

IJCNN2023 PROGRAMATAAGLANCE INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS 18-23 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-23 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-24 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-25 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-26 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-27 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-27 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-28 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-28 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-29 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-29 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST CONVENTION AND EXHIBITION CENTRE, 18-20 IUNE 2023 | GOLD COAST COA

		SUNDAY, JUNE 18			
08:00	Tutorial: Explainable AI XAI for Computer Vision – A Review of Existing Methods and a New Method to Extract a Symbolic Model from a CNN model Hall 3	Tutorial: Ethical Risks and Challenges of Computational Intelligence Hall 4	Tutorial: Randomization in Neural Networks: Feed- forward and Reservoir Computing models Rooms 10-12		
10:00		Coffee Break Hall 1			
10:30	Paper Development Workshop	Tutorial: Foundation Models: A Sweeping Opportunity for Computer Vision Paper Development Workshop Hall 4			
12:30	Hall 3	Lunch On	Your Own		
13:30	Tutorial: Language and the Brain: Deep Learning for Brain Encoding and Decoding Hall 3	Tutorial: Collaborative Learning and Optimisation Hall 4	Tutorial: Graph Self-Supervised Learning: Taxonomy, Frontiers, and Applications Rooms 10-12		
15:30		Coffee Break Hall 1			
16:00	Tutorial: Recent Advancement on Federated Learning Combating Non-IID Data Hall 3	Tutorial: Trustworthy Federated Learning: Concepts, Methods, Applications, and Beyond Hall 4	Tutorial: Explaining Machine Learning Decisions Rooms 10-12		
18:00		Break			
18:30		Welcome Reception Hall 1			

	MONDAY, JUNE 19												
08:30	Plenary Xin Yao Arena 1B												
09:30							Coffee Break Hall 1						
10:00	Deep Learning Architecture: Part 1 Arena 1B	Neural Networks in Finance Arena 1A	Hybrid Learning Methods Foyer E	Knowledge Graphs Central Room B	Novel Feedforward Neural Networks Central Room C	Neural Networks in Physics and Mathematics Room 5	Generative Adversarial Networks Room 6	Special Session: Machine Learning and Deep Learning Methods applied to Vision and Robotics MLDLMVR: Part 1 Room 7	Special Session: Advanced artificial intelligence techniques for medical decision- making: challenges and opportunities Room 8	Virtual: Feature Selection, Extraction, and Aggregation	Virtual: Neural Networks for Image and Video Enhancement	Virtual: Text Summarisation and Classification	Virtual: Dialogue Systems and knowledge Discovery
12:00	Town Hall Luncheon must be registered Arena 2						Lunch On Your Own						
13:00	Event Extraction Using Neural Networks Arena 1B	Forecasting Using Neural Networks: Part 1 Arena 1A	Neural Networks for Image Classification: Part 1 Foyer E	Cognitive Architectures Central Room B	Probabilistic and Information- Theoretic Methods Central Room C	Brain-Inspired Architectures Room 5	Special Session: Machine Learning and Deep Learning Methods applied to Vision and Robotics MLDLMVR: Part 2 Room 6	Neural Network Hardware Room 7	Image Super- Resolution and Generation Room 8	Virtual: Deep Learning Architecture: Part 2	Virtual: Biomedical Applications of Neural Networks: Part 1	Virtual: Medical Image Processing Using Neural Networks	Virtual: Neural Networks for Object Detection: Part 1
15:00							Coffee Break Hall 1						
15:30	Plenary Barbara Webb Arena 1B												
16:30	Deep Learning Theory: Part 1 Arena 1B	Forecasting Using Neural Networks: Part 2 Arena 1A	Neural Networks for Image Classification: Part 2 Foyer E	Sentiment Analysis Using Neural Networks Central Room B	Neural Networks in Robotics Central Room C	Semantic Cognition and Language Room 5	Graph Matching with Neural Networks Room 6	Special Session: Machine Learning and Deep Learning Methods applied to Vision and Robotics MLDLMVR: Part 3 Room 7	Special Session: Deep Edge Intelligence Room 8	Virtual: Recommender Systems with Neural Networks: Part 1	Virtual: Classifiers: Part 1	Virtual: Neural Networks for Fault and Fraud Detection	Virtual: Event Extraction and Action Recognition
18:30		Mentor-		orking Event, m 5	Monday					Poster Sessior Hall 1	1		

		Tuesday, June 20											
08:30		Explainable Al Panel Arena 1B											
09:30							Coffee Break Hall 1						
10:00	Deep Learning Algorithms: Part 1 Arena 1B	Medical Image Recognition Using Neural Networks: Part 1 Arena 1A	Bioinformatics and Drug Discovery Foyer E	Neural Networks for Cyber Security: Part 1 Central Room B	Central Room C	Medical Data Processing with Neural Networks Room 5	Unsupervised Learning and Clustering: Part 1 Room 6	Special Session: Neuromorphic Computing for Cloud, Edge and loT Room 7	Special Session: Deep Learning for Anomaly Detection: Theory, Algorithms, and Applications Room 8	Virtual: Vision and Robotics with Neural Networks	Virtual: Natural Language Processing Using Neural Networks	Virtual: Recommender Systems with Neural Networks: Part 2	Virtual: Forecasting and Prediction
12:00						Lur	nch On Your O	wn					
13:00	Relation Extraction and Knowledge Distillation with Neural Networks Arena 1B	Large- Scale Neural Networks Arena 1A	Object and Defect Detection Using Neural Networks: Part 1 Foyer E	Neural Networks for Cyber Security: Part 2 Central Room B	Central Room C	Neural Networks for Video Processing: Part 1 Room 5	Unsupervised Learning and Clustering: Part 2 Room 6	Special Session: Recommender Systems, Digital Marketing and Consumer Behaviour Prediction Room 7	Deep Learning for Anomaly Detection Room 8	Virtual: Deep Learning Algorithms: Part 2	Virtual: Classifiers: Part 2	Virtual: Image Super- Resolution and Dehazing	Virtual: Sentiment and Emotion
15:00							Coffee Break Hall 1						
15:30						Ple	enary Marco G Arena 1B	3ori					
16:30	Feature Extraction: Part 1 Arena 1B	Medical Image Recognition Using Neural Networks: Part 2 Arena 1A	Neural Network Models: Part 1 Foyer E	Image Segmentation with Neural Networks Central Room B	Machine Learning Algorithms Central Room C	Neural Networks for Video Processing: Part 2 Room 5	Neural Networks for Data Classification: Part 1 Room 6	Special Session: Reservoir Computing: theory, models, and applications Room 7	Special Session: Domain Adaptation for Complex Situations: Theories, Algorithms and Applications Room 8	Virtual: Object and Defect Detection Using Neural Networks: Part 2	Virtual: Reinforcement Learning: Part 1	Virtual: Neural Network Applications in Security	Virtual: Biomedical Applications of Neural Networks: Part 2
18:30	Poster Session Hall 1					Competitions Area 1B							
19:30		XAI / AML Section Meeting Room 9											

	Wednesday, June 21												
08:30	Plenary Deliang Wang Arena 1B												
09:30							Coffee Break Hall 1						
10:00	Federated Learning Arena 1B	Health Risk Prediction and Medical Records Arena 1A	Smart Energy Network with Machine Learning Foyer E	Multi-Agent Reinforcement Learning: Part 1 Central Room B	Text Understanding and Analysis Using Neural Networks: Part 1 Central Room C	Neural Networks for Computer Vision: Part 1 Room 5	Neural Networks for Image Recognition Room 6	Special Session: The Coming of Age of Explainable AI XAI and Machine Learning Room 7	Special Session: Deep Learning for Graphs DL4G: Part 1 Room 8	Virtual: Neural Network Applications: Part 1	Virtual: Neural Network Models: Part 2	Virtual: Neural Networks for Video Processing: Part 3	Virtual: Transformers: Theory and Applications
12:00						Lur	nch On Your O	wn					
13:00	Emotion Recognition with Neural Networks Arena 1B	Meta-Learning and Ensembles Arena 1A	Time-Series Analysis Using Neural Networks Foyer E	Multi-Agent Reinforcement Learning: Part 2 Central Room B	Text Understanding and Analysis Using Neural Networks: Part 2 Central Room C	Neural Networks for Computer Vision: Part 2 Room 5	Neural Network Applications in Image and Data Processing Room 6	Neural Networks in Law and Tracking Room 7	Special Session: Deep Learning for Graphs DL4G: Part 2 Room 8	Virtual: Neural Network Training Strategies: Part 1	Virtual: Neural Networks for Security and Law	Virtual: Reinforcement Learning: Part 2	Virtual: Feature Extraction: Part 2
15:00							Coffee Break Hall 1						
15:30						Ple	nary Kenji Do Arena 1B	oya					
16:30	Domain Adaptation Arena 1B	Image Enhancement and Denoising with Neural Networks Arena 1A	Neural Networks for Prediction Foyer E	Image Re- Identification and Retrieval Central Room B	Transfer Learning and Optimization Central Room C	Recurrent neural networks and Models of Neurons Room 5	Neural Networks for Data Classification: Part 2 Room 6	Rumor Detection and Fault Diagnosis Room 7	Special Session: Federated Learning - Methods, Applications, Challenges, and beyond Room 8	Virtual: Neural Network Training Strategies: Part 2	Virtual: Image Processing with Neural Networks: Part 1	Virtual: Language Models and Cognitive Architectures	Virtual: Prediction and Control
18:30	Poster Session Hall 1												
19:30		Banquet and Award Ceremony Arena 2											

						Thu	rsday, Jun	e 22					
08:30	Plenary Nikola K. Kasabov Arena 1B												
09:30							Coffee Break Hall 1						
10:00	Neural Networks for Object Detection: Part 2 Arena 1B	Special Session: Randomization- Based Deep and Shallow Learning Algorithms and/ or Biomedical Applications Arena 1A	Question- and-Answer Systems: Part 1 Foyer E	Reinforcement Learning Algorithms: Part 1 Central Room B	Text Summarisation with Neural Networks Central Room C	Transformers: Part 1 Room 5	Neural Networks for Semantics: Part 1 Room 6	Neural Networks for Software Development Room 7	Special Session: Intelligent Vehicles and Transportation Systems IVTS Room 8	Virtual: Shape and Image Recognition	Virtual: Deep Learning Theory: Part 2	Virtual: Neural Networks for Pattern Recognition	Virtual: Neural Network Applications: Part 2
12:00						Lur	nch On Your O	wn					
13:00	Image Generation and Analysis Arena 1B	Neural Networks for Recommenda- tions: Part 1 Arena 1A	Question- and-Answer Systems: Part 2 Foyer E	Reinforcement Learning Algorithms: Part 2 Central Room B	Text Classification with Neural Networks: Part 1 Central Room C	Transformers: Part 2 Room 5	Neural Networks for Semantics: Part 2 Room 6	Training Techniques for Deep Neural Networks: Part 1 Room 7	Special Session: Lifelong Learning: recent advances and challenges Room 8	Virtual: Image Processing with Neural Networks: Part 2	Virtual: Robustness of Deep Neural Networks		
15:00	Coffee Break Hall 1												
15:30	Impacts of the NSF CAREER Award Panel Arena 1B												
16:30	Anomaly Detection Using Neural Networks Arena 1B	Neural Networks for Recommenda- tions: Part 2 Arena 1A	Explainable Al Foyer E	Spiking Neural Networks Central Room B	Text Classification with Neural Networks: Part 2 Central Room C	Neural Networks for Communi- cations Room 5	Reservoir Networks and Multi-Objective Learning Room 6	Training Techniques for Deep Neural Networks: Part 2 Room 7	Special Session: Social Network Computation for Online Intelligence Room 8				



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		FRIDAY, JUNE 23	
08:00	Workshop: Multimodal Synthetic Data for Deep Neural Networks (MSynD) Room 1	Workshop: Workshop on Trustworthy and Responsible AI: theory, applications, and challenges Room 2	Workshop: Autonomous Learning in Complex Decision Situations Room 3
10:00		Coffee Break Gallery	
10:30	Workshop: Multimodal Synthetic Data for Deep Neural Networks (MSynD) Continued Room 1	Workshop: Workshop on Trustworthy and Responsible AI: theory, applications, and challenges Continued Room 2	Workshop: Autonomous Learning in Complex Decision Situations Continued Room 3
12:30		Lunch on Your Own	
13:30	Workshop: Machine Learning, Artificial Intelligence and Neural Networks in Higher Education Workshop Room 1		Workshop: Interactive Explanations of Neural Networks and Artificial Intelligence (Int-XAI) Room 3
15:30		Coffee Break Gallery	
16:00	Workshop: Machine Learning, Artificial Intelligence and Neural Networks in Higher Education Workshop Continued Room 1		Workshop: Interactive Explanations of Neural Networks and Artificial Intelligence (Int-XAI) Continued Room 3
18:00		End of Conference	