8:00 – 8:45	REGISTRATION
8:45 – 9:00	WELCOME MESSAGE/OPENING SPEECH
9:00 – 9:40	**KEYNOTE SPEECH 1**

Professor Soung Chang Liew, The Chinese University of Hong Kong, Hong Kong

What has Deep Learning got to do with Wireless Networking?

9:40 – 10:20	**KEYNOTE SPEECH 2**

Professor Tek Tjing Lie**,** Auckland University of Technology, New Zealand

Electricity Utility and Grid of the Future: Implementation, Technology, Regulations & Policy

10:20 – 10:40	MORNING TEA
10:40 –12:00	**Presentation Session 1**

Chair: Dr. Saeed Rehman

1. Temporary Internet Access for Authentication and Key Agreement for LTE Networks
Xue Jun Li[1], Maode Ma[2], and Jiecheng Xie[2] ([1]Auckland University of Technology, NZ; [2]Nanyang Technological University, Singapore)

2. A Smartphone and IoT-Assisted Post-Disaster Communication and Recovery Method
Md Akbar Hossain[1] and Sayan Kumur Ray[2] ([1]Auckland University of Technology, NZ; [2]Manukau Institute of Technology, NZ)

3. Heuristics-based Detection for Abnormal Energy Consumption
Ankur Sial[1], Amarjeet Singh[1], Aniket Mahanti[2], and Mingwei Gong[3] ([1]IIIT-Delhi, India; [2]University of Auckland, NZ; [3]Mount Royal University, Canada)

4. Real-time CPU Scheduling Approach for Mobile Edge Computing System
Xiaoyi Yu, Ke Wang, Wenliang Lin, and Zhongliang Deng (Beijing University of Posts and Telecommunications, China)

5. Optimal placement & sizing of DG & shunt capacitor for power loss minimization in an islanded distribution system
Mingu Kang and Ramon Zamora (Auckland University of Technology, NZ)

12:00 – 13:15	**LUNCH BREAK**
13:15 –3:00	**Presentation Session 2**

Chair: Dr. Hakilo Sabit

Invited Speaker 1
Professor Yong Liang Guan**,** Nanyang Technological University, Singapore
Applications of Temporal Network Coding in V2X Communications
Xiaoli Xu, Yumeng Gao, and Yong Liang Guan (Nanyang Technological University, Singapore)

1. *Blockchain based Energy Trading Model for Electric Vehicle Charging Schemes* (**Invited Paper**)
Chao Liu, Kok Keong Chai, Eng Tseng Lau, Yue Chen (Queen Mary University of London, UK)

2. *Energy-Efficiency Maximisation in Random Cognitive Radio Networks*
Saifur Rahman Sabuj[1], Md Akbar Hossain[2], and Edmund Lai[2] ([1]BRAC University, Bangladesh; [2]Auckland University of Technology, NZ)

3. *Opportunistic Fog Computing for 5G Radio Access Networks: A Position Paper*
Jofina Jijin and Boon-Chong Seet (Auckland University of Technology, NZ)

15:00 –15:15   **AFTERNOON TEA**

15:15 –17:00   **Presentation Session 3**

Chair: Dr. Ramon Zamora

Invited Speaker 2
Professor Ho-Pui Ho**,** The Chinese University of Hong Kong, Hong Kong
A wireless biosensor platform based on the lab-on-a-disc approach for point-of-care DNA screening applications
Minghui Tang, Yuye Wang, Jacky Fong-Chuen Loo, Siu-Kai Kong, Ho-Pui Ho (The Chinese University of Hong Kong, Hong Kong)

1. *A Sustainable Connectivity Model of the Internet Access Technologies in Rural and Low-Income Areas*
Maria E. Villapol, William Liu, Jairo Gutierrez, … (Auckland University of Technology, NZ)

2. *E-Mobility: smart grid and charging session of electric vehicles*
Gabriele Corzato[1], Luca Secco[2], Arslan Rasheed[3], Atulya Kumar Nagar[4], Emanuele Lindo Secco[4] ([1]University of Padova, Italy; [2]DriWe, Italy; [3]Auckland University of Technology, NZ; [4]Liverpool Hope University, UK)

3. *Optimizing Sliding Performance in iOS*
Qin Zhao, Qi Qi, Lejian Zhang, Qiwei Shen (Beijing University of Posts and Telecommunications, China)

4. *A Dialog Robot Based on WeChat*
Xiaoyi Chen, Jing Wang, Qiwei Shen, Qi Qi, Jingyu Wang (Beijing University of Posts and Telecommunications, China)

18:00   **CONFERENCE GALA DINNER**

8:30 – 9:00   REGISTRATION

9:00 – 9:40   **KEYNOTE SPEECH 3**

Professor Maode Ma, Nanyang Technological University, Singapore

Efficient and Secure Authentication Schemes for IEEE 802.11ah Networks

9:40 – 10:05   **Invited Speaker 3**

Professor Ivan Wang-Hei Ho, The Hong Kong Polytechnic University, Hong Kong
NO-V2X: Non-Orthogonal Multiple Access with Side Information for V2X Communications
Zhenhui Situ and Ivan Wang-Hei Ho (The Hong Kong Polytechnic University, Hong Kong)

10:05 – 10:25 MORNING TEA

10:25 –12:00   **Presentation Session 4**

Chair: Dr. Ivan Ho

1. *Connecting Makaraka – A Case Study for Rural Connectivity in New Zealand*
Syeda Kanwal Zaidi, Ali Abdul Adheem, Syed Faraz Hasan, and Xiang Gui (Massey University, NZ)

2. *A New Energy Efficient Big Data Dissemination Approach Using the Opportunistic D2D Communications*
Ambreen Memon[1], William Liu, and AdnanAl-Anbuky (Auckland University of Technology, NZ)

3. *Prediction of Electricity consumption for residential houses in New Zealand*
Aziz Ahmad[1], Timothy. N. Anderson[2], and Saeed Ur Rehman[2] ([1]Unitec Institute of Technology, NZ; [2]Auckland University of Technology, NZ)

4. *Physical-Layer Network Coding with High-order Modulations*
Xuesong Wang and Lu Lu (Chinese Academy of Sciences, China)

5. *Non-Orthogonal Multiple Access for Similar Channel Conditions*
Asim Anwar, Boon-Chong Seet, and Xue Jun Li (Auckland University of Technology, NZ)

12:00 – 13:15   **LUNCH BREAK**

13:15 –15:00   **Presentation Session 5**

Chair: Dr. Xuejun Li

1. *IoT Based Experimental Study to Modify Water Consumption Behavior of Domestic Users* (**Invited Paper**)
Aneeq-ur-Rehman[1], Reeba Raza[1], Naveed Ul Hassan[1], Yuren Zhou[2], Rui Liu[2],Benny Kai Kiat Ng[2] and Chau Yuen[2] ([1]Lahore University of Management Sciences, Pakistan; [2]Singapore University of Technology and Design, Singapore)

2. *A Sustainable Marriage of Telcos and Transp in the Era of Big Data: Are We Ready?* (**Invited Paper**)
Salman Naseer, William Liu, Nurul I Sarkar, … (Auckland University of Technology, NZ)

3. *Review of Cost Optimization of Electricity Supply by Using HOMER and A Case Study for A Big Commercial Customer in Brazilian Amazon Area*
Abdulrahim Hamed S Alghamdi, Carlos Henrique Marciano Rodrigues Castro, and Ramon Zamora (Auckland University of Technology, NZ)

4. *Efficient Fault Identification Protocol for Dynamic Topology Networks using Network Coding*
Hazim Jarrah, Peter H. J. Chong, Nurul I. Sarkar, Jairo Gutierrez (Auckland University of Technology, NZ)

15:00 –15:15   **AFTERNOON TEA**

15:15 –17:00   **Presentation Session 6**
Chair: Dr. Maode Ma

1. *Performance Evaluation of Handover Protocols in Software Defined Networking Environment*
Syed Faraz Hasan[2], , Shan Jaffry[2], , Yaw-Wen Kuo[1], and Xiang Gui[2], Dong-Ru Lee[1] ([1]National Chi Nan University, Taiwan; [2]Massey University, NZ)

2. *Dynamic Spectrum Management in 5G: Lessons from Technological Breakthroughs in Unlicensed Bands Use*
Fernando Beltrán[1], Sayan Kumar Ray[2], and Jairo Gutiérrez[3] ([1]University of Auckland, NZ; [2]Manukau Institute of Technology, NZ; [3]Auckland University of Technology, NZ)

3. *Dual Sensing Scheduling Algorithm for Wireless Sensor Network based Road Segment Surveillance*
Farhan Khan and Sing Kiong Nguang (University of Auckland, NZ)

4. *A Clique based Asymmetric Rendezvous Scheme for Cognitive Radio Ad-Hoc Networks*
Md Akbar Hossain and Nurul I Sarkar (Auckland University of Technology, NZ)

5. *The Blockchain Marketplace as the fifth type of electricity market*
Yueqiang Xu[1], Petri Ahokangas[1], Seppo Yrjölä[2], Timo Koivumäki[1] ([1]University of Oulu, Finland; [2]Nokia, Finland)

17:00 – 17:10   **Conference Closing Remark**