New Zealand Workshop on Artificial Intelligence Research Programme

08:00-09:15	**Registration**
09:15-09:30	**Opening Comments -** Albert Bifet (University of Waikato)
09:30-10:30	**Session One**
09:30-09:35	1 Wai Yeap - A revolutionary AI approach, using robots, to unravel the mystery of the mind
09:36-09:41	2 James Atlas - Protocol and sensor software development for fracture healing
09:42-09:47	3 Varvara Vetrova - Deep learning: from fine-grained recognition to climate prediction
09:48-09:53	4 Helen Lu - Relative Valuation with Machine Learning
09:54-09:59	5 Paul Geertsema - Predicting the Cross-section of Long-run Expected Stock Returns with Machine Learning
10:00-10:05	6 Alvaro Orsi - AI reveals the role of temperature control in the kiwifruit cool chain
10:06-10:11	7 Te Taka Keegan - Indigenous Data Sovereignty
10:12-10:17	8 Bob Durrant - Structure from Randomness in Halfspace Learning with the Zero-One Loss-PAC Learning Guarantees when n < p.
10:18-10:23	9 Alex Gavryushkin - Opportunities for AI in evolutionary and systems biology
10:24-10:29	10 Thomas Li - 3D Lidar Deep Learning for Road - Finding Needle in a Haystack
10:30-11:00	**Morning Tea**
11:00-11:30	**Session Two**
11:00-11:05	11 Patricia Riddle - Adaptive Problem Solving
11:06-11:11	12 Michael Cree - Can conventional CNN structure & training methods learn actual neural visual processing seen in real biological systems?
11:12-11:17	13 Andreas W. Kempa-Liehr - On the Transition from Time Series Feature Engineering to the Engineering of Time Series
11:18-11:23	14 Albert Bifet - Adaptive Machine Learning for Data Streams
11:24-11:29	15 Yi Mei - AI for Automated Planning and Scheduling
11:30-12:30	**NZ AI Researchers Association presentation**
12:30-13:30	**Lunch Break (and Poster session)**
13:30-15:30	**Session Three**
13:30-13.35	16 Jesin James - Code-switching detection in te reo Māori and New Zealand English for speech technology development
13:36-13:41	17 Bernhard Pfahringer - A Decade of Classifier Chains for Multi-Label Classification
13:42-13:47	18 Mike Barley - Adaptive Problem Solving
13:48-13:53	19 Yun Sing Koh - Concept Drift Detection: Current Challenges
13:54-13:59	20 Harith Al-Sahaf - AI for Behaviour-based Analysis in Cybersecurity
14:00-14:05	21 Qi Chen - Learn More about Your Data: Symbolic Regression and Modelling with Statistical Learning
14:06-14:11	22 Xiaoying Gao - Multiple-view representation for text and its application in fake news detection
14:12-14:17	23 Jiamou Liu - Structural Entropy and Its Applications
14:18-14:23	24 Andrew Lensen - Explainable Unsupervised Learning Through Evolutionary Computation
14:24-14:29	25 Jaspreet Dhupia - AI techniques for fault monitoring, system model identification and controls
14:30-14:35	26 Michael Mayo - Some current medical AI projects at Waikato
14:36-14:41	27 Michael Winikoff - Towards Engineering Trustable Autonomous Systems
14:42-14:47	28 Eibe Frank - Dating Historical Images from the Hamilton City Libraries
14:48-14:53	29 Amanda Williamson - Using word embeddings to capture changes in text over time
14:54-14:59	30 Michael Witbrock - Learning to Combine Natural Language Understanding and Reasoning for Broader AI
15:00-15:05	31 Heitor Murilo Gomes - Machine learning for streaming data: state of the art, challenges, and opportunities
15:06-15:11	32 Bing Xue - Evolutionary Computation: Nature Inspired Artificial Intelligence Approaches
15:12-15:17	33 Hans Guesgen - Using Rough Sets to Improve Activity Recognition Based on Sensor Data
15:18-15:23	34 Giulio Valentino Dalla Riva - What we don't talk about when we talk about AI ethics
15:30-16:00	**Afternoon Tea (and Poster session)**
16:00-17:00	**NZ AI Researchers Association discussion**
17:00-17:15	**Closing Comments**