



ICNC 2025 Highlight



Keynote Speakers



Speaker: Alan Bovik
Title: Secrets of Video Quality
Time: 8:30 am - 9:30 am, Monday, February 17, 2025

Speaker: Chang Wen Chen
Title: Contemporary Visual Computing for 6G Semantic Com.
Time: 8:30 am - 9:30 am, Tuesday, February 18, 2025

Speaker: Kaushik Rajashekara
Title: Challenges and future trends in electrification of transportation
Time: 8:30 am - 9:30 am, Wednesday, February 19, 2025

Speaker: Masayuki Ariyoshi, Nei Kato
Title: Creating Values through Space Integrated Networks towards 6G
Time: 8:30 am - 9:30 am, Thursday, February 20, 2025

Plenary Talks



Speaker: Zhu Han
Title: Hybrid Quantum-Classical Computing for Future Network...
Time: 1:30 pm - 2:30 pm, Thursday, February 20, 2025

Speaker: Vincent Poor
Title: Integrated Sensing and Communications: Tradeoffs and Designs
Time: 1:30 pm - 2:30 pm, Tuesday, February 18, 2025

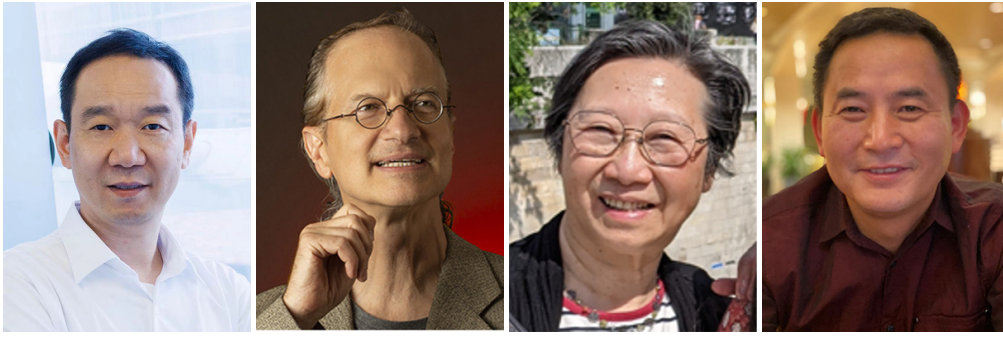
Speaker: Marco Di Renzo
Title: Stacked Intelligent Metasurfaces: Communication, ...
Time: 2:30 pm - 3:30 pm, Thursday, February 20, 2025

Speaker: Matthew Valenti
Title: Building a Secure 6G
Time: 2:30 pm - 3:30 pm, Wednesday, February 19, 2025

Speaker: Jie Wu
Title: On Optimal Offloading of DNNs from IoTs to Cloud
Time: 1:30 pm - 2:30 pm, Wednesday, February 19, 2025

Speaker: Liuqing Yang
Title: Collaborative Edge Computing in Low-Altitude Vehicular Networks
Time: 2:30 pm - 3:30 pm, Tuesday, February 18, 2025

Distinguished Lectures



Speaker: Song Guo
Title: Towards Edge-Native Foundation Models: A Paradigm Shift...
Time: 4:00 pm - 5:00 pm, Monday, February 19, 2025

Speaker: David W. Matolak
Title: Recent Results on the Road to Assured Aviation Comm.
Time: 10:00 am - 11:00 am, Monday, February 19, 2025

Speaker: Yi Lu Murphey
Title: Development of DM and ML Methodologies of Drivers' ...
Time: 11:00 am - 12:00 pm, Monday, February 19, 2025

Speaker: Honggang Wang
Title: A Neural Network Model for Autonomous Vehicles Safety Check
Time: 5:00 pm - 6:00 pm, Monday, February 19, 2025

Invited Talks



Speaker: Fumiyuki Adachi
Title: Optical & Wireless Integrated Reconfigurable User-centric ...
Time: 10:00 am - 10:30 am, Tuesday, February 18, 2025

Speaker: Yu Cheng
Title: Optimizing the Age of Information in CSMA Networks
Time: 10:30 am - 11:00 am, Tuesday, February 18, 2025

Speaker: Xinwen Fu
Title: Building Automation System Security
Time: 11:00 am - 11:30 am, Tuesday, February 18, 2025

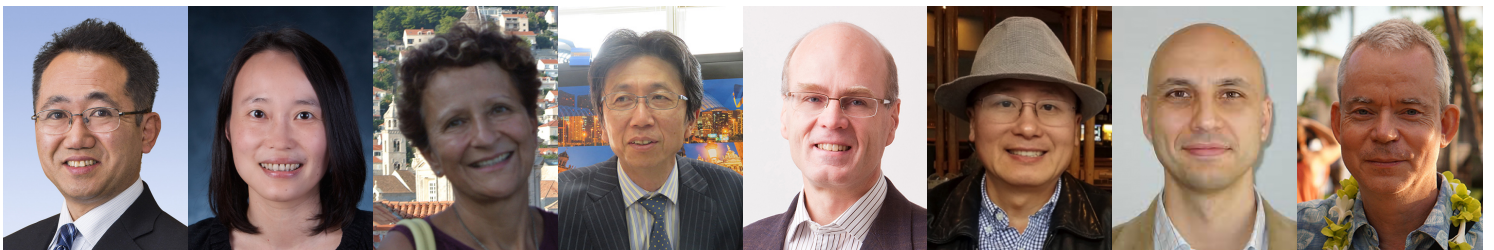
Speaker: Azzedine Boukerche
Title: Leveraging Urban Computing with Smart Internet of Drones...
Time: 11:30 am - 12:00 pm, Tuesday, February 18, 2025

Speaker: Ping Ji
Title: Challenges of Network Forensics
Time: 4:00 pm - 4:30 pm, Tuesday, February 18, 2025

Speaker: Shiwen Mao
Title: Generative AI for 3D Human Pose Completion Under RFID ...
Time: 4:30 pm - 5:00 pm, Tuesday, February 18, 2025

Speaker: Song Ci
Title: Building a Digital Power Computer for Green 6G
Time: 5:00 pm - 5:30 pm, Tuesday, February 18, 2025

Speaker: Ender Ayanoglu
Title: Received Power Maximization for Discrete-Phase RISs ...
Time: 5:30 pm - 6:00 pm, Tuesday, February 18, 2025



Speaker: Eiji Oki – Invited Talk III
Title: Expanding Optical-Circuit-Switching Multi-Stage ...
Time: 10:00 am - 10:30 am, Wednesday, February 19, 2025

Speaker: Björn Ottersten – Invited Talk IV
Title: Low-Earth orbit satellite constellations towards global ...
Time: 10:00 am - 10:30 am, Wednesday, February 19, 2025

Speaker: Min Chen – Invited Talk III
Title: Perceptual Scale and Toolset for Endangered Language ...
Time: 10:30 am - 11:00 am, Wednesday, February 19, 2025

Speaker: Jelena Masic – Invited Talk III
Title: Scalable quantum based solutions for Blockchain Systems
Time: 11:00 am - 11:30 am, Wednesday, February 19, 2025

Speaker: Naoaki Yamanaka – Invited Talk III
Title: Very-low-delay massive wavelength division multiplexed...
Time: 11:30 am - 12:00 pm, Wednesday, February 19, 2025

Speaker: Jie Wang – Invited Talk IV
Title: Use AI to Assist In-Depth Paper Reading and Understanding
Time: 10:30 am - 11:00 am, Wednesday, February 19, 2025

Speaker: Andrea Zanella – Invited Talk IV
Title: Goal-Oriented Communication and Control in CPSs
Time: 11:00 am - 11:30 am, Wednesday, February 19, 2025

Speaker: Anders Høst-Madsen – Invited Talk IV
Title: Fundamental tradeoffs between delay and energy in WCs
Time: 11:30 am - 12:00 pm, Wednesday, February 19, 2025



Speaker: Danijela Cabric
Title: Spectrum Sharing Approaches for Cellular WNs in FR3 ...
Time: 4:00 pm - 4:30 pm, Wednesday, February 19, 2025

Speaker: Thomas Magedanz
Title: Getting your hands on 6G – Emerging 6G Research ...
Time: 4:30 pm - 5:00 pm, Wednesday, February 19, 2025

Speaker: Zhu Li
Title: Point Cloud Compression, Super-Resolving and Deblocking
Time: 5:00 pm - 5:30 pm, Wednesday, February 19, 2025

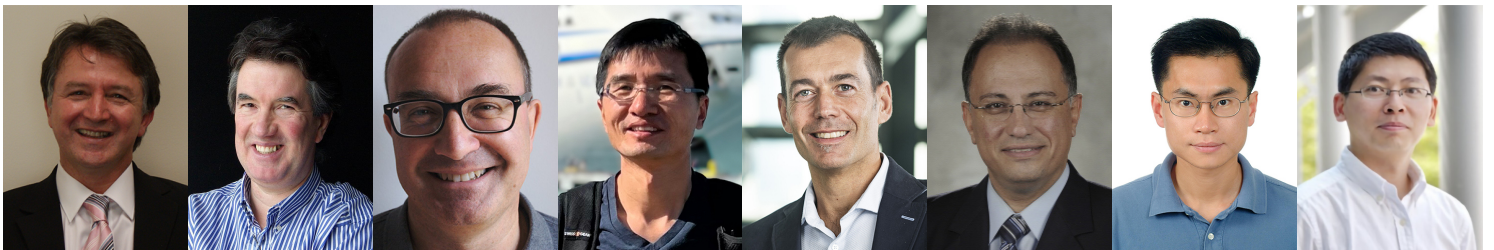
Speaker: Sung-Ju Lee
Title: FL in Mental Health: Unlocking Linguistic Insights on...
Time: 5:30 pm - 6:00 pm, Wednesday, February 19, 2025

Speaker: Lee Swindlehurst – Invited Talk VI
Title: Joint DOA and Parametric Near-Field Blockage Estimation
Time: 10:00 am - 10:30 am, Thursday, February 20, 2025

Speaker: Victor Leung – Invited Talk VI
Title: Collaborative Fault Diagnosis with Decentralized...
Time: 10:30 am - 11:00 am, Thursday, February 20, 2025

Speaker: Haohong Wang – Invited Talk VI
Title: Redefining Filmmaking: The Power of AI and Digital ...
Time: 11:00 am - 11:30 am, Thursday, February 20, 2025

Speaker: Chin-Tser Huang – Invited Talk VI
Title: Cryptographic Shuffling for Enhancing Relational Database...
Time: 11:30 am - 12:00 pm, Thursday, February 20, 2025



Speaker: Panos Nasiopoulos – Invited Talk VII
Title: Navigating Urban Gridlock: An RT Street Parking ...
Time: 10:00 am - 10:30 am, Thursday, February 20, 2025

Speaker: Dirk Slock – Invited Talk VII
Title: SemiBlind Channel Estimation in Cell-Free Massive MIMO
Time: 10:30 am - 11:00 am, Thursday, February 20, 2025

Speaker: Michele Zorzi – Invited Talk VII
Title: On the Simulation & Evaluation of Non-Terrestrial Networks
Time: 11:00 am - 11:30 am, Thursday, February 20, 2025

Speaker: Qiang Ye – Invited Talk VII
Title: Adversarial Attacks and Defences for IDSs
Time: 11:30 am - 12:00 pm, Thursday, February 20, 2025

Speaker: Emilio Calvanese Strinati
Title: Challenges and Opportunities for Multi-User Semantic Com.
Time: 4:00 pm - 4:30 pm, Thursday, February 20, 2025

Speaker: Manos M. Tentzeris
Title: Zero-Power Additively Manufactured FHE-Enabled...
Time: 4:30 pm - 5:00 pm, Thursday, February 20, 2025

Speaker: Guan-Ming Su
Title: Gaussian Splatting: State-of-The-Art and Future Trends
Time: 5:00 pm - 5:30 pm, Thursday, February 20, 2025

Speaker: Jianquan Liu
Title: An Industry Perspective: Video Analytics meets GAI
Time: 5:30 pm - 6:00 pm, Thursday, February 20, 2025

ICNC 2025 Program-at-a-Glance

Honolulu, Hawaii, USA

February 17-20, 2025

| Time/Day | Monday (February 17) | | | | | Tuesday (February 18) | | | | |
|-------------|--|-----------|------------|--------------|---------------------|--|-----------|---------------|--------------|----------------------|
| Room | Stingray | Bluefin I | Bluefin II | Yellowtail I | Yellowtail II | Stingray | Bluefin I | Bluefin II | Yellowtail I | Yellowtail II |
| 8:20-8:30 | Opening Remarks | | | | | | | | | |
| 8:30-9:30 | Keynote: Alan Bovik University of Texas at Austin, USA | | | | | Keynote: Chang Wen Chen The Hong Kong Polytechnic University, Hong Kong | | | | |
| 9:30-10:00 | Coffee Break | | | | | | | | | |
| 10:00-12:00 | Dist. Lectures: David W. Matolak Yi Lu Murphey | CNS I | CNS II | CNS III | CNS IV | Invited Talks I | AMCN I | CIS I | ECB I | MCC |
| 12:00-13:30 | Lunch (on attendees' own) | | | | | | | | | |
| 13:30-15:30 | CNS V | CNS VI | CNS VII | CNS VIII | CNS IX | Plenary: H. Vincent Poor , Princeton University, USA Liuqing Yang , The Hong Kong UST-Guangzhou, China | | | | |
| 15:30-16:00 | Coffee Break | | | | | | | | | |
| 16:00-18:00 | Dist. Lectures Song Guo Honggang Wang | CNS X | CNS XI | CNS XII | CNS XIII | Invited Talks II | AMCN II | CIS II | ECB II | SCDM |
| 19:00-21:00 | | | | | | Welcome Reception (Alohilani) | | | | |
| Time/Day | Wednesday (February 19) | | | | | Thursday (February 20) | | | | |
| Room | Stingray | Bluefin I | Bluefin II | Yellowtail I | Yellowtail II | Stingray | Bluefin I | Bluefin II | Yellowtail I | Yellowtail II |
| 8:30-9:30 | Keynote: Kaushik Rajashekara University of Houston, USA | | | | | Keynote: Masayuki Ariyoshi, Nei Kato Tohoku University, Japan | | | | |
| 9:30-10:00 | Coffee Break | | | | | | | | | |
| 10:00-12:00 | Invited Talks III | AMCN III | ML I | NGNI I | Invited Talks IV | Invited Talks VI | AMCN V | WC I | NAPE | Invited Talks VII |
| 12:00-13:30 | Lunch (on attendees' own) | | | | | | | | | |
| 13:30-15:30 | Plenary: Jie Wu , Temple University, USA Matthew Valenti , West Virginia University, USA | | | | | Plenary: Zhu Han , University of Houston, USA Marco Di Renzo , Paris-Saclay University, France | | | | |
| 15:30-16:00 | Coffee Break | | | | | | | | | |
| 16:00-18:00 | Invited Talks V | AMCN IV | ML II | NGNI II | NGNI III | Invited Talks VIII | WASN | WC II WASN | OGN MWN | SPC |
| 19:00-21:00 | Banquet & Award Ceremony (Stingray) | | | | | | | | | |

Registration Desk Hours

Monday (February 17): 8:00-12:00 14:00-16:00

Tuesday (February 18): 8:00-12:00 14:00-16:00

Wednesday (February 19): 8:00-12:00 14:00-16:00

Thursday (February 20): 8:00-11:00



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<http://www.conf-icnc.org/2025>