P2P Energy Trading in Dairy Farming*	
Mashal Khan	10.45	*Federated Learning*	
BREAK 11.00 – 11.15			
Aaron Flanagan	11.15	*A Comparative Analysis of Data Synthesis Techniques to Improve Classification Accuracy of Raman Spectroscopy Data*	**Dr Matthias Nickles**
Danny Diamond	11.30	*Tune Family Detection via Pattern-Based Similarity Metrics in the Session Corpus of Irish Traditional Music*	
Shubhajit Basak	11.45	*Contributions Towards 3D Synthetic Facial Data Generation and 3D Face Analysis with Weak Supervision*	
Muzhaffar Hazman	12.00	*Analysing User-Generated Multimodal Memes in an Online Social Media Domain*	
Raymond Conlin	12.15	*Approaches for Identifying Music Similarity*	
Rana Zeeshan	12.30	*Employing Blockchain and Artificial Intelligence to Innovate Sensitive Data Handling Practices in Mental Health Services*	
LUNCH 12.45 – 14.00			
Junlin Lu	14.00	*Preference Inference in Multi-Objective Reinforcement Learning*	**Prof Jim Duggan**
Evan O'Riordan	14.15	*The Emergence of Fairness from the Evolutionary Ultimatum Game*	
Mark Campbell	14.30	*Cardiac Rehab: Patient Experience Design Addressing Challenges, Opportunities, Education and Digital Interventions in the Patient Journey*	
Maziar Kanani	14.45	*Executable Design: AI Tools for Music*	