

School of Computer Science
Research Students' Public Presentations Schedule (V4.0)
9:40-17:00, 28 April 2025 Computer Science Building, Rooms CSB-1007 & CSB-1009

Monday, 28th April 2025

Sessions in Room CSB-1007				Sessions in Room CSB-1009			
Name	Day/Date	Presentation Titles	Chair	Name	Day/Date	Presentation Titles	Chair
9:40 Welcome Address – First Session Chair				9:40 Welcome Address – First Session Chair			
Alexandru Martin Locodi	09:45	Controlling the game: a look at interesting graph topologies in spatial evolutionary game theory	Dr Adrian Clear	Michael Duignan	09:45	Ransomware Detection using Machine Learning and Deep Learning	Prof Jim Duggan
Ethan Padden	10:00	The Effects of Representation Design and Quantum Principles in Evolutionary Algorithms		Kevin O'Brien	10:00	A framework for multi-agent algorithmic recourse in normal form games	
Evan O'Riordan	10:15	Dictator Game Trust Networks		Xue Yang	10:15	Demonstration-Guided Continual Reinforcement Learning in Dynamic Environments	
Hossein Khaleghy	10:30	Electricity Disaggregation in Dairy Farms Using Machine Learning Algorithms		Gearóid Reilly	10:30	Multi-user Activity Based Virtual Reality to facilitate social interaction for older adults with and without dementia	
Ilas Faiud	10:45	Modeling Solar PV Adoption in Ireland: An Agent-Based Modelling Approach		Maziar Kanani	10:45	Symbolic Dataset for Non-metric Iranian Classical Music	
Muhammad Adeel Hafeez	11:00	Depth Estimation for Autonomous Vehicles		Rana Zeeshan	11:00	Pursuit of Digital Innovation in Psychiatric Data-Handling Practices in Irish Mental Health Services	
Zixian Zhang	11:15	AI-Driven Approaches to Code Similarity Measurement		Kevlyn Stanly Kadamala	11:15	Enhancing HVAC Control Efficiency: Transfer Learning Approaches	
BREAK 11:30 - 11:45				BREAK 11:30 - 11:45			
Mashal Khan	11:45	Enhancing Trust and Reliability in Federated Learning through Resource Optimization and Data Quality Assurance	Dr Karl Mason	Dost Muhammad	11:45	Evaluating Explainable AI Methods for Medical Image Processing: How Can the Explainability Be Enhanced and Evaluated?	Dr Patrick Mannion
Seán Caulfield Curley	12:00	Microsimulation for Ireland		Eléa Thuilier	12:00	Virtual rehabilitation using Augmented Reality (AR) Exergames for Osteoporosis: a Clinical Trial	
Damian Wlodarczyk	12:15	Enhancing Traffic Rerouting in Disaster Scenarios Using Unmanned Aerial Vehicles: A Grammar-Guided Genetic Programming Approach		Malaika Mushtaq	12:15	Explainable Lightweight Neural Network Architectures	

Hazrat Bilal	12:30	Automated Retinal Disease Detection and Diagnosis		Adam Callaghan	12:30	Extending Evolution-Guided Policy Gradient Learning Into The Multi-Objective Domain	
Michael Gian Gonzales	12:45	On-Device Neural Speech Processing for Consumer Devices		Aaron Flanagan	12:45	Acquisition and Analysis of Raman Spectral Data	
Durre Zehra Syeda	13:00	Prediction and Longitudinal Visualisation of Malware Evolution Using Artificial Intelligence		Mian Ibad Ali Shah	13:00	Multi Agent Reinforcement Learning enabled Peer to Peer Energy Trading in Dairy Farms	
		LUNCH 13:15 – 14:00				LUNCH 13:15 – 14:00	
Kazim Hussain	14:00	Strategic Insights into AI Business Models: Examining the Application Framework Concept in the Irish Context	Dr James McDermott	Timothy Hanley	14:00	Synthesising Microsaccades in Time Events	Dr Bharathi Chakravarthi
Aseena Isik Gurhan	14:15	Redefining Novel DNA Functional Archetypes Through AI Design and Expanded Nucleotide Alphabets		Kouider Chadli	14:15	Responsible DevOps of Machine Learning Enabled Systems	
Alamgir Qazi	14:30	When retrieval outperforms generation: Dense evidence retrieval for scalable fake news detection		Nawazish Ali	14:30	Exploring Proximal Policy Optimization for Load Scheduling in Dairy Farms	
Allassan Tchangmena A Nken	14:45	Multi-Modal Federated Learning for Human Activity Recognition on Privacy Preserving Videos		Rodrigo Goncalves Leite	14:45	Knowledge Graph-Based Strategies for Smart Residential Microgrids	
Kavach Dheer	15:00	Transformer-Enhanced Collaborative Filtering for Next-Gen Recommendations		Muhammad Asad	15:00	Out-of-Distribution (OOD) Object Detection for Autonomous Vehicles	
		BREAK 15:15 – 15:30				BREAK 15:15 – 15:30	
Ayman Abaid	15:30	Deep Learning for Cardiovascular Medical Imaging	Dr Nazre Batool	Louise McCormack	15:30	Trustworthy Artificial Intelligence Evaluation	Dr Joe Lemley
Irish Senthilkumar	15:45	An agent-based artificial intelligence-driven 3D deformable cell framework to investigate mechanisms underlying mechanosensitive tumour growth		Umay Kulsoom	15:45	Explainable NLP for Clinical Text Analysis	
Iqra Nosheen	16:00	Virtual Reality for Robust Deep Learning in the Real World		Jonaid Shianifar	16:00	Multi-Objective Reinforcement Learning for Adaptive Robotic Arm Control	
POST-GRC GATHERING – SULT (COLLEGE BAR)							