

◆ Research Interests

B5G/6G Communications, Edge Intelligence/AI, Fog/Edge Computing, AIoT

◆ Education

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| Ph.D. | - Dept. of CSIE, National Taiwan University, Taiwan
Graduation academic ranking: 1 / 12 |
| M.S. | - Dept. of CSIE, National Taiwan University, Taiwan
Graduation academic ranking: 7 / 142 |
| B.S. | - Dept. of CS, National Tsing Hua University, Taiwan
Graduation academic ranking: 4 / 114 |

◆ Experience

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|----------------------|---|----------------------------|
| Assistant Professor | - Dept. of CS, National Tsing Hua University, Taiwan | 2022 — Present |
| Visiting Scholar | - Dept. of ECE, University of California, Davis, USA
- Host: Prof. Junshan Zhang (Fellow of IEEE) | 2022 (Jun.-Aug.) |
| Postdoctoral Scholar | - CITI, Academia Sinica, Taiwan
PI: Prof. Chih-Yu Wang | 2018 — 2022 |
| Research Assistant | - CITI, Academia Sinica, Taiwan
PI: Prof. Wei-Ho Chung
PI: Prof. Tei-Wei Kuo (Fellow of IEEE) | 2017 — 2018
2015 — 2016 |
| Visiting Scholar | - School of ECEE, Arizona State University, USA
Host: Prof. Junshan Zhang (Fellow of IEEE) | 2016 — 2017 |
| Lecturer | - TIGP, Academia Sinica, Taiwan
Python Programming Course (English)
- Industrial Technology Research Institute, Taiwan
Machine Learning Course | 2019 — Present
2021 |

◆ Brief Summary

Dr. Chiu has published more than **30 research papers** in IEEE/ACM international conferences and journals. Among these papers, journal papers were mainly published in impactful Q1 journals such as **IEEE TSC**, **IEEE TWC**, **IEEE TMC**, **IEEE IoT Journal**, **IEEE Network**, **IEEE WCM**. Moreover, conference papers were published in IEEE flagship conferences (e.g., **ACM/IEEE ICDCS**, **IEEE ICC**, **IEEE GLOBECOM**, **IEEE ICRA**, **IEEE IROS**, etc.).

Dr. Chiu has participated in many international academic and industrial projects for B5G/6G, fog/edge computing, edge intelligence/AI. Dr. Chiu has joined several industrial projects with famous companies such as **Qualcomm**, **Intel**, and **OmniEyes startup** to realize his research in commercialized products.

8 Q1 journal papers (First/corresponding author – 4, Top 5% – 7), 26 IEEE flagship conference papers, 1 patent
Google Scholar Citation: more than 980, h-index: 12

◆ Honors

- 2025
 - 清華大學傑出人才發展基金學術研究獎
(NTHU Foundation for the Advancement of Outstanding Scholarship)
- 2024
 - 台灣雲端計算學會優秀青年學者獎暨最佳期刊論文獎
(TACC 2024 Distinguished Young Scholar and Best Journal Paper Award)
 - 清華大學電資院新進人員研究獎 (NTHU EECS Junior Researcher Award)
 - 清華大學優良研究學者 (NTHU Outstanding Researcher Award)
- 2023
 - 台灣雲端計算學會最佳期刊論文獎 (TACC 2023 Best Journal Paper Award)
 - 行動計算研討會最佳論文獎 (MC 2023 Best Paper Award)
- 2022
 - 潘文淵文教基金會考察研究獎 (Pan Wen-Yuan Exploration Research Award)
 - 潘文淵文淵論壇與談人受邀代表 (Invited Panelist in Wen-Yuan Forum)
 - 清華大學獎勵新聘特殊優秀人才 (NTHU Exceptional Talent Scholarship)
- 2021
 - 中央研究院博士後研究學者 (資創中心代表)
(Academia Sinica Postdoctoral Research Associate on behalf of CITI)
- 2020
 - MOST International Cooperation Research Symposium Invitee on behalf of MOST-NCPR International Cooperation Project Leader
- 2018
 - IEEE SYWL Congress Invitee on behalf of IEEE Taipei Section
 - 中華民國資訊學會最佳博士論文獎 (IICM Best Ph.D. Dissertation Award)
 - 中華民國斐陶斐榮譽會員
(The Phi Tau Phi Scholastic Honor Society Membership)
 - 臺灣大學優秀青年 (NTU Outstanding College Youth)
 - 臺灣大學資工所博士班優異畢業生致詞代表
(NTU Excellent Ph.D. Valedictorian on behalf of Dept. of CSIE)
- 2014 – 2018
 - 102, 103, 106 學年度臺灣大學高等計算機網路優良助教
(NTU CSIE Advanced Computer Networks Best TA Award)
- 2015
 - 科技部千里馬計畫 (亞利桑那大學研究學者)
(MOST Graduate Students Study Abroad Program (ASU Research Scholar))
- 2014
 - 臺大挑戰與突破演講：擔任與張忠謀董事長對談傑出研究生唯一代表
(Represented Interlocutor with Morris Chang in NTU Distinguished Lecture)
- 2013
 - 101 學年度臺灣大學次世代無線網路優良助教
(NTU CSIE Next-Generation Wireless Networks Best TA Award)
- 2012
 - IEEE APNOMS Student Travel Grant
 - 中華民國資訊學會最佳碩士論文獎 (IICM Best Master Thesis Award)
- 2009
 - 清華大學電資院優秀學生獎學金
(NTHU EECS Outstanding Student Scholarship)

◆ Tutorial Presentations

1. Title: 6G and Beyond for Metaverse-ready Networks: Enabling Technologies, Challenges, and Open Research Issues
in IEEE Consumer Communications & Networking Conference (CCNC), Jan. 2023.
2. Title: Federated Learning: Emerging Technology for Artificial Intelligence of Things (AIoT)
in Industrial Technology Research Institute (ITRI), Aug. 2021.
3. Title: Edge/Fog Computing and Networking for AI-enabled IoT (AIoT)
in IEEE World Forum on Internet of Things (WF-IoT), Jun. 2021.

4. Title: Towards AI-enabled Air-ground Integrated Wireless Edge Networks
in IEEE Vehicular Technology Conference (VTC) Fall, Oct. 2020.

◆ Invited Talk

1. Title: Privacy-preserving Edge Intelligence System (Host: Prof. Po-Chun Huang)
in Dept. of CSIE, National Taiwan University of Science and Technology, Oct. 2024.
2. Title: Privacy-preserving Edge Intelligence System (Host: Prof. Bay-Yuan Hsu)
in College of Engineering, National Tsing Hua University (NTHU), Oct. 2024.
3. Title: Privacy-preserving Edge Intelligence System (Host: Prof. Ding-Yong Hong)
in TIGP on AloT, Academia Sinica, Sep. 2024.
4. Title: Edge Intelligence for Realizing AloT (Host: Prof. Hao-Tsung Yang)
in Dept. of CSIE, National Central University (NCU), Apr. 2024.
5. Title: Edge Intelligence for Realizing AloT (Host: Prof. Jung-Tsung Tsai)
in Dept. of CS, National Taiwan Normal University (NTNU), Apr. 2024.
6. Title: Privacy-preserving Edge Intelligence for the Era of AloT (Host: Prof. Hsuan-Tien Lin)
in AI Forum, Taiwanese Association for Artificial Intelligence (TAAI), May 2023.
7. Title: A Roadmap of Privacy-preserving Edge Intelligence (Host: Prof. Yu Tsao)
in TIGP on SNHCC, Academia Sinica, Apr. 2023.
8. Title: A Glimpse of Privacy-preserving Edge Intelligence (Host: Prof. Yuan-Hao Chang)
in Data Science Degree Program, National Taiwan University (NTU), Apr. 2023.
9. Title: Edge AI: The Next Vision of Edge Computing (Host: Prof. Che-Rung Lee)
in Dept. of CS, National Tsing Hua University (NTHU), May 2022.
10. Title: Federated Learning: The Era of Edge AI (Host: Prof. Shun-Ren Yang)
in Dept. of COM, National Tsing Hua University (NTHU), Dec. 2021.
11. Title: 以聯邦式學習實現次世代邊緣智慧 (Host: Prof. Shuo-Han Chen)
in Dept. of CSIE, National Taipei University of Technology (NTUT), Dec. 2021.

◆ Joint Academic/Educational/Industrial Projects

1. **2025/08/01 – 2028/07/31**, “Edge Intelligence for Realizing Privacy-preserving Intelligent Transportation System,” by NSTC (國科會) Research Project [PI]
2. **2023/02/01 – 2026/01/31**, “Edge Intelligence Framework for Realizing the Era of Metaverse,”
by NSTC (國科會) Research Project [PI]
3. **2025/03/13 – 2027/01/31**, “Mobile Communications Core Curriculum Improvement and Promotion Plan,”
by MOE (教育部) Educational Project [PI]
4. **2023/02/01 – 2027/01/31**, “System Development and Software Application of Open Source Technology,”
by MOE (教育部) Educational Project [Co-PI]
5. **2024/01/01 – 2024/11/30**, “Revolutionize Future Software-Defined Cities with Artificial Intelligence,”
by NTHU (清大) Research Project [Co-PI]
6. **2022/07/01 – 2024/06/30**, “Heterogeneous Resource-Aware Federated Learning with Knowledge Distillation,” by Qualcomm (高通) Industrial Project [Co-PI]
7. **2023/01/01 – 2023/12/31**, “Software-Defined Cities Enabled by In-Situ and Mobile Nodes,”
by NTHU (清大) Research Project [Co-PI]
8. **2021/08/01 – 2024/07/31**, “Privacy-Preserving Edge Computing for AI-Enabled IoT (AloT),”
by MOST (科技部) Research Project
9. **2022/01/01 – 2022/12/31**, “Realizing Edge Intelligent Service with Fog/Edge Computing and B5G/6G,”

- by Academia Sinica (中研院) CITI Visible Project
10. 2021/01/01 – 2022/12/31, “Artificial Intelligence for Dynamic Map Info Collection and Update,” by **OmniEyes (動見科技)** Industrial Project
 11. 2020/06/01 – 2022/5/31, “A Study of Model Poisoning Attack for Federated Learning in AIoT Service Platform,” by **Qualcomm (高通)** Industrial Project **[Co-PI]**
 12. 2019/08/01 – 2022/07/31, “Realizing Artificial Intelligence of Things by Green Fog Computing and Networking,” by MOST (科技部) Research Project
 13. 2021/01/01 – 2021/12/31, “Realize Intelligent Service via Edge Learning in B5G/6G Era,” by Academia Sinica (中研院) CITI Visible Project
 14. 2020/01/01 – 2020/12/31, “Ultra Low-latency Service Provision in 5G Phase 2/B5G Era,” by Academia Sinica (中研院) CITI Visible Project
 15. 2019/06/01 – 2019/12/31, “Enable Edge Learning for AIoT Service Platform,” by **Qualcomm (高通)** Industrial Project
 16. 2018/03/01 – 2021/05/31, “Fog Communication, Computing And Control for Sustainable Future of ICT,” by MOST (科技部) International Research Project **(科技部台波國際合作研究計畫)**
 17. 2018/01/01 – 2019/12/31, “Ultra Low-latency Service Provision via Uberizing Fog Network,” by Academia Sinica (中研院) CITI Visible Project
 18. 2017/12/01 – 2018/12/31, “OmniEyes: Fog-based Mobile Video Management Platform,” by MOST's Taiwan Startup Institute **(科技部價創計畫)**
 19. 2017/03/01 – 2017/12/31, “Resource Allocation for Mobile Edge Computing Platform with Multiple Resource Providers,” by **Intel-NTU Research Center (臺大智慧聯網創新研究中心)** Industrial Project
 20. 2016/08/01 – 2019/07/31, “Enabling Low-Latency Applications in Fog-Radio Access Network,” by MOST (科技部) Research Project
 21. 2016/04/01 – 2016/12/20, “Mission Critical Applications Support over Dynamic Core Network System Technology,” by **Taiwan & China Cooperation and Institute of Information Industry (資策會)** Industrial Project
 22. 2014/08/01 – 2016/03/20, “Resource Allocation and Virtualization over Centralized Radio Access Network,” by **Taiwan & China Cooperation and Institute of Information Industry (資策會)** Industrial Project
 23. 2012/08/01 – 2014/07/31, “Joint Routing and Node Deployment in Wireless Rechargeable Sensor Networks by Exploiting Human Mobility,” by MOST (科技部) Research Project

◆ Patent

1. Yi-Yen Wang, Chia-Chin Ho, Chung-Sheng Lai, Chun-Ting Chou, **Te-Chuan Chiu**, *et al.*, “System and Method for Navigation,” US Patent US20230213351A1, Jul. 2023.
(with **OmniEyes (動見科技)** industrial cooperation)

◆ Research Publications

Remark: underlined authors are my students or (informally) co-advised students (including alumni)

Journal Papers

1. Chia-Che Sa, Li-Chen Cheng, Hsing-Huan Chung, **Te-Chuan Chiu**, Chih-Yu Wang, *et al.*, “Ensuring Bidirectional Privacy on Wireless Split Inference Systems,” in *IEEE Wireless Communications*, vol. 31, no. 5, pp. 134-141, Oct. 2024. **[IF: 12.9]**
2. Chao-Lun Wu, **Te-Chuan Chiu**, Chih-Yu Wang, and Ai-Chun Pang, “Mobility-Aware Deep Reinforcement Learning with Seq2seq Mobility Prediction for Offloading and Allocation in Edge Computing,” in *IEEE Transactions on Mobile Computing*, vol. 23, no. 6, pp. 6803-6819, Jun. 2024. **[IF: 7.9] (Citations: 41)**

3. Yuan-Yao Shih, Ai-Chun Pang, Tian He, and **Te-Chuan Chiu**, "A Multi-Market Trading Framework for Low-Latency Service Provision at the Edge of Networks," in IEEE Transactions on Services Computing, vol. 16, no. 1, pp. 27-39, 1 Feb. 2023. (2024 TACC Best Journal Paper Award) [IF: 8.1]
4. **Te-Chuan Chiu**, Chih-Yu Wang, Ai-Chun Pang, and Wei-Ho Chung, "Collaborative Energy Beamforming for Wireless Powered Fog Networks," in IEEE Transactions on Wireless Communications, vol. 21, no. 10, pp. 7942-7956, Oct. 2022. (2023 TACC Best Journal Paper Award) [IF: 10.4]
5. **Te-Chuan Chiu**, Yuan-Yao Shih, Ai-Chun Pang, Chieh-Sheng Wang, Wei Weng, and Chun-Ting Chou, "Semi-Supervised Distributed Learning with Non-IID Data for AIoT Service Platform," in IEEE Internet of Things Journal Special Issue on Artificial Intelligence Powered Edge Computing for Internet of Things, vol. 7, no. 10, pp. 9266-9277, Oct. 2020. [IF: 10.6] (Citations:111)
6. **Te-Chuan Chiu**, Ai-Chun Pang, Wei-Ho Chung and Junshan Zhang, "Latency-Driven Fog Cooperation Approach in Fog Radio Access Networks," in IEEE Transactions on Services Computing, vol. 12, no. 5, pp. 698-711, Oct. 2019. [IF: 8.1] (Citations: 48)
7. **Te-Chuan Chiu**, Yuan-Yao Shih, Ai-Chun Pang, and Che-Wei Pai, "Optimized Day-Ahead Pricing with Renewable Energy Demand-Side Management for Smart Grids," in IEEE Internet of Things Journal, vol. 4, no. 2, pp. 374-383, 2017. [IF: 10.6] (Citations: 165)
8. Yuan-Yao Shih, Wei-Ho Chung, Ai-Chun Pang, **Te-Chuan Chiu**, and Hung-Yu Wei, "Enabling Low-Latency Applications in Fog-Radio Access Network," in IEEE Network, vol. 31, no. 1, pp. 52-58, 2017. [IF: 9.3] (Citations: 206)

Conference Papers

1. Cheng-Yan Liu, **Te-Chuan Chiu***, "Relation-Aware Knowledge Graph BERT Semantic Communication," *accepted and to appear in IEEE Global Communications Conference (GLOBECOM), 2025.*
2. Hsiang-Ting Huang, **Te-Chuan Chiu***, "United Split Federated Learning with Evolutionary Game Approach," *accepted and to appear in IEEE Global Communications Conference (GLOBECOM) 2025.*
3. Cheng-Yan Liu, **Te-Chuan Chiu***, and Yi-Xiang Huang, "Fusion-Aware Unified Semantic Communication for Multimodal AIoT Service," *accepted and to appear in IEEE Global Communications Conference (GLOBECOM), 2025.*
4. Ping-Chien Chang, **Te-Chuan Chiu***, and Hsiang-Ting Huang, "D2D-Assisted Split Learning Approach for Model-Heterogeneous Federated Learning," *accepted and to appear in IEEE Global Communications Conference (GLOBECOM), 2025.*
5. Tuong Do, Binh Nguyen, Quang Tran, Erman Tjiputra, **Te-Chuan Chiu***, and Anh Nguyen*, "Lightweight Temporal Transformer Decomposition for Federated Autonomous Driving," *accepted and to appear in IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Hangzhou, China, Oct. 2025.*
6. Tuong Do, Nghia Vu, Tudor Jianu, Baoru Huang, Minh Vu, Jionglong Su, Erman Tjiputra, Quang D. Tran, **Te-Chuan Chiu***, and Anh Nguyen*, "FedEFM: Federated Endovascular Foundation Model with Unseen Data," in *IEEE International Conference on Robotics and Automation (ICRA)*, Atlanta, USA, May. 2025.
7. Ngoc Hoa Pham, **Te-Chuan Chiu***, "Latency-Aware Heterogeneous Resource Allocation and Rendering Task Offloading for Metaverse," in *IEEE Wireless Communications and Networking Conference (WCNC)*, Milan, Italy, Mar. 2025.
8. Kung-Hao Chang, **Te-Chuan Chiu**, and Jang-Ping Sheu, "VISIT: Virtual-Targeted Sequential Training with Hierarchical Federated Learning on Non-IID Data," in *IEEE International Conference on Communications (ICC)*, Denver, USA, Jun. 2024.
9. Tzu-Hsuan Peng, Cheng-Wei Huang, Ai-Chun Pang, and **Te-Chuan Chiu**, "Weak Devices Matter: Model

- Heterogeneity in Resource-Constrained Federated Learning,” in *IEEE International Conference on Communications (ICC)*, Denver, USA, Jun. 2024.
10. Tuong Do, Binh Nguyen, Quang Tran, Hien Nguyen, Erman Tjiputra, **Te-Chuan Chiu***, and Anh Nguyen*, “Federated Autonomous Driving with Contrastive Divergence Loss,” in *IEEE International Conference on Robotics and Automation (ICRA)*, Yokohama, Japan, May. 2024.
 11. Zih-Yi Yang, **Te-Chuan Chiu**, and Jang-Ping Sheu, “Reinforcement Learning-based Task Offloading of MEC-assisted UAVs in Precision Agriculture,” in *IEEE Global Communications Conference (GLOBECOM)*, Kuala Lumpur, Malaysia, Dec. 2023.
 12. Ming-Hsuan Tsai, Wei-Sheng Syu, **Te-Chuan Chiu**, Sheng Chen, Chia-Che Sa, *et al.*, “Metalens: Federated Meta-Learning Ensemble Using Flexible Classifiers on Non-IID Data,” in *IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS)*, Sejong, Korea, Sep. 2023.
 13. Tzu-Hsuan Peng, **Te-Chuan Chiu**, Ai-Chun Pang, and Wei-Chun Tai, “SynFMPL: A Federated Meta Pseudo Labeling Framework with Synergetic Strategy,” in *IEEE International Conference on Communications (ICC)*, Rome, Italy, Jun. 2023.
 14. **Te-Chuan Chiu**, Wei-Che Lin, Ai-Chun Pang, and Li-Chen Cheng, “Dual-Masking Framework against Two-Sided Model Attacks in Federated Learning,” in *IEEE Global Communications Conference (GLOBECOM)*, Madrid, Spain, Dec. 2021.
 15. Ling-Yuan Chen, **Te-Chuan Chiu**, Ai-Chun Pang, and Li-Chen Cheng, “FedEqual: Defending Model Poisoning Attacks in Heterogeneous Federated Learning,” in *IEEE Global Communications Conference (GLOBECOM)*, Madrid, Spain, Dec. 2021.
 16. Chao-Lun Wu, **Te-Chuan Chiu**, Chih-Yu Wang, and Ai-Chun Pang, “Mobility-Aware Deep Reinforcement Learning with Glimpse Mobility Prediction in Edge Computing”, in *IEEE International Conference on Communications (ICC)*, Dublin, Ireland, Jun. 2020.
 17. Mehmet Dedeoglu, **Te-Chuan Chiu**, and Junshan Zhang, “The Impact of Traffic Information Age on Congestion Mitigation,” in *IEEE Global Communications Conference (GLOBECOM)*, Hawaii, USA, Dec. 2019.
 18. **Te-Chuan Chiu**, Junshan Zhang, and Ai-Chun Pang, “Privacy-preserving of Platoon-based V2V in Collaborative Edge,” in *ACM/IEEE Symposium on Edge Computing (SEC)*, San Jose, USA, Oct. 2017.
 19. Ai-Chun Pang, Wei-Ho Chung, **Te-Chuan Chiu**, and Junshan Zhang, “Latency-Driven Cooperative Task Computing in Multi-User Fog-Radio Access Networks,” in *IEEE International Conference on Distributed Computing Systems (ICDCS)*, Atlanta, USA, Jun. 2017. **(Citations: 87) (Top Conf. acceptance rate \approx 16%)**
 20. Ya-Ju Yu, **Te-Chuan Chiu**, Ai-Chun Pang, Ming-Fan Chen, and Jiajia Liu, “Virtual Machine Placement for Backhaul Traffic Minimization in Fog Radio Access Networks,” in *IEEE International Conference on Communications (ICC)*, Paris, France, May. 2017.
 21. **Te-Chuan Chiu**, Ya-Ju Yu, Shih-Fan Chou, Yu-Ting Tsai, and Ai-Chun Pang, “Efficient Multi-Radio Selections for Device-to-Device in Wireless Cellular Networks,” in *International Computer Symposium*, Chiayi, Taiwan, Dec. 2016.
 22. **Te-Chuan Chiu**, Wei-Ho Chung, Ai-Chun Pang, Ya-Ju Yu, and Pei-Hsuan Yen, “Ultra-Low Latency Service Provision in 5G Fog-Radio Access Networks,” in *IEEE Personal, Indoor and Mobile Radio Communications (PIMRC)*, Valencia, Spain, Sep. 2016. **(Citations: 59)**
 23. Shih-Fan Chou, **Te-Chuan Chiu**, Ya-Ju Yu, Ai-Chun Pang, “Mobile Small Cell Deployment for Next Generation Cellular Networks,” in *IEEE Global Communications Conference (GLOBECOM)*, Austin, USA, Dec. 2014. **(Citations: 75)**
 24. **Te-Chuan Chiu**, Ya-Ju Yu, Ai-Chun Pang, and Tei-Wei Kuo, “Profit-Aware Base Station Operation for Green

- Cellular Networks,” in *IEEE International Conference on Communications (ICC)*, Sydney, Australia, Jun. 2014.
25. **Te-Chuan Chiu**, Che-Wei Pai, Yuan-Yao Shih, and Ai-Chun Pang “Optimal Day-ahead Pricing with Renewable Energy for Smart Grid,” in *IEEE International Conference on Communications Workshops (ICC)*, Sydney, Australia, Jun. 2014.
26. **Te-Chuan Chiu**, Yuan-Yao Shih, Ai-Chun Pang, Jeu-Yih Jeng, and Pi-Cheng Hsiu, “Mobility-aware Charger Deployment for Wireless Rechargeable Sensor Networks,” in *IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS)*, Seoul, Korea, Sep. 2012. **(Citations: 77)**

♦ Professional Activities

Teaching Experience

1. Institute of ISA, NTHU, Information Systems and Applications Seminar (Fall 2022 – Spring 2025) [\(English\)](#)
2. College of EECS, NTHU, Introduction to Computer Networks (Spring 2022 – 2025) [\(English\)](#)
3. Dept. of CS, NTHU, Computer Networks (Fall 2022 – 2025)
4. Dept. of CS, NTHU, Next Generation Mobile Networks (Fall 2025)

Conference Services

1. Workshop Chair, IEEE Conference on Dependable and Secure Computing (DSC), 2025.
2. Track Chair, National Telecommunications Conference (NST), 2025.
3. Publication Chair, The International Conference on Technologies and Applications of Artificial Intelligence (TAAI), 2024.
4. Session Chair, IEEE Global Communications Conference (GLOBECOM), 2023.
5. Session Chair, IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS), 2023.
6. Session Chair, Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), 2023.

Technical Program Committee Member

1. IEEE Wireless Communications and Networking Conference (WCNC), 2021 – 2026.
2. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2024 – 2025.
3. IEEE International Conference on Communications (ICC), 2025.
4. IEEE International Federation for Information Processing International Internet of Things Conference (IFIP-IoT), 2023 – 2024.
5. IEEE Global Communications Conference (GLOBECOM), 2020 – 2023.
6. EAI International Conference on Security and Privacy in Cyber-Physical Systems and Smart Vehicles (SmartSP), 2023.
7. IEEE Vehicular Technology Conference (VTC2023-Fall), 2023.

Conference Presentations

1. IEEE Wireless Communications and Networking Conference (WCNC), Milan, Italy, Mar. 2025.
2. IEEE International Conference on Communications (ICC), Denver, USA, Jun. 2024.
3. IEEE Global Communications Conference (GLOBECOM), Kuala Lumpur, Malaysia, Dec. 2023.
4. IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS), Sejong, Korea, Sep. 2023.
5. IEEE International Conference on Communications (ICC), Rome, Italy, May 2023.
6. IEEE Global Communications Conference (GLOBECOM), Madrid, Spain, Dec. 2021.
7. MOST Science and Technology International Cooperation Research Symposium, Taipei, Taiwan, Oct. 2020.
8. ACM/IEEE Symposium on Edge Computing (SEC), San Jose, USA, Oct. 2017.
9. IEEE International Conference on Distributed Computing Systems (ICDCS), Atlanta, USA, Jun. 2017.

10. IEEE Personal, Indoor and Mobile Radio Communications (PIMRC), Valencia, Spain, Sep. 2016.
11. IEEE International Conference on Communications (ICC), Sydney, Australia, Jun. 2014.
12. IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS), Seoul, Korea, Sep. 2012.

Invited Reviewer

Journal

1. IEEE Transactions on Vehicular Technology (TVT), 2018 – 2025.
2. IEEE/ACM Transactions on Networking (TNET), 2023 – 2025.
3. IEEE Transactions on Mobile Computing (TMC), 2020 – 2025.
4. IEEE Transactions on Cloud Computing (TCC), 2025.
5. IEEE Transactions on Reliability (TR), 2024 – 2025.
6. IEEE Internet of Things Journal, 2022 – 2025.
7. IEEE Internet of Things Magazine, 2025.
8. IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2024.
9. IEEE Transactions on Sustainable Computing (TSUSC), 2024.
10. IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI), 2022 – 2023.
11. IEEE Transactions on Cognitive Communications and Networking (TCCN), 2023.
12. IEEE Transactions on Emerging Topics in Computing (TETC), 2021 – 2023.
13. IEEE Wireless Communications Magazine, 2023.
14. IEEE Journal on Selected Areas in Communications (JSAC), 2022.
15. Journal of Signal Processing Systems (JSPS), 2022.
16. IEEE Transactions on Green Communications and Networking (TGCN), 2018 – 2021.
17. IEEE Transactions on Network and Service Management (TNSM), 2020 – 2021.
18. ACM Transactions on Intelligent Systems and Technology (TIST), 2021.
19. Journal of Information Science and Engineering (JISE), 2021.
20. IEEE Transactions on Services Computing (TSC), 2018.
21. IEEE Network Magazine, 2018.

Conference

1. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2024.
2. IEEE Wireless Communications and Networking Conference (WCNC), 2018 – 2025.
3. IEEE International Conference on Communications (ICC), 2020 – 2025.
4. EAI International Conference on Security and Privacy in Cyber-Physical Systems and Smart Vehicles (SmartSP), 2023.
5. IEEE Global Communications Conference (GLOBECOM), 2020 – 2023.
6. IEEE Vehicular Technology Conference (VTC-Spring), 2023.
7. IEEE Vehicular Technology Conference (VTC-Fall), 2023.