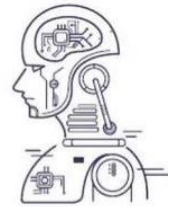


**7TH-9TH
JUNE 2023**

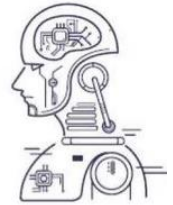


**Artificial Intelligence Conference
Swansea – Bay Campus – Computational Foundry
Ground Floor, Lecture Theatre 002**

Wednesday 7th June

When	All staff, students, partners
10:00	Welcome and Overview Prof Gert Aarts, Prof Arnold Beckmann & Prof Chengfeng Li
10:15	Will Robinson Paying Close Attention - Quadtree Vision Transformers in Medical Imaging
10:35	Prof Rajesh Ransing - Creating a Virtual Process Model (Digital Twin) from a Small In-Process Dataset with Mixed Variables and Missing Values
11:00	Break
11:30	Kristian Ions - Machine Learning Application to Predict Wave Height Dissipation Through Coastal Vegetation
11:50	Jamie Duell - Towards Explainable Artificial Intelligence: Batch-Integrated Gradients and Solutions to Missingness
12:10	Raul Stein - Exploring the Potential of Machine Learning for Neutrino Identification in the DUNE Trigger System
12:30	Lunch
Employability	
13:30	Adrian Tate (NAG): Employability in the AI age
14:00	Chris Cormac and Paul Coppin : Recruitment, what are the next steps?
14:20	Employability and Career Development panel discussion Q & A Chris Cormac, Adrian Tate, Gert Aarts and Kelly Jordan
15:00	Break
15:30	Chanju Park - Scalar field Restricted Boltzmann Machine as an ultraviolet regulator
15:50	Rhys Shaw - Radio Source Detection with Topological Data Analysis
16:10	Arron Lacey - Adoption of AI in Healthcare
16:30	Close

**7TH-9TH
JUNE 2023**

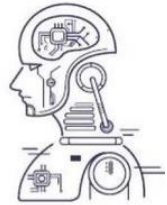


**Artificial Intelligence Conference
Swansea – Bay Campus – Computational Foundry
Ground Floor, Lecture Theatre 002**

Thursday 8thth June

When	All staff, students, partners	
9:30	Professor Yvonne McDermott Rees and Dr Alice Liefgreen Trust in User-generated Evidence (TRUE): Analysing the Impact of Deepfakes and Synthetic Media on Accountability Processes for Mass Human Rights Violations	
11:00	Break	
11:30	Natalia Sikora - Multi-objective de novo drug design for difficult drug targets. A solution for paediatric brain tumours?	
11:50	Cory Thomas - Using AI to explore breast cancer development	
12:10	Maciej Glowacki - Helping Britain achieve net zero	
12:30	Debbie Cooper from ONS: Employability /career development	
13:00	Lunch	
AI Governance and Policy		
14:00	Mike Thomas from Welsh Government	
14:30	AI Governance and Policy panel discussion Q & A: Kris Stoddart, Mike Thomas and Debbie Cooper	
15:00	Break	
15:30	Prof Rajesh Ransing & Phillip Pe - Learning to simulate fluid flow with Graph Networks Simulators (GNS).	
16:00	Prof Lewis Francis & Dr David James - Intelligent approaches in gynaecological cancers, training multiparametric data to inform disease understanding.	
16:30	Close	
For guests who are attending the dinner		
18:30	The Village Hotel	Arrival and Drinks
19:30	The Village Hotel	Dinner

**7TH-9TH
JUNE 2023**



**Artificial Intelligence Conference
Swansea – Bay Campus – Computational Foundry
Ground Floor, Lecture Theatre 002**

Friday 9th June	
When	All staff, students, partners
9:40	Sama Al-Shammari - Simulation-based inference of gravitational wave signals from black hole pairs towards addressing modelling systematics
10:00	Prakhar Sharma - Physics-Informed Neural Networks (PINNs) for Solving Forward and Inverse Thermal Problems
10:20	Alex Drysdale - Deep Residual Graph Convolutional Neural Network for Haemodynamic Metric Prediction in Large Vessel Networks
Employability and Career Development	
10:40	Simon Hands from DiRAC - Placements
11:00	Break
11:30	Kelly Jordan : Pathways to Entrepreneurship
12:00	Kelly Jordan : Student Entrepreneur journeys
12:30	Prof Gert Aarts to close the conference
13:00	Close