

IEEE New Zealand Wireless Workshop 2018

Friday, 7th September 2018

AUT (City Campus), 6 St Paul Street
Lecture Theatre WZ416, Nga Wai Hono (WZ) Building

Time	Organisation	Speaker	Title
8:30 am	Registration and Coffee		
9:00 am	Opening by Professor Guy Littlefair, AUT Pro-Vice-Chancellor and Dean of DCT Faculty		
9:10 am	RF Test Solutions	Sophie Chen	How to make functional testing of your IOT device in 10 seconds
9:25 am	Qamcom	Ravi Chandra	Software-driven hardware design for fun and time-to-market
9:40 am	Huawei	Alex Fang	From 4.5 to 5G - RAN evolution perspective
9:55 am	InternetNZ	Sebastian Castro	An overview of InternetNZ
10:10 am	Northumbria Uni UK	Yue Cao	Enabling 5G opportunistic service relay and autonomous valet parking for urbanisation
10:30 am	Morning Tea (sponsored by RF Test Solutions)		
10:50 am	AUT	Tim Natusch	Lossless compression of data flows for wireless communications
11:10 am	UC	Graeme Woodward	Drones to the rescue: why a drone may one day save your life
11:30 am	Massey	Fakhrul Alam	Indoor localisation using existing lighting infrastructure
11:50 am	VUW	Pawel Dmochowski	Heterogeneity in multi-user channels: Results and observations
12:05 pm	Lunch (sponsored by Internet NZ)		
1:10 pm	UC	Adriel Kind	Optimal drone positioning for cellular beamforming
1:25 pm	UC	Barry Wu	Riding the WAVE
1:40 pm	UC	Anastasia Lavrenko	Localization and tracking of small moving targets with harmonic radar: challenges and perspectives
1:55 pm	MIT	Sayan Ray	Dynamic Spectrum Management in 5G: Lessons from Technological Breakthroughs in Unlicensed Bands Use
2:10 pm	Uni Malaysia Sabah/UoA	Kashif Nisar	Future Internet: Hybrid scheme of producer mobility in named data networking for the Internet of Things
2:25 pm	AUT	Maria Villapol	A sustainable connectivity model of internet access technologies in rural and low-income areas
2:40 pm	AUT	William Liu	IEEE VTS overview
2:50 pm	Afternoon Tea (sponsored by National Instruments)		
3:10 pm	VUW	Shuang Li	Analysis of analog and digital MRC for distributed and centralized MU-MIMO systems
3:20 pm	VUW	Chelsea Miler	Massive MIMO performance with Saleh-Valenzuela channel models
3:30 pm	UC	Dan Barry	UAV search behaviour for wireless transmitter detection
3:40 pm	UC	Nazir Ikhtiari	Radio navigation in denied GNSS environments
3:50 pm	Waikato	Neda Sharifi	Wireless stochastic control over externally manipulable molecular communications systems
4:00 pm	UoA	Suijth Ramachandran	Indoor wireless system performance at millimetre wave frequencies
4:10 pm	UoA/Huawei	Yuzhe Wang & Jianquan Liang	2T&4T cell evaluation using 4R capable devices
4:20 pm	AUT	Salman Naseer	A sustainable data dissemination framework using vehicular network in smart cities
4:30 pm	AUT	Xiaoyou Lin	Textile-based electromagnetic bandgap for wearable antennas
4:40 pm	AUT	Hazim Jarrah	A probabilistic comparison model for hybrid faults in dynamic networks
4:50 pm	AUT	Chris Rapson	Vehicle-to-vehicle networks using optical camera communication
5:10 pm	Best Student Presentation Award (sponsored by IEEE VTS NZ North Chapter)		
5:15 pm	Closing by Professor Peter Chong, AUT Head of Electrical and Electronic Engineering Department		



**WIRELESS INNOVATIONS
IN ENGINEERING
RESEARCH GROUP**