ICNC 2020 Brief Program Guide

IEEE computer society **ComSoc** IEEE Communications Society

Keynote Talks

Speaker: David Tse, Stanford University, USA
Title: Solving the Blockchain Trilemma
Time: 8:30-9:30, Monday, February 17, 2020

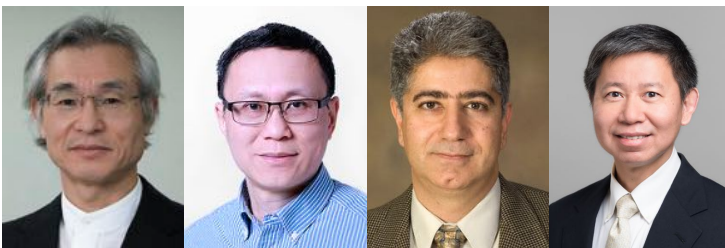**Speaker:** Jie Wu, Temple University
Title: Challenges and Opportunities in Algorithmic Solutions for ...
Time: 8:30-9:30, Tuesday, February 18, 2020

Speaker: Elisa Bertino, Purdue University, USA
Title: Security of 4G and 5G cellular networks
Time: 8:30-9:30, Wednesday, February 19, 2020

Speaker: Claire Tomlin, UC Berkeley, USA
Title: Safe Learning in Robotics
Time: 10:00-11:00, Wednesday, February 19, 2020

Speaker: Sherman Shen, University of Waterloo, Canada
Title: Reinforcement Learning for Resource Management in ...
Time: 8:30-9:30, Thursday, February 20, 2020
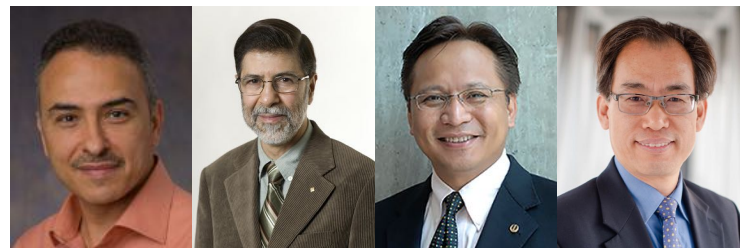
Plenary Talks

Speaker: Fumiyuki Adachi, Tohoku University, Japan
Title: Ultra-dense Radio Access Network for 5G Systems
Time: 13:30-14:30, Tuesday, February 18, 2020

Speaker: Jian Pei, Simon Fraser University, Canada
Title: Practicing the Art of Data Science
Time: 14:30-15:30, Tuesday, February 18, 2020

Speaker: Marwan Krunz, The University of Arizona, USA
Title: ML Techniques for Fast Protocol Adaptation in WNs
Time: 13:30-14:30, Wednesday, February 19, 2020

Speaker: Baochun Li, University of Toronto, Canada
Title: Federated Learning: Challenges and Opportunities
Time: 14:30-15:30, Wednesday, February 19, 2020

Distinguished Lectures

Speaker: Hassam Hassanein, Queen's University, Canada
Title: Towards Provisioning Vehicle-Based Information Services
Time: 10:00-12:00, Monday, February 17, 2020

Speaker: Hussein T. Mouftah, Ottawa University, Canada
Title: Technology Trends for Connected and Autonomous...
Time: 13:30-15:30, Monday, February 17, 2020

Speaker: Moe Win, MIT, USA
Title: Localization of Things
Time: 16:00-18:00, Monday, February 17, 2020

Speaker: Min Song, Stevens Institute of Technology, USA
Title: New Algorithms Enabling On-Demand Dynamic Spectrum...
Time: 10:00-12:00, Thursday, February 20, 2020

Invited Short Talks

Speaker: Ender Ayanoglu, University of California, Irvine, USA
Title: Massive MIMO with Spatially Correlated Antennas
Time: 10:00 - 10:30, Tuesday, February 18, 2020

Speaker: Michele Zorzi, University of Padova, Italy
Title: Satellite Communication at Millimeter Waves: a Key ...
Time: 10:30-11:00, Tuesday, February 18, 2020

Speaker: Marco Ajmone Marsan, Politecnico di Torino, Italy
Title: Effective Use of Small Cells in Heterogeneous RANs
Time: 11:00-11:30, Tuesday, February 18, 2020
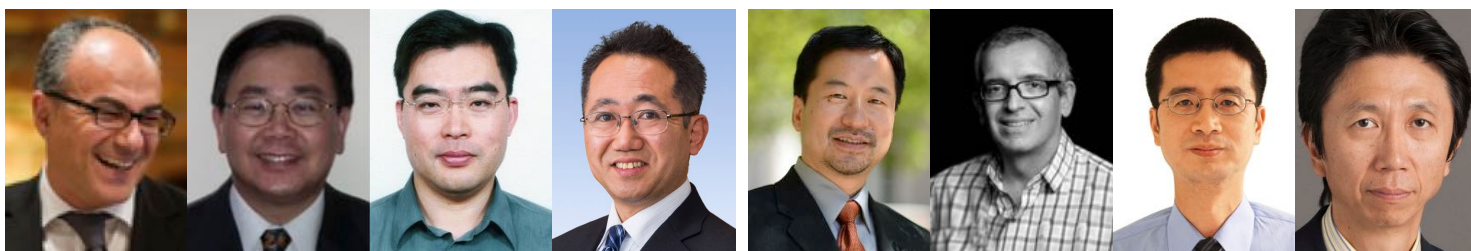
Speaker: Rose Qingyang Hu, Utah State University, USA
Title: ML Aided Mobile Edge Computing in Blockchain Based...
Time: 11:30-12:00, Tuesday, February 18, 2020

Speaker: Li-Chun Wang, National Chiao Tung University, Taiwan
Title: Interference Management for Future Cellular Mobile ...
Time: 10:00-10:30, Tuesday, February 18, 2020

Speaker: Yi Qian, University of Nebraska-Lincoln, USA
Title: Smart Service-Aware Wireless Networks
Time: 10:30 - 11:00, Tuesday, February 18, 2020

Speaker: Ling Liu, Georgia Institute of Technology, USA
Title: Cross-Layer Strategic Ensemble Defense ...
Time: 11:00 - 11:30, Tuesday, February 18, 2020

Speaker: Tommaso Melodia, Northeastern University, USA
Title: Toward a unified framework for wireless network slicing
Time: 11:30 - 12:00, Tuesday, February 18, 2020

Speaker: Schahram Dustdar, TU Wien, Austria
Title: Edge Intelligence - Edge Computing and AI
Time: 16:00-16:30, Tuesday, February 18, 2020

Speaker: Victor C.M. Leung, U. of British Columbia, Canada
Title: AIoT as a Service - Opportunities and Challenges
Time: 16:30-17:00, Tuesday, February 18, 2020

Speaker: Ying-Dar Lin, National Chiao Tung University, Taiwan
Title: 5G Mobile Edge Computing: Research Roadmap on ...
Time: 17:00-17:30, Tuesday, February 18, 2020

Speaker: Eiji Oki, Kyoto University, Japan
Title: Resource Allocation in Middleboxes
Time: 17:30-18:00, Tuesday, February 18, 2020

Speaker: Shiwen Mao, Auburn University, USA
Title: RFID based Vital Sign Sensing and Its Application to ...
Time: 16:00-16:30, Tuesday, February 18, 2020

Speaker: Luiz Da Silva, Trinity College Dublin
Title: On the Connectivity of Drones to Mobile Networks
Time: 16:30-17:00, Tuesday, February 18, 2020

Speaker: Xinwen Fu, University of Massachusetts Lowell
Title: A Unified End-to-end View of IoT Security and Privacy
Time: 17:00-17:30, Tuesday, February 18, 2020

Speaker: Naoaki Yamanaka, Keio University, Japan
Title: 5G network application: Intelligent route and schedule ...
Time: 17:30-18:00, Tuesday, February 18, 2020

Speaker: Zhu Han, University of Houston, USA
Title: UAV Applications over Cellular Networks: Sensing ...
Time: 16:00 - 16:30, Wednesday, February 19, 2020

Speaker: Zhizhang Chen, Dalhousie University, Canada
Title: Recent Progress on the Wireless Power Harvesting and ...
Time: 10:00-10:30, Thursday, February 20, 2020

Speaker: Jelena Misic, Ryerson University, Canada
Title: P2P Network Issues in a Blockchain-based Ledger
Time: 16:30-17:00, Wednesday, February 19, 2020

Speaker: Jie Wang, University of Massachusetts, Lowell, USA
Title: AI-Assisted Text Mining and Document Engineering to ...
Time: 17:00-17:30, Wednesday, February 19, 2020

Speaker: Hamid Sharif, University of Nebraska-Lincoln, USA
Title: Study of a Unified High-Speed Wireless Communications ...
Time: 17:30-18:00, Wednesday, February 19, 2020

Speaker: Falko Dressler, University of Paderborn, Germany
Title: Integrating Haptic Signals with V2X-based Safety ...
Time: 10:30-11:00, Thursday, February 20, 2020

Speaker: Hui Li, Xidian University, China
Title: Evaluating Location Trace Privacy and Aggregation-based ...
Time: 11:00-11:30, Thursday, February 20, 2020

Speaker: Yonggang Wen, NT University, Singapore
Title: DCWiz: Transforming Data Center Operations and ...
Time: 11:30-12:00, Thursday, February 20, 2020

Speaker: Panos Nasiopoulos, U. of British Columbia, Canada
Title: A Quest for the perfect picture: Recreating the "Holodeck"
Time: 13:30-14:00, Thursday, February 20, 2020

Speaker: Abdulmotaleb El Saddik, University of Ottawa, Canada
Title: Meeting the digital Twin: Multimedia Convergence for ...
Time: 14:00-14:30, Thursday, February 20, 2020

Speaker: Lee Swindlehurst, University of California, Irvine, USA
Title: Spatial Sigma-Delta ADCs: A Low Complexity ...
Time: 14:30-15:00, Thursday, February 20, 2020

Speaker: Manos M. Tentzeris, Georgia Tech, USA
Title: 4D-Printed "Zero-Power" Wireless Systems: A Quantum ...
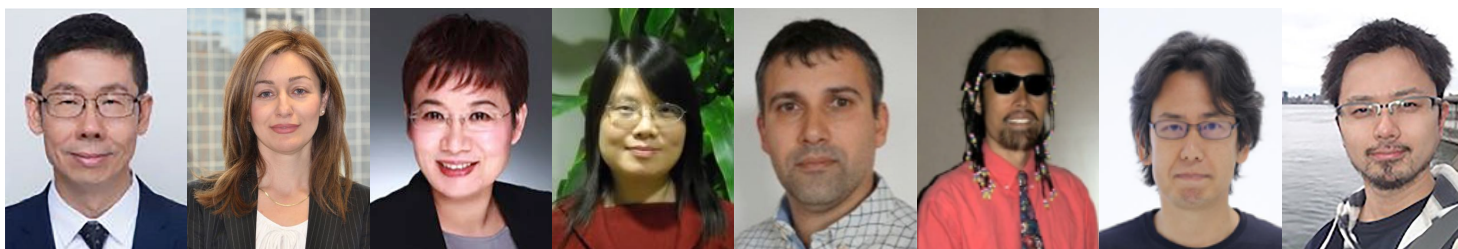**Time:** 15:00-15:30, Thursday, February 20, 2020

Speaker: Yu Cheng, Illinois Institute of Technology, USA
Title: Machine Learning Meets Wireless Network Optimization: ...
Time: 16:00-16:30, Thursday, February 20, 2020

Speaker: Takehiro Moriya, NTT Labs, Japan
Title: 3GPP IVAS: standardization and applications to 5G and ...
Time: 16:30-17:00, Thursday, February 20, 2020

Speaker: Honggang Wang, UMass Dartmouth, USA
Title: Towards Smart and Secure Connected Health
Time: 17:00-17:30, Thursday, February 20, 2020

Speaker: Michele Zorzi, University of Padova, Italy
Title: Scalable and Accurate Modeling of the Millimeter Wave ...
Time: 17:30-18:00, Thursday, February 20, 2020

Industry Forums

AI for Future Communication Networks and Services
Moderator: Haris Gacanin, Nokia Bell Labs, Belgium
Time: 10:00 - 12:00, Wednesday, February 19, 2020

Speakers:
Jin Yang, Chief Scientist/S. Director, Com. Systems and Services, USA.
Irena Atov, Principal Architect, Microsoft, USA.
Sumei Sun, Head, Institute for Infocomm Research, Singapore
Ying Li, Research Scientist, Facebook, USA.

The Future of Human-Machine Interaction at Home
Moderator: Haohong Wang, TCL Research America, USA.
Time: 16:00 - 18:00, Wednesday, February 19, 2020

Speakers:
Akihiko K. Sugiyama, Project Researcher, Yahoo Japan, Japan
Masahito Togami, Senior Researcher, Line Corporation, Japan
Yotaro Kubo, Research Scientist, Google, Japan.

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Big Island, Hawaii, USA
February 17-20, 2020

Time/Day	Monday (February 17)					Tuesday (February 18)				
	Keauhou II	Keauhou III	Keauhou IV	Mauna Kea	Mauna Loa	Keauhou II	Keauhou III	Keauhou IV	Mauna Kea	Mauna Loa
8:20 – 8:30						Opening Remarks				
8:30 – 9:30	Keynote: **David Tse,** Standford University, USA					Keynote: **Jie Wu**, Temple University				
9:30 – 10:00	Coffee Break									
10:00 - 12:00	Distinguished Lecture I: **H. Hassanein**	CNC I	CNC II	CNC III	CNC IV	Invited Talks I	Invited Talks II	CIS I	CLD	WN I
12:00 – 13:30	Lunch									
13:30 – 15:30	Distinguished Lecture II: **H. T. Mouftah**	CNC V	CNC VI	CNC VII	CNC VIII	Plenary: **Fumiyuki Adachi**, Tohoku University, Japan **Jian Pei**, Simon Fraser University, Canada				
15:30 – 16:00	Coffee Break									
16:00 – 18:00	Distinguished Lecture III: **Moe Win**	CNC IX	CNC X	CNC XI		Invited Talks III	Invited Talks IV	CIS II	CQSM	WN II
19:00 – 21:00						Welcome Reception (Keauhou I)				

Time/Day	Wednesday (February 19)					Thursday (February 20)				
	Keauhou II	Keauhou III	Keauhou IV	Mauna Kea	Mauna Loa	Keauhou II	Keauhou III	Keauhou IV	Mauna Kea	Mauna Loa
8:30 – 9:30	Keynote: **Elisa Bertino**, Purdue University, USA					Keynote: **Sherman Shen**, University of Waterloo, Canada				
9:30 – 10:00	Coffee Break									
10:00 - 12:00	Keynote: **Claire Tomlin**, UC Berkeley, USA				Industry Forum	Distinguished Lecture IV: **Min Son**	Invited Talk VI	MLCN II	GCNC/ISA	SPC I
12:00 – 13:30	Lunch									
13:30 – 15:30	Plenary: **Marwan Krunz**, The University of Arizona, USA **Baochun Li**, University of Toronto, Canada					Invited Talk VII	MCC	SCSD I	WC I	SPC II
15:30 – 16:00	Coffee Break									
16:00 – 18:00	Industry Forum	Invited Talk V	MLCN I	ISA	NAPE	Invited Talk VIII	WAHS	SCSD II	WC II	SPC III
19:00 – 21:00	Banquet & Award Ceremony (Keauhou I)									

Registration Desk Hours

Monday (February 17): 8:00 - 16:00   Wednesday (February 19): 8:00 - 16:00
Tuesday (February 18): 8:00 - 16:00   Thursday (February 20): 8:00 - 12:00

http://www.conf-icnc.org/2020