New Zealand Wireless Workshop 2024

Alan MacDiarmid Building, Room AM102 and Foyer

Kelburn Campus, Victoria University of Wellington

VICTORIA UNIVERSITY OF **WELLINGTON** TE HERENGA WAKA

TIME	Speaker	ORGANISATION	TITLE
8:30 AM	Registration		
9:15 AM	Pawel D. and Pete Smith	Victoria University of Wellington	Welcome and Opening
9:20 AM	Sudhir Singh	Callaghan Innovation	Time domain design of wideband beamformer - an inverse filtering approach
9:40 AM	Dylan Jorgensen	Qamcom	Sionna
9:50 AM	Matt Stewart	Comtest	Advanced wireless research and measurement solution technology
10:10 AM	Jeremy Verity	Wireless Design LTD	Radiated emission testing using open area test sites, GTEM cells and RF chambers
10:30 AM	Morning Tea		
11:00 AM	Robyn Kamira	Tū Ātea Limited	Tū Ātea Limited (Māori Spectrum & Telecommunications Services)
11:20 AM	Kevin Sowerby, Dev Singh	University of Auckland	The reputation game: building trust and collaboration in VIoT
11:40 AM	Graeme Woodward	University of Canterbury	Research Overview
12:00 PM	Rifat Afroz	Wireless Research Centre	Experimental verification of a dual-mode X-band FMCW harmonic radar operation
12:20 PM	Peter Smith	Victoria University of Wellington	Waiting for perfection in ISAC waveforms
12:40 PM	Lunch		
1:40 PM	Sujan Warnakulasooriya	University of Canterbury	Novel method for optimising initial flock formation time of N drones
1:50 PM	Zhouyu Qu	University of Canterbury	Coordination-Free Path Planning Algorithm on a Drone Road System
2:00 PM	Anastasia Verhovski	University of Canterbury	Integration of mmWave Radar into UAV Swarm-based Distributed Phased Array
2:10 PM	Amy Inwood	University of Canterbury	Level Crossing Rate Analysis for Optimal Single-user RIS Systems
2:20 PM	Mohammadreza Farashahi	Auckland University of Technology	Reconfigurable Intelligent Surface for Indoor Wireless Communications
2:30 PM	Biswash Paudel	Auckland University of Technology	Terahertz Antenna for Intra-Chip Wireless Communications
2:40 PM	Afternoon Tea		
3:10 PM	Rasika Kalahe Wattege	University of Auckland	Optimal Power and Receiver Interference Limits Aware Coexistence for 5G NR-U and Wi-Fi 6E
3:20 PM	Simone Mencarelli	University of Auckland	EM-Mechanical Codesign of SAR Antennas: Effect of Microvibrations on Sensor Performance
3:30 PM	Priya Qualtrough-Mittal	University of Auckland	Improving millimetre wave coverage in indoor environments using passive reflectors
3:40 PM	Oliver Kim	University of Auckland	Design Considerations for Small-Satellite SAR System for Maritime Activity Monitoring in NZ
3:50 PM	Hao Xu	Victoria University of Wellington	Auction-based Caching Algorithm for Popular and Fresh Content in IoT Networks
4:00 PM	Duncan Cameron	Victoria University of Wellington	ElasticWISP-NG: Towards Dynamic Resource Provisioning in Wireless ISP Access Networks
4:10 PM	Steve Cosgrove	Victoria University of Wellington	Wireless IOT Research with a TI Development Board
4:20 PM	Buddhima Amarthunga	Victoria University of Wellington	Exploring Effective Sensor Deployment Techniques for Dynamic Region of Interest
4:30 PM	Best Student Presentation Award and Closing		
5:00 PM	Post-Workshop Social Function		

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