Dr. Viet Quoc Pham

Contact Information

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Profiles:	Google Scholar, ResearchGate, Web of Science, Scopus, LinkedIn, and ORCID

Highlights

Currently, 6 PhD students (2 as the Main Supervisor, 1 PhD visiting student), 6 Master's students, 40+ undergraduate tutees, 8 PhD graduates (co-supervised, including 2 females), and 15 MSc graduates.

Best PhD Dissertation Award, Ranked #1 in Engineering.

IEEE ComSoc Best Young Researcher Award for EMEA 2023 for research activities for the benefit of the ComSoc.

IEEE Senior Member since 2023. Member of the IEEE ComSoc and the IEEE VTS.

150+ published/accepted Transactions/Magazines/Letters, 50+ conference papers, 1 authored book, 8 book chapters, and numerous IEEE Best Paper Awards.

Computer Science in Ireland Leader Award by Research.com, 2026. Best Computer Science Scientists in Ireland by Research.com, 2024-2025. Highly Ranked Scholar by ScholarGPS, 2024-2025. **Featured Author on IEEE Xplore**, 2026.

Web of Science top 1% most cited, **Highly Cited Researcher**, 2024.

Google Scholar Citations 25,500+, **h-index 65+**, and **i10-index 150+**.

PI of numerous R&D projects funded by prestigious funding sources like NVIDIA, Korea NRF, HORIZON MSCA, and European Research Council. Involvement in winning over €3.91M in R&D funding (as PI or beneficiary).

Editorship experience in top-tier journals, including *IEEE Communications Letters*, *IEEE Communications Surveys and Tutorials*, *IEEE Communications Standards Magazine*, *IEEE Transactions on Mobile Computing*, and *IEEE Transactions on Network Science and Engineering*.

Vietnam Golden Globe Science and Technology Award 2021.

Education

Aug. 2017	Doctor of Engineering in Telecommunications, **Inje University**, Korea Thesis: "Fair and Energy-Efficient Resource Allocation Optimization in Wireless Networks" Prize: **Best PhD Dissertation Award**, Ranked #1 in Engineering
Aug. 2015	MSc in Telecommunications Engineering, **Inje University**, Korea Thesis: "Multi-Timescale Cross-Layer Design in Wireless Multihop Networks"
Aug. 2013	BSc in Electronics and Telecommunications Engineering **Hanoi University of Science and Technology**, Vietnam Thesis: "Building an Observational Data Processing and Archiving Center for Automatic Water Level Gathering and Alarming System" (in Vietnamese)

Academic Experience

Jan. 2023 - Now	**Assistant Professor** (Above the Bar) in Networks and Distributed Systems, School of Computer Science and Statistics, Trinity College Dublin, The University of Dublin, Ireland
Jan. 2026 - Now	**Academic Collaborator**, Research Ireland Centre for AI-Driven Digital Content Technology (ADAPT), Ireland

Jan. 2023 - Now	**TCD Supervisor**, CRT in Advanced Networks for Sustainable Societies (ADVANCE CRT), Ireland
Jan. 2023 - Now	**Associate Investigator**, Research Ireland Research Centre for Future Networks and Communications, CONNECT, Ireland
Jan. 2020 - Jan. 2023	**Research Professor**, Southeast Center for the 4th Industrial Revolution Leader Education, Pusan National University, Korea
Mar. 2018 - Dec. 2019	**Research Professor**, ICT Convergence Research Center Changwon National University/Inje University, Korea
Sep. 2017 - Feb. 2018	**Post-Doctoral Research Fellow**, Department of Computer Science and Engineering Kyung Hee University, Korea
Sep. 2013 - Jun. 2017	**Research Assistant** (PhD Student), Department of Information and Communication System, Inje University, Korea
Feb. 2012 - Aug. 2013	**Research Assistant** (Senior Student), School of Electronics and Telecommunications, Hanoi University of Science and Technology, Vietnam

Administrative Experience

Aug. 2026 - Present	**Course Director of Computer Engineering** (D Stream) School of Computer Science and Statistics, Trinity College Dublin Website: www.tcd.ie/courses/undergraduate/courses/computer-engineering/
Sep. 2024 - Present	**College Tutor**, Trinity College Dublin
Aug. 2023 - Aug. 2026	**Demonstrator and Teaching Assistant Coordinator** School of Computer Science and Statistics, Trinity College Dublin

Grants and Projects

2026 - 2027	**NVIDIA Academic Grant Programme for Researchers** (2 years) Hardware: NVIDIA RTX PRO™ 6000 GPU Cards and Jetson AGX Orin™ Developer Kits Title: *Quantum AI-native 6G Physical Layer Optimisation*
2025 - 2028	**CHIST-ERA Call 2023 through the Pathfinder programme of the EIC** (€914,624, 3 years) Project Coordinator Consortium: TCD (Ireland), Uni.lu (Luxembourg), CCU (Taiwan), KU (Türkiye) Title: *SHIELD: Reliable Distributed Learning and Smart Contract assisted Digital Ecosystems*
2025 - 2028	**Higher Education Research Equipment Grant (HEREG) Scheme** (€99,254) Stream 1 of Trinity Research Boost Programme, Principal Investigator Title: *Guaranteeing the Right of Data Forgotten with Generative AI*
2025 - 2028	**HORIZON MSCA Staff Exchange (SE) 2023** (€1,545,600, 4 years) Principal Investigator (TCD), Project 101182933 Consortium: TCD, UCD (Coordinator), and 13 other partners. Website: www.ensure-6g.eu Title: *ENSURE-6G: Evolution in Security and Privacy for 6G Networks*
2025 - 2029	**CKDelta-Trinity Collaboration** (€865,000, 4 years) Co-Investigator, PhD Supervisor Principal Investigator: Prof. Gregory O'Hare Project: *CKDelta-Trinity Partnership on AI Research in Action (data-driven predictive maintenance)*
2024 - 2026	**Enterprise Ireland Horizon Europe Coordinator Support Grant** (€12,429, 2 years) Principal Investigator, Project CS20242235 Title: *Translatable Learning for Hyperconnected Systems*
2025 - 2026	**VinUni - Seed Grant Program AY25-26** (2 years) Key Member, Academic Supervisor (PI: Dr. Duong Minh Nguyen) Title: *Towards Communication and Computation Efficient FCL Approach for Medical Image Analysis*

2024 - 2026 **Vingroup Innovation Foundation (VINIF)** (6,000,000,000 VND, 3 years)
Key Member, VINIF.2024.DA051
Title: *Development of an AUV using SONAR Technology for Supporting Underwater Surveillance and Measuring Marine Environmental Parameters*

2023 - 2025 **Enterprise Ireland's ERC Support Grant** (€15,982, 2 years)
Principal Investigator, Project EC20231518
Title: *Generalized Knowledge Abstraction for Data Reconstruction and Lifelong Learning*

2024 - 2025 **Vietnam NAFOSTED Basic Science and Research** (2 years)
Key Participant, Project 102.02-2023.06
Title: *Improving Efficiency of Drone Surveillance Systems using Deep Learning*

2019 - 2024 **Korea NRF Basic Science and Research** (500,000,000 KRW, 5 years)
Principal Investigator (sole PI), Grant NRF-2019R1C1C1006143
Title: *Privacy Enhancing Connected Cars in 5G and Beyond*

2022 - 2024 **FDCRGP Grant, Nazarbayev University** ($136,000, 3 years)
Co-Principal Investigator, Grant No. 11022021FD2925
Title: *Edge-assisted Activity Recognition using Skeletal Representation and DL for Video Surveillance*

2019 - 2024 **Korea NRF Basic Science and Research** (500,000,000 KRW, 5 years)
Key Participant, Grant NRF-2019R1I1A3A01060518
Title: *Edge Computing in the 5G Ecosystem: Joint 4C Framework and Its Applications*

2018 - 2019 **Korea NRF Basic Science and Research** (25,000,000 KRW), Key Participant
Project in collaboration with The University of Sydney, Grant NRF-2018K2A9A1A01090540
Title: *Low Overhead Channel Access for 5G Mobile Communications in Large-Scale IoT Networks*

2020 - 2027 **Brain Korea (BK) 21** (549,825,000 KRW/year), Participant, Pusan National University, Korean Southeast Center for the 4th Industrial Revolution Leader Education

Awards and Recognition

- Featured Author on IEEE Xplore, 2026.
- Computer Science in Ireland Leader Award, Research.com, 2026.
- Best Rising Star of Science Award, Research.com, 2025-2026.
- Exemplary Editor Award, IEEE Communications Standards Magazine, 2024.
- Highly Cited Researcher by Clarivate (Engineering, Telecommunications, Computer Science), 2024.
- Presentation Invitation for an Interactive Session at IEEE GLOBECOM 2024.
- Top 0.05% Highly Ranked Scholars by ScholarGPS (Prior Five years) in the Field of Engineering and Computer Science, 2024-2025.
- Best Computer Science Scientists (in Ireland and worldwide), Research.com, 2024-2025.
- World's Top 2% of Scientists by Stanford University (both Career-Long Achievement and Single Year Achievement), 2021-2024.
- Top Reviewer Award, IEEE Transactions on Vehicular Technology, 2020.
- Best Paper Award, IEEE Consumer Electronics Magazine, 2024.
- IEEE ComSoc Best Young Researcher Award for EMEA, 2023.
- TCD School of Computer Science and Statistics Award, 2023-2027.
- Decade of Contribution Award, Wireless AI (WAI) Laboratory, Pusan National University, 2023.
- Best Paper Award, IEEE ATC Conference, 2022.

- Award for Outstanding Contributions and Research Excellence, Minister of Education (Korea), 2021.
- Golden Globe Youth Science and Technology Award, 2021.
- Best PhD Dissertation Award (ranking #1), Inje University, 2017.
- Leadership and Scientific Publication Scholarship, Inje University, 2015-2016.
- Best Paper Award, KMMS 2014, JKCCS 2016, KJCCS 2020, KICS 2021.
- Prize for Excellent Students, Vietnamese Students' Association in Korea (VSAK), 2015.
- University Scholarship for Excellent Students, HUST, 2010-2013.

Visiting Experience

Jul. 2026	University of Sri Jayewardenepura, Sri Lanka (Secondment in the ENSURE-6G Project)
May 2026 - June 2026	TU Delft, Netherlands (Secondment in the ENSURE-6G Project)
Mar. 2026 - May 2026	Vrije Universiteit Brussel (VUB), Belgium (Secondment in the ENSURE-6G Project)
Jul. 2025 - Jul. 2025	University of Sri Jayewardenepura, Sri Lanka (Secondment in the ENSURE-6G Project)
Jun. 2023 - Jul. 2023	University of Ulsan, Korea (Hosted by Prof. Sunghwan Kim)
Jan. 2016 - Feb. 2016	Tokyo University of Science, Japan (Hosted by Prof. Mikio Hasegawa)
Aug. 2019 - Aug. 2019	Tokyo University of Science, Japan (Hosted by Prof. Mikio Hasegawa)

Mentoring and Teaching Experience

Lecturer, Trinity College Dublin

1. **Communication Chanels for C/CD/D Streams - EEU3321J/EEU4421S/EEU5521M**
   - Full-year module. EEU3321J for JS, EEU4421S for SS, EEU5521M for MAI.
   - Description: *These modules provide official communications, programme updates, and announcements for students pursuing (Computer) Engineering programmes. These include welcome sessions at the start of the academic year to share important information with students about their year and things they need to be aware of as they start the year.*
   - Academic years:*2026-2027*.
   - Role: *Coordinator and Lecturer*.
2. **Internet Applications - CSU44000**
   - Michaelmas teaching term (aka Fall semester), year-4 undergraduate module for computer science and engineering students.
   - Description: *This module equips students with foundational concepts and practical knowledge in the development and deployment of internet applications (e.g., cloud edge computing, web frameworks, cloud computing environments, mobile edge computing, and decentralized Internet).*
   - Academic years: *2025-2026*, *2026-2027*.
   - Role: *Coordinator and Lecturer*.
3. **Microprocessor Systems - CSU23021**
   - Hilary teaching term (aka Spring semester), year-2 undergraduate module for CS students, and year-3 undergraduate module for engineering students.
   - *This module provides a holistic overview of how a typical general-purpose computing system functions, followed by a deep dive into the various key architectural features of such systems.*
   - Academic years: *2022-2023*, *2023-2024*, *2024-2025*, *2025-2026*.

- Role: *Coordinator and Lecturer*.

4. **Computer Engineering Project - CSU44E02**
   - Hilary teaching term: *This module is designed for fourth-year students to undertake capstone projects.*
   - Academic years: *2024-2025*.
   - Role: *Capstone Supervisor*.
5. **Industrial / Research Lab Internship - CS7091**
   - Hilary teaching term: *This is an internship module for fifth-year master's students.*
   - Academic years: *2023-2024, 2024-2025*.
   - Role: *Internship Supervisor*.

Assistant Lecturer, Pusan National University, 2021

1. **AI for NextG networks** (Winter 2021, graduate course): *The students learn how to apply different AI techniques (e.g., machine, deep, federated, and reinforcement learning) for NextG networks, and how NextG wireless can help to improve the performance of AI and deployment of AI services.*

Adjunct Lecturer, Inje University, 2018 - 2019

1. **Convex optimization** (Fall 2018, graduate course): *This course focuses on the fundamentals of convex functions and problem formulation and optimization. Further, this course is also a prerequisite for advanced courses, such as game theory, artificial intelligence, and machine learning.*
2. **Game theory in wireless and communication networks** (Spring 2019, graduate course): *This course equips the students with promising mathematical tools (e.g., cooperative games, coalitional games, and Stackelberg games) to solve problems in wireless and communication networks from an economics perspective.*
3. **Machine learning in wireless and communication networks** (Fall 2019, graduate course): *This course delivers the fundamental concepts of machine learning (supervised and unsupervised learning) and its applications to future wireless networks and Internet-of-Things systems.*

Teaching Assistant, Inje University, 2016 - 2017

1. Introduction to Android Programming (Fall 2016, undergraduate course): *Responsible for preparation of teaching materials, assignments, term projects, and labs.*
2. Data and Computer Communications (Fall 2016, Spring 2017, Fall 2017, undergraduate course): *Responsible for preparation of teaching materials, term projects, and labs.*

Mentoring Assistant, Hanoi University of Science and Technology, 2012

1. Project II (Fall 2012, undergraduate course): *Worked as a senior student and guided 4th-year undergraduate students on programming skills and testbed designs.*

Fields of Research Interest

- **COmputing**: cloud edge computing, aerial computing, edge of things, and edge AI.
- **Intelligence**: wireless AI, deep learning, reinforcement learning, federated learning, and quantum ML.
- **Networking**: 6G wireless, IoT, quantum networking, metaverse, and blockchain.

Supervision

Current PhD and MSc-by-Research Students

1. **Quang Minh Duong**
   - PhD Student, Trinity College Dublin, 2025/09 – Present.
   - Topic: Decentralized federated learning and unlearning (SHIELD Project).
2. **Minh-Thanh Nguyen**
   - PhD Student, Trinity College Dublin, 2026/03 – Present.
   - Topic: Multi-agent deep reinforcement learning for Open RAN.
   - Co-supervision with Prof. Van-Dinh Nguyen.
3. **Shay Seiya McDonnell**
   - PhD Student, Trinity College Dublin, 2025/09 – Present.
   - Topic: Artificial intelligence (ARIA Programme in collaboration with CKDelta).
   - Co-supervision with Prof. Gregory O'Hare.
4. **Linh Thanh Nguyen**
   - PhD Student, Trinity College Dublin, 2023/09 – Present.
   - Topic: Incentivization in decentralized federated learning.
5. **Hue Thi Dang**
   - PhD Student, Trinity College Dublin, 2024/03 – Present.
   - Topic: Numeric accuracy and reproducibility in deep learning training and inference.
   - Co-supervision with Prof. Andrea Patane.
6. **Haowen Sun**
   - PhD Student, Southeast University, 2021/09 – Present.
   - Visiting PhD Student, Trinity College Dublin, Sep. 2025 - Present.
   - Topic: Mobile edge computing, edge AI, and applied machine learning.
7. **Khai Duc Dang**
   - Research Assistant, Vin University (VinUni), 2026/01 – Present.
   - Research Topic: Federated continual learning, federated unlearning, domain generalisation.
   - Co-supervision with Dr. Duong Minh Nguyen (VinUni).

Current MSc Students and Interns

1. **Conor Walsh**
   - MSc in Engineering (MAI D), Trinity College Dublin, 2026/09 – 2027/08.
   - Thesis: Multimodal machine unlearning

Alumnus

1. **Jiahui Zhao**
    - PhD Student, Southeast University, 2020/09 – 2026/08.
    - Visiting PhD Student, Trinity College Dublin, 2024/01 – 2025/01.
    - Topic: Semantic communication, mobile edge computing, deep reinforcement learning.
2. **Khanh Vinh Tran**
    - MSc by Research Student, University College Cork, 2025/09 – 2026/08.
    - Topic: Design and development of a reliable and high-performance agentic AI platform.
    - Co-supervision with Prof. Harry Nguyen.
3. **Ayush Yogesh**
    - MSc in Engineering (MAI D), Trinity College Dublin, 2025/09 – 2026/08.
    - Thesis: A White-Box Verification Protocol for Client-Level Federated Unlearning.
4. **Niraj Bharambe**
    - MSc in Computer Science - Future Network Systems, Trinity College Dublin, 2025/09 – 2026/08.
    - Thesis: Federated learning and multi-agent RL for vehicular edge computing.
5. **Tao-Sen Chang**
    - MSc in Computer Science - Future Networked Systems, Trinity College Dublin, 2025/09 – 2026/08.
    - Thesis: VisHtFL: An Interactive Visualization System for Heterogeneous Federated Learning.
6. **Xiaoxuan Duan**
    - MSc in Computer Science - Future Networked Systems, Trinity College Dublin, 2025/09 – 2026/08.
    - Thesis: Machine Unlearning for Text Classification: Balancing Forgetting and Utility Preservation.
7. **David Konovalovs**
    - MSc in Engineering (MAI D), Trinity College Dublin, 2025/09 – 2026/08.
    - Thesis: Comparing Aggregation Strategies for Federated Learning.
8. **Daniel Cunney**
    - BAI in Computer Science, Trinity College Dublin, 2025/09 – 2026/08.
    - FYP Thesis: Benchmarking Federated Graph Learning Methods under Data Heterogeneity.
9. **Ramy El-Sherbiny**
    - MSc in Computer Science, Trinity College Dublin, 2025/09 – 2026/08.
    - Thesis: Deep Reinforcement Learning for Resource Allocation Optimisation in Federated Learning over Wireless Networks.
10. **Tuan Van Tran**
    - PhD Student, Trinity College Dublin, 2023/09 – 2025/12.
    - Topic: Collective intelligence, federated learning, machine unlearning.
    - Current position: NA (moved to another team).
11. **Mengyan Huang**
    - PhD Student, Xidian University, 2021/09 – 2025/08.
    - Visiting PhD Student, Trinity College Dublin, 2023/10 – 2024/10.

- Topic: beamforming/precoding, physical layer security, satellite communications, and NOMA.
- Current position: Postdoctoral Research Fellow (Henan Polytechnic University), China.

12. **Lakshman Raj Baskaran**
    - MSc Student in Computer Science - Future Networked Systems, Trinity College Dublin, 2024/09 – 2025/08.
    - Thesis: Automatic Modulation Classification using Graph Neural Networks.
13. **Nishanth Gopinath**
    - MSc Student in Computer Science - Data Science, Trinity College Dublin, 2024/09 – 2025/08.
    - Thesis: Personalized Secure Slimmable Quantum Federated Learning.
14. **Michael Lynch**
    - BAI D (Engineering), Trinity College Dublin, 2024/09 – 2025/08.
    - Capstone Project: Comparative Analysis of Machine Learning Models for Denoising 5G NR Spectrograms.
15. **Fionn Murphy**, Senior Sophister Internship, Trinity College Dublin, 2024 - 2025.
16. **Fiyinfoluwa Onafuwa**, Senior Sophister Internship, Trinity College Dublin, 2024 - 2025.
    - Research Appendix Project: The Evolution of Search: A comparative study of AI Enhanced Search Technologies and the shift toward the use of AI in Information Retrieval
17. **Duong Minh Nguyen**
    - PhD Student, Pusan National University, 2020/09 – Present.
    - Thesis: Empowering Networked Semantic Communication with Knowledge-Aided Deep Channel Coding and Federated Learning.
    - Co-supervision with Professor Won-Joo Hwang.
    - Current position: Postdoctoral Research Fellow (Vin University), Vietnam.
18. **Hoc Thai Vu**
    - PhD Student, University of Ulsan, 2020/03 – 02/2025.
    - Topic: Performance Analysis and Data-driven Optimization of 6G Short-Packet Communications.
    - Co-supervision with Professor Sunghwan Kim.
    - Current Position: Postdoctoral Research Fellow (Kyonggi University), Korea.
19. **Alberti Mattia**
    - MSc Student in Statistics and Sustainability, Trinity College Dublin, 2023/09 – 2024/08.
    - Thesis: Do Investors' Health Conditions Affect Their Portfolio Allocation Decisions? A Statistical Analysis.
20. **Agrawal Samarth**
    - MSc Student in Computer Science - Future Networked Systems, Trinity College Dublin, 2023/09 – 2024/08.
    - Thesis: Automatic Modulation Classification using Deep Learning Models.
21. **Antony Anshal**
    - MSc Student in Computer Science - Future Networked Systems, Trinity College Dublin, 2023/09 – 2024/08.
    - Thesis: Dynamic Unlearning in Large Language Models: An AI Agent-Based Approach to Data Censorship.

22. **Habeeb Rahuman Ashiqur Rahman**
    - MSc Student in Computer Science - Future Networked Systems, Trinity College Dublin, 2023/09 – 2024/08.
    - ABD (all but dissertation).
23. **Ciara Lynch**, Senior Sophister Internship, Trinity College Dublin, 2023 - 2024.
24. **Yi Ren**, Senior Sophister Internship, Trinity College Dublin, 2023 - 2024.
25. **Nuoxi Zhang**, Millennium Fellowship 2024, Trinity College Dublin.
26. **Mai Thi Le**
    - PhD in Computer Science, Pusan National University, 2021/03 – 2024/02.
    - Thesis: Resource Allocation Optimization in Intelligent Wireless Networks (co-supervision with Prof. Won-Joo Hwang).
    - Current position: Visiting researcher, Trinity College Dublin, Ireland.
27. **Thanh Thien Dao**
    - PhD in Computer Science, Pusan National University, 2020/09 – 2024/02.
    - Thesis: Deep Learning-based Automatic Modulation Classification (co-supervision with Prof. Won-Joo Hwang).
    - Current position: AI robot researcher, DOGU, Korea.
28. **Nadia Iradukunda**
    - PhD in Telecommunications Engineering, Inje University, 2019/09-2022/08.
    - Thesis: Resource Allocation Optimization for UAV Wireless Backhaul 5G Networks (co-supervision with Prof. Won-Joo Hwang).
    - Current position: Lecturer, Mount Kenya University, Rwanda.
29. **Mai Thi Le**
    - MSc in Telecommunications Engineering, Inje University, 2019/3-2021/2.
    - Thesis: Swarm Intelligence for D2D Communications with Unlicensed Spectrum (co-supervision with Prof. Won-Joo Hwang).
    - Current position: Visiting researcher, Trinity College Dublin, Ireland.
30. **Hoang Huu Trung**
    - PhD in Computer Science, Inje University, 2018/9-2021/2.
    - Thesis: Machine Learning for mmWave Communications (co-supervision with Prof. Won-Joo Hwang).
    - Current position: Lecturer, Hue University, Vietnam.
31. **Vo Ta Hoang**
    - PhD in Telecommunications Engineering, Inje University, 2017/9-2020/2.
    - Thesis: Resource Allocation for MEC Systems (co-supervision with Prof. Won-Joo Hwang).
    - Current position: Lecturer, Thuyloi University, Vietnam.
32. **Nguyen Tien Hoang**
    - MSc in Telecommunications Engineering, Inje University, 2017/9-2019/8.
    - Thesis: Game Theory for Computation Offloading in NOMA-MEC (co-supervision with Prof. Won-Joo Hwang).
    - Current position: QA Project Leader, LG Innotek, Vietnam.

33. **Maurice Nduwayezu**
    - MSc in Telecommunications Engineering, Inje University, 2017/9-2019/8.
    - Thesis: Deep Reinforcement Learning for NOMA-MEC Offloading (co-supervision with Prof. Won-Joo Hwang).
    - Current position: PhD student, Seoul National University of Science and Technology (SeoulTech), Korea.
34. **Girmay Gebremariam**
    - MSc in Telecommunications Engineering, Inje University, 2017/9-2019/8.
    - Thesis: Swarm Intelligence for D2D Communications with Unlicensed Spectrum (co-supervision with Prof. Won-Joo Hwang).

Professional Activities

Membership

- Senior Member of the IEEE, 2023 – Present.
- Member of the IEEE Vehicular Technology Society (VTS), 2023 – Present.
- Member of the IEEE Communication Society (ComSoc), 2022 – Present.
- IEEE CTSoc Wireless and Network Technologies (WNT) Technical Committee, 2022 - Present.
- Member of the IEEE, 2018 – 2023.

Editor / Associate Editor

- IEEE Transactions on Mobile Computing, 2025 – Present.
- IEEE Transactions on Network Science and Engineering, 2025 – Present.
- IEEE Communications Surveys & Tutorials, 2024 – Present (promoted to Associate Editor from 2026).
- IEEE Communications Standards Magazine, 2024 – Present.
- IEEE Communications Letters, 2023 – Present.
- REV Journal on Electronics and Communications, 2023 – Present.
- Journal of Network and Computer Applications, 2020 – 2026.
- Frontiers in Communications and Networks, 2020 – 2022.
- Nature Scientific Reports, 2022 – 2023.

Guest Editor

- IEEE Internet of Things Magazine, Special Issue on Federated Learning for Industrial Internet of Things, 2023 – 2024.
- IEEE Internet of Things Journal, Lead Editor, Special Issue on Aerial Computing for the Internet of Things (IoT), 2021 – 2022.

Invited Referee for Journals

- **Senior Reviewer**: IEEE Open Journal of the Communications Society.
- **IEEE Letters**: IEEE Communications Letters, IEEE Wireless Communications Letters, IEEE Networking Letters.
- **IEEE Transactions/Journals**: IEEE Communications Surveys & Tutorials, IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, IEEE Transactions on Mobile Computing, IEEE Transactions on Cloud Computing, IEEE Transactions on Signal Processing, IEEE Transactions on Services Computing, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Computational Social Systems, IEEE Transactions on Green Communications and Networking, IEEE Transactions on Cognitive Communications and Networking, IEEE Transactions on Signal and Information Processing over Networks, IEEE Transactions on Industrial Informatics, IEEE Transactions on Network Science and Engineering, IEEE Internet of Things Journal, IEEE Journal on Selected Areas in Communications, IEEE Journal of Selected Topics in Signal Processing, IEEE Open Journal of the Communications Society, Proceedings of the IEEE.
- **IEEE Magazines**: IEEE Communications Magazine, IEEE Wireless Communications, IEEE Control Systems Magazine, IEEE Vehicular Technology Magazine, IEEE Computational Intelligence Magazine, IEEE Consumer Electronics Magazine, IEEE Communications Standards Magazine, IEEE Internet Computing.
- **Other Journals**: Nature Communications, ACM Computing Surveys, IEEE Systems Journal, IEEE Access, Computer Networks, Transactions on Emerging Telecommunications Technologies, EURASIP Journal on Wireless Communications and Networking, International Journal of Distributed Sensor Networks, Sensors.
- **Conferences**: Conference on Computer Vision and Pattern Recognition (CVPR), International Conference on Machine Learning (ICML).

General Chair / Organizing Committee

- **2026**:
  - Radioelektronika 2026 (as Research Chair and Invited Speaker).
  - IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD) - as Workshops Co-Chair.
- **2024**: IEEE International Conference on Metaverse (Metaverse 2024)

Workshop Organiser

- **2026**:
  - IEEE Global Communications Conference (GLOBECOM) 2nd workshop on "Quantum Machine Learning for Reliable Communications in Ubiquitous Intelligence of Things".
  - IEEE Global Communications Conference (GLOBECOM) 2nd workshop on "Sustainable AI for Next-Generation Wireless Communications and Networking".
- **2025**:
  - IEEE Global Communications Conference (GLOBECOM) workshop on "Quantum Machine Learning for Reliable Communications in Ubiquitous Intelligence of Things".
  - IEEE Global Communications Conference (GLOBECOM) workshop on "Sustainable AI for Next-Generation Wireless Communications and Networking".
  - IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) workshop on "Machine Learning Empowered Optical Communications".

TPC Chair/Co-Chair/Track Chair

- **2026**:
  - The Research, Innovation and Vision for the Future (RIVF) Conference (TPC Chair).
  - 17th International Conference on Ubiquitous and Future Networks (Track 2 - Communications and Networks for B5G and 6G).
- **2023**: 12th International Symposium on Information and Communication Technology (SoICT 2023), IEEE GLOBECOM 2023 workshop on "Edge Learning over Next-Generation Networks".
- **2022**: 11th EAI International Conference on Game Theory for Networks (EAI GameNets 2022), ICIT 2022, 11th International Symposium on Information and Communication Technology (SoICT 2022), IEEE International Conference on Advanced Technologies for Communications (ATC).

Publicity Chair/Co-Chair

- **2023**: International Conference on Wireless Communications and Signal Processing (WCSP 2023).

Technical Program Committee

- **2025**: IEEE International Conference on Network Protocols (ICNP 2025), IEEE LCN 2025 Special Track on Large Language Models and Networking (LLMN).
- **2024**: IEEE International Conference on Communications (ICC), The 13th Conference on Information Technology and its Applications (CITA), IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), IFIP/IEEE International Federation for Information Processing (IFIP) Networking, IEEE 100th Vehicular Technology Conference (VTC2024-Fall), IEEE International Conference on Network Protocols (ICNP 2024).
- **2023**: IEEE International Conference on Communications (ICC), IEEE Wireless Communications and Networking Conference (WCNC), IEEE VTC2023-Fall.
- **2022**: IEEE International Conference on Communications (ICC), IEEE Wireless Communications and Networking Conference (WCNC).
- **2021**: IEEE 94th Vehicular Technology Conference (VTC2021-Fall), IEEE International Smart Cities Conference (ISC2), EAI International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (EAI Qshine), IEEE Global Communications Conference (GLOBECOM).
- **2020**: ICCIS, IEEE Wireless Communications and Networking Conference (WCNC), IEEE International Conference on Communications (ICC), IEEE 91st Vehicular Technology Conference (VTC2020-Spring), IEEE Workshop on Security Trust Privacy in Emerging Cyber-Physical Systems (STP-CPS).

Invited Book Reviewer

- Wiley, Springer, IEEE.

Proposal Evaluator

- Global Excellence Initiative (GEI) Review - Sloan Research Fellowships
- Natural Sciences and Engineering Research Council of Canada (NSERC)
- National Research Foundation of Korea (NRF)
- Vietnam National Foundation for Science and Technology Development (NAFOSTED)

- Programme SASPRO 2
- Dutch Research Council (NWO)
- Czech Science Foundation (GACR)

Thesis Evaluator/Reader

- University of Sydney, Australia, 2025.
- Nazarbayev University, Kazakhstan, 2025.
- School of Computer Science and Statistics, Trinity College Dublin, 2023–Present.
- School of Information and Communication Technology, Hanoi University of Science and Technology, 2023.
- National University of Sciences and Technology (NUST), Pakistan, 2023, 2024, 2025.

Advisor for Scholarship and Fellowship Applications

- Korean Government Scholarship Program.
- Korea Research Foundation Postdoctoral Fellowship for Foreigners.
- Individual Professor Scholarships in Korea and Japan.

Invited/Tech Talk

- Invited Talk, “Rethinking Forgetting: Verifiable & Federated On-server Unlearning," ENSURE-6G Workshop on AI for 6G Security, University of Sri Jayewardenepura, Sri Lanka, 09 July 2026.
- Invited Talk, “Rethinking Forgetting: Advances in Federated Machine Unlearning," International Workshop on Advancements in AI for Next-Generation Wireless Communications, Ulster University, UK, 15th April 2026.
- Invited Talk, “Federated Machine Learning: Fundamentals and Advances," ACML Reliable and Trustworthy Artificial Intelligence Workshop, Taipei, Taiwan, 12th October 2025.
- Invited Talk, “Federated Machine Learning: Fundamentals and Advances," SnT, University of Luxembourg, 28th October 2025.
- Tech Talk, “Scalable Federated Learning Networks," SFI CONNECT - Sligo Workshop, September 6th 2024.
- Invited Talk, “Edge Computing: From Computing at the Edge to Edge Intelligence," University of Ulsan, Korea, July 11th 2023.
- Invited Talk, “6G Frontiers: Towards Future Wireless Systems," University of Ulsan, Korea, June 29th 2023.
- Invited Talk, “Wirelessly Powered Federated Learning Networks: Joint Power Transfer, Data Sensing, Model Training, and Resource Allocation," Pusan National University, Korea, June 23rd 2023.
- Invited Talk, “Communication-Efficient Federated Learning over Massive Internet-of-Things," University of Ulsan, Korea, June 22nd 2023.
- Online Invited Talk, “Communication-Efficient Federated Learning over Massive Internet-of-Things," Le Quy Don University, Vietnam, May 19th 2023.
- Keynote (with Prof. Won-Joo Hwang), “Multi-Access Edge Computing in 5G Networks and Beyond," SmartCom 2018, Bangkok, Thailand, October 31st 2023.

Publications

Books

[B1] C. de Alwis, **Q.-V. Pham**, and M. Liyanage, *6G Frontiers: Towards Future Wireless Systems*, Wiley-IEEE Press, Oct. 2022.

Book Chapters

[B-C1] N. V. Huynh, T. Huynh-The, and **Q.-V. Pham**, "Future AI-empowered Communications Systems," in *Generative AI for Communications Systems: Fundamentals, Applications, and Prospects*, Wiley-IEEE Press, Jan. 2026.

[B-C2] P. Hegde, R. Chengoden, N. Victor, T. Huynh-The, S. Bhattacharya, P. K. R. Maddikunta, T. R. Gadekallu, and **Q.-V. Pham**, "Blockchain for the Metaverse: State-of-the-Art and Applications," in *Metaverse Communication and Computing Networks: Applications, Technologies, and Approaches*, Wiley-IEEE Press, 2023.

[B-C3] T. Huynh-The, **Q.-V. Pham**, X.-Q. Pham, T. Do-Duy, and T. R. Gadekallu, "AI and Computer Vision Technologies for Metaverse," in *Metaverse Communication and Computing Networks: Applications, Technologies, and Approaches*, Wiley-IEEE Press, 2023.

[B-C4] **Q.-V. Pham**, T. Huynh-The, M. Zeng, Z. Yang, Z. Ding, and W.-J. Hwang, "The Emergence of Aerial Computing: Applications and Challenges," in *6G Wireless: The Communication Paradigm Beyond 2030*, CRC Press, 2023.

[B-C5] M. Zeng, E. Bedeer, X. Li, **Q.-V. Pham**, O. A. Dobre, P. Fortier, and L. A. Rusch, "IRS-Empowered Wireless Communications: State-of-the-Art, Key Techniques, and Open Issues," in *6G Wireless: The Communication Paradigm Beyond 2030*, CRC Press, 2023.

[B-C6] **Q.-V. Pham**, Z. Yang, C. Huang, Q. Yang, T. Guo, Y. Xu, and Z. Zhang, "Machine Learning for UAV Communication-Assisted Computing Networks," in *Secure and Digitalized Future Mobility*, CRC Press, 2022.

[B-C7] **Q.-V. Pham**, D. C. Nguyen, T. Huynh-The, W.-J. Hwang, and P. N. Pathirana, "Artificial intelligence and big data for COVID-19 and social distancing," in *Enabling Technologies for Social Distancing: Fundamentals, concepts and solutions*, IET Digital Library, 2022.

[B-C8] D. C. Nguyen, **Q.-V. Pham**, M. Ding, P. N. Pathirana, and A. Seneviratne, "Security, privacy and blockchain applications in COVID-19 detection and social distancing," in *Enabling Technologies for Social Distancing: Fundamentals, concepts and solutions*, IET Digital Library, 2022.

[B-C9] N.-N. Dao, N.-T. Dinh, **Q.-V. Pham**, T. V. Phan, S. Cho, and T. Braun, "Vulnerabilities in Fog/Edge Computing from Architectural Perspectives," in *Fog/Edge Computing for Security, Privacy, and Applications*, Springer, 2021.

Preprints & Under Review

[P1] M.-D. Nguyen, N. M. Duc, L.-T. Nguyen, D. D. Le, and **Q.-V. Pham**, "ModULE: Learning Modular Expert Representations for Localized Machine Unlearning," submitted, in *International Conference on Learning Representations (ICLR 2027)*, San Francisco, CA, USA, Apr. 2027.

[P2] L. T. Nguyen and **Q.-V. Pham**, "PDF: Path-Dependent Client Selection for Federated Unlearning," submitted, in *International Conference on Learning Representations (ICLR 2027)*, San Francisco, CA, USA, Apr. 2027.

[P3] S. S. McDonnell, **Q.-V. Pham**, and G. M. P. O'Hare, "When Disagreement Fails: A Training-Free Screen for Correlated Failures in Multi-Agent Oversight," in *AAAI Conference on Artificial Intelligence (AAAI) - AI Alignment Track* , Montreal, Canada, Feb. 2027.

[P4] D.-K. Dang, **Q.-V. Pham**, D. D. Le, and M.-D. Nguyen, "Federated Domain Generalization for Semantic Segmentation under Structured Label Noise," submitted, in *AAAI Conference on Artificial Intelligence (AAAI)*, Montreal, Canada, Feb. 2027.

[P5] M. Q. Duong, M.-D. Nguyen, and **Q.-V. Pham**, "KISS: Knowledge Inversion for Server-side Federated Unlearning," submitted, in *AAAI Conference on Artificial Intelligence (AAAI)*, Montreal, Canada, Feb. 2027.

[P6] M.-D. Nguyen, L.-T. Nguyen, D. D. Le, and **Q.-V. Pham**, "Exploiting Client Diversity for Forgetting Mitigation in Heterogeneous Federated Continual Learning: A Spatio-Temporal Gradient Matching Approach," submitted, in *AAAI Conference on Artificial Intelligence (AAAI)*, Montreal, Canada, Feb. 2027.

[P7] Q. V. Do, P. V. Tuan, **Q.-V. Pham**, and I. Koo, "Graph Attention-Aided Multi-Agent Learning for Resource Sharing in Green Aerial Access Networks, under review, *IEEE Wireless Communications Letters*.

[P8] L.-T. Nguyen, M.-D. Nguyen, S.-G. Jeong, D. D. Le, and **Q.-V. Pham**, "FLoRA-NA: Nearly Accurate Aggregation for Federated Low-Rank Adaptation," submitted, in *Annual Meeting of the Association for Computational Linguistics (ACL)*, 2026.

[P9] L. T. Nguyen, N. V. Huynh, and **Q.-V. Pham**, "Cooperate to Compete: Strategic Data Generation and Incentivization Framework for Coopetitive Cross-Silo Federated Learning," under review, *IEEE Transactions on Mobile Computing*.

[P10] C.-K. Tran, V.-D. Nguyen, V.-L. Nguyen, Z. H. Negash, V. N. Ha, A. Zekiye, O. S. Bankaoglu, O. Ozkasap, and **Q.-V. Pham**, "Quantum-assisted Security Vulnerability Detection in Blockchain-based Energy Transaction Models," under review, *IEEE Network*.

[P11] S.-G. Sejong, M. D. Cong, N. X. Tung, **Q.-V. Pham**, and W.-J. Hwang, "Quantum Communication over Non-Terrestrial 6G Networks: Architecture, Applications, and Challenges," under review, *IEEE Communications Standards Magazine*.

[P12] H. Sun, M. Chen, Z. Yang, Y. Cang, and **Q.-V. Pham**, "AirComp-Assisted Split Federated Learning: Delay–Distortion Analysis and Joint Optimization," under review, *IEEE Transactions on Mobile Computing*.

[P13] S.-G. Jeong, M. D. Cong, M.-D. Nguyen, X. T. Nguyen, **Q.-V. Pham**, and W.-J. Hwang, "Trust Region Bayesian Optimization of Annealing Schedules on a Quantum Annealer," under review, *Nature Machine Intelligence*

[P14] M.-D. Nguyen, **Q.-V. Pham**, N. H. Tran, H.-K. Do, D. T. Ngo, and W.-J. Hwang, "Knowledge Abstraction for Knowledge-based Semantic Communication: A Generative Causality Invariant Approach," under review, *IEEE Transactions on Network Science and Engineering*.

[P15] M. Le, **Q.-V. Pham**, M. Zeng, B. O'Sullivan, and H. D. Nguyen, "Radio Resource Optimization in Downlink HAP-RSMA-based THz Systems: A Generative Diffusion Model enabled RL Approach," under review, *IEEE Transactions on Vehicular Technology*.

[P16] T.-H. Vu, **Q.-V. Pham**, and M. Voznak, "Bringing Fairness for Rate-Splitting Enabled Cooperative AF Relaying Systems Under SIC Imperfections," under review, *IEEE Wireless Communications Letters*.

[P17] J. Zhao, M. Chen, M. Le, Z. Yang, and **Q.-V. Pham**, "Dynamic Resource Allocation for Sensing-Aware Sustainable Federated Learning," under review, *IEEE Transactions on Communications*.

[P18] M. A. Hassan, D. T. Hoang, C. T. Nguyen, D. N. Nguyen, **Q.-V. Pham**, and V.-D. Nguyen, "Blockchain-Based Decentralized Authentication Framework for Quantum Resilient Web 3.0 Applications Using Zero-Knowledge-Proof," under review, *IEEE Transactions on Systems, Man and Cybernetics: Systems*.

[P19] M. A. Hassan, D. T. Hoang, C. T. Nguyen, D. N. Nguyen, **Q.-V. Pham**, and V.-D. Nguyen, "A Scalable Decentralized Identity Management Framework for Secure Service Access Using ZKP-Based Biometric Verification," under review, *IEEE Transactions on Emerging Topics in Computing*.

[P20] S.-G. Jeong, M.-D. Nguyen, **Q.-V. Pham**, D. T. Hoang, D. N. Nguyen, and W.-J. Hwang, "Lightweight Quantum Convolutional Neural Networks for NISQ-era Mobile Devices," under review, *IEEE Transactions on Mobile Computing*.

[P21] S.-G. Jeong, M. D. Cong, N. X. Tung, **Q.-V. Pham**, and W.-J. Hwang, "Quantum Annealing-based Hybrid Quantum Computing Framework for Quay Crane Assignment Optimization at Busan Port Terminal," under review, *IEEE Transactions on Intelligent Transportation Systems*.

[P22] N. V. Huynh, B. Zhang, D.-H. Tran, D. T. Hoang, D. N. Nguyen, G. Zheng, and **Q.-V. Pham**, "Dynamic Spectrum Access for Ambient Backscatter Communication-assisted D2D Systems with Quantum Reinforcement Learning," under review, *IEEE Transactions on Vehicular Technology*.

[P23] D.-T. Phan, M.-D. Nguyen, **Q.-V. Pham**, and H. Pi, "Enhancing Gradient Variance and Differential Privacy in Quantum Federated Learning," under review, *IEEE Internet of Things Journal*.

[P24] C. Hao, J. Li, **Q.-V. Pham**, K. Zhi, T. Huynh-The, and M. Gidlund, "Lightweight Linear Multi-Head Attention-Enhanced LSTM for Modulation Classification," under review, *IEEE Transactions on Vehicular Technology*.

[P25] T. Huynh-The, T.-T. Le, and **Q.-V. Pham**, "RF-Segmenter: Toward Efficient Spectrum Awareness for Radar and Wireless Communications," under review, *IEEE Transactions on Vehicular Technology*.

[P26] T.-H. Vu, **Q.-V. Pham**, and M. Voznak, "Bringing Fairness for Rate-Splitting Enabled Cooperative AF Relaying Systems Under SIC Imperfections," under review, *IEEE Transactions on Vehicular Technology*.

[P27] M. Abughalwa, D. N. Nguyen, H. T. Dinh, V.-D. Nguyen, M. Zeng, **Q.-V. Pham**, and E. Dutkiewicz, "Security for Everyone in Finite Blocklength IRS-aided Systems With Perfect and Imperfect CSI," under review, *IEEE Internet of Things Journal*.

[P28] N. C. Luong, N. D. Hai, D. V. Le, H. T. Nguyen, T.-H. Vu, T. Huynh-The, R. Zhang, N. D. D. Anh, D. Niyato, M. D. Renzo, D. I. Kim, and **Q.-V. Pham**, "Diffusion Models for Future Networks and Communications: A Comprehensive Survey," under review, *ACM Computing Surveys*.

[P29] K.-T. Tran, D. Dao, M.-D. Nguyen, **Q.-V. Pham**, B. O'Sullivan, H. D. Nguyen, "Multi-Agent Collaboration Mechanisms: A Survey of LLMs," under review, *ACM Computing Surveys*.

Journal Articles

[J1] X.-T. Nguyen, M.-D. Nguyen, H. D. Nguyen, G. M. P. O'Hare, and **Q.-V. Pham**, "Predictive Intelligence for Future Networks: The Promise of World Models for 6G," *IEEE Consumer Electronics Magazine* (invited paper), early access.

[J2] J. Zhao, Y. Tian, Y. Cang, Z. Yang, **Q.-V. Pham**, and M. Chen, "Latency-Efficient LLM Split Inference with Token Reduction, *IEEE Transactions on Vehicular Technology*, early access.

[J3] D.-H. Nguyen, B. D. Manh, C.-H. Nguyen, D. T. Hoang, D. N. Nguyen, V.-D. Nguyen, and **Q.-V. Pham**, "PRICE: Privacy-Preserving Image Classification in Mobile Edge-Cloud Computing with Homomorphic Encryption," *IEEE Transactions on Mobile Computing*, early access.

[J4] J. Cai, H. Zhang, W. Wang, T. R. Gadekallu, **Q.-V. Pham**, H. Feng, and K. Fang, "FedMLKD: Communication-Efficient Federated Learning for UAV Swarm Flash Flood Segmentation," *IEEE Transactions on Mobile Computing*, early access.

[J5] T. Huynh-The, T.-D. Tran, D. B. da Costa, and **Q.-V. Pham**, "WaFormer: Monotonic Positional Warping for Efficient Signal Waveform Classification in Radar-Communication Systems," *IEEE Wireless Communications Letters*, early access.

[J6] T. Huynh-The, P.-L. Huynh, T.-H. Vu, V.-C. Phan, S. N. Truong, and **Q.-V. Pham**, "Attentive Synergic Tri-stream Additive Network for 5G-LTE-ASR Spectrum Identification," *IEEE Transactions on Vehicular Technology*, early access.

[J7] S.-G. Jeong, M. D. Cong, D.-I. Noh, **Q.-V. Pham**, and W.-J. Hwang, "Embedding-Aware Noise Modeling of Quantum Annealing," *Quantum Information Processing*, vol. 25, no. 10, 2026.

[J8] L. T. Nguyen, H. T. Dinh, D. N. Nguyen, and **Q.-V. Pham**, "Carpe Diem: Critical Learning Period-Aware Contract-Theoretic Incentives for Federated Learning," *IEEE Transactions on Network Science and Engineering*, vol. 13, pp. 10863-10881, 2026.

[J9] M.-D. Nguyen, **Q.-V. Pham**, D. T. Hoang, L. Tran-Thanh, D. N. Nguyen, and W.-J. Hwang, "Exploiting Label-aware Knowledge from Heterogeneous Clients for Hierarchical Federated Learning," *IEEE Transactions on Parallel and Distributed Systems*, vol. 37, no. 7, pp. 1725-1739, Jul. 2026.

[J10] T.-T. Dao, **Q.-V. Pham**, T. Huynh-The, and W.-J. Hwang, "Transformer Model Embedding Dual Stream for Modulation Classification of Short Signal Samples," *ACM Transactions on Intelligent Systems and Technology*, vol. 17, no. 3, pp. 1-25, Jun. 2026.

[J11] N.-H. Mai, S. N. Truong, **Q.-V. Pham**, and T. Huynh-The, "Learning Spectral Structures: Efficient Segmentation via Hierarchical Kernel Attention," *IEEE Wireless Communications Letters*, vol. 15, pp. 3866-3870, Jun. 2026.

[J12] H. Feng, E. Bedeer, M. Zeng, X. Li, S. Gong, and **Q.-V. Pham**, "Phase-Aware Localization in Pinching Antenna Systems: CRLB Analysis and ML Estimation," *IEEE Communications Letters*, vol. 30, pp. 2412-2416, Jun. 2026.

[J13] T.-H. Vu, N. H. Tu, T. Huynh-The, K. Lee, S. Kim, M. Voznak, and **Q.-V. Pham**, "Integration of TinyML and LargeML: A Survey of 6G and Beyond," *IEEE Internet of Things Journal*, vol. 13, no. 10, pp. 20558-20582, May 2026.

[J14] T. D. Gian, T. T. Dung, **Q.-V. Pham**, L.-N. Tran, and V.-D. Nguyen, "Multimodal Human Pose Estimation: A Wi-Fi-Driven Approach with Adaptive Kernel Selection," *IEEE Transactions on Artificial Intelligence*, vol. 7, no. 5, pp. 2941-2955, May 2026.

[J15] T. Huynh-The, N.-H. Mai, **Q.-V. Pham**, and H.-T. P. Dang, "Denoise2Seg: A Deep Denoising-Segmentation Model for Interference-Resilient Spectrum Sensing," *IEEE Wireless Communications Letters*, vol. 15, pp. 3119-3123, May 2026.

[J16] H.-T. P. Dang, H.-T. Nguyen, **Q.-V. Pham**, V.-C. Pham, and T. Huynh-The, "Compact Spectrum Sensing with RPNet+CLRu: Reducing Model Size for 5G-LTE Signal Identification," *IEEE Transactions on Vehicular Technology*, vol. 75, no. 4, pp. 5819-5830, Apr. 2026.

[J17] T. Huynh-The, **Q.-V. Pham**, S. N. Truong, V.-C. Phan, P.-T. Huynh, "RecSpecUNet: A Recycled and Selective Architecture for Efficient Spectrogram Segmentation," *IEEE Communications Letters*, vol. 30, pp. 1592-1596, Mar. 2026.

[J18] H.-L. Huynh, H.-T. Nguyen, V.-C. Pham, **Q.-V. Pham**, B. da Costa, and T. Huynh-The, "ASTRA-Net: Adaptive Spectro-Temporal Robust Architecture for Spectrum Sensing," *IEEE Wireless Communications Letters*, vol. 15, pp. 1926-1930, Feb. 2026.

[J19] L. T. Nguyen, M. T. de Oliveira, A. Braeken, A. Y. Ding, and **Q.-V. Pham**, "Towards Verifiable Federated Unlearning: Framework, Challenges, and The Road Ahead," *IEEE Internet Computing*, vol. 30, no. 1, pp. 59-70, Jan.-Feb. 2026.

[J20] T. R. Gadekallu, **Q.-V. Pham**, T. Huynh-The, S. Bhattacharya, P. K. R. Maddikunta, M. Liyanage, and T. T. Nguyen, "Federated Learning for Big Data: A Survey on Opportunities, Applications, and Future Directions," *Engineering Applications of Artificial Intelligence*, vol. 16, pp. 113614, Feb. 2026.

[J21] A. Braeken, D. Deac, T. L. Nguyen, G. Gür, **Q.-V. Pham**, C. Yapa, P. G. Vinueza-Naranjo, H. C. Mora, C. Moremada, M. Liyanage, "6G AI Security: From Fundamentals to Offensive and Defensive Landscape in 6G," *IEEE Communications Surveys & Tutorials*, vol. 28, pp. 4765-4799, 2026.

[J22] N. C. Luong, T. Huynh-The, T.-H. Vu, D. V. Le, H. T. Nguyen, N. D. Hai, G.-V. Nguyen, N. D. D. Anh, D. Niyato, D. I. Kim, and **Q.-V. Pham**, "Advanced Learning Algorithms for Integrated Sensing and Communication (ISAC) Systems in 6G and Beyond: A Comprehensive Survey," *IEEE Communications Surveys & Tutorials*, vol. 28, pp. 2572-2611, 2026.

[J23] H.-T. P. Dang, H.-T. Nguyen, **Q.-V. Pham**, V.-C. Phan, and T. Huynh-The, "Adversarial Training Approach for Signal Identification in 5G-LTE Spectrum Sensing," *IEEE Wireless Communications Letters*, vol. 15, pp. 390-394, 2026.

[J24] T.-H. Vu, M. Zeng, S. Kim, H. V. Poor, and **Q.-V. Pham**, "Short-Packet Communications: Recent Advances and Research Challenges," *IEEE Network*, vol. 40, no. 4, pp. 268-275, 2026.

[J25] M. Zeng, J. Wang, W. Hao, Z. Chu, W. Xie, and **Q.-V. Pham**, "Recent Advances in Near-Field Beam Training and Channel Estimation for XL-MIMO Systems," *Advanced Information and Communication*, 2026.

[J26] S. Pakravan, M. Ahmadzadeh, M. Zeng, Z. Yang, G. A. Hodtani, J.-Y. Chouinard, and **Q.-V. Pham**, "Fluid Antenna-Assisted Uplink NOMA Networks under Imperfect SIC," *IEEE Transactions on Vehicular Technology*, vol. 75, no. 1, pp. 1689-1694, Jan. 2026.

[J27] N.-M. Luu, M.-D. Nguyen, E. B. Mohamed, V.-D. Nguyen, D. T. Hoang, D. N. Nguyen, and **Q.-V. Pham**, "Energy-Efficient and Real-Time Sensing for Federated Continual Learning via Sample-Driven Control," *IEEE Transactions on Mobile Computing*, vol. 25, no. 1, pp. 372-387, Jan. 2026.

[J28] M. Alishahi, M. Zeng, P. Fortier, O. Waqar, M. Hanif, D. T. Hoang, D. N. Nguyen, and **Q.-V. Pham**, "Efficient STAR-RIS Mode for Energy Minimization in WPT-FL Networks with NOMA," *IEEE Transactions on Communications*, vol. 73, no. 12, pp. 15583-15598, Dec. 2025.

[J29] J. Zhao, M. Chen, Z. Yang, Y. Pan, D. Niyato, and **Q.-V. Pham**, "Resource Allocation for Semantic-Aware Wireless Communication Networks with Imperfect CSI, *IEEE Transactions on Wireless Communications*, vol. 24, no. 12, pp. 9840-9853, Dec. 2025.

[J30] T. Huynh-The, H.-T. Nguyen, T.-H. Vu, D. B. da Costa, and **Q.-V. Pham**, "D2SNet: A Denoising-to-Segmentation Network for Enhanced 5G-LTE Spectrum Awareness," *IEEE Wireless Communications Letters*, vol. 14, no. 12, pp. 3942-3946, Dec. 2025.

[J31] T. Huynh-The, P.-T. Huynh, and **Q.-V. Pham**, Spec-YOLO: An Efficient Deep Network for Spectrogram-based Signals Identification," *IEEE Wireless Communications Letters*, vol. 14, no. 11, pp. 3550-3554, Nov. 2025.

[J32] H. L. Hung, N. H. Huy, N. C. Luong, **Q.-V. Pham**, D. Niyato, N. T. Hoa, "Beamforming Design for Physical Security in Movable Antenna-aided ISAC Systems: A Reinforcement Learning Approach," *IEEE Transactions on Vehicular Technology*, vol. 74, no. 11, pp. 18163-18167, Nov. 2025.

[J33] M. Huang, F. Gong, J. Zhao, Z. Yin, X. Li, and **Q.-V. Pham**, "Secure Precoding Design for RSMA Transmission in HAP-Assisted Non-Terrestrial Networks," *IEEE Transactions on Vehicular Technology*, vol. 74, no. 9, pp. 14876-14881, Sep. 2025.

[J34] Q. V. Do, **Q.-V. Pham**, Z. Yang, and W.-J. Hwang, "Learning-Based QoE Optimization for Green Edge Computing Networks with Aerial Servers," *IEEE Transactions on Green Communications and Networking*, vol. 9, no. 3, pp. 1326-1339, Sep. 2025.

[J35] T.-H. Vu, D. B. da Costa, S. Kim, and **Q.-V. Pham**, "Outage, Capacity, and Error Performance of Downlink RSMA-based Systems: Analysis and Resource Optimization," *IEEE Transactions on Communications*, vol. 73, no. 8, pp. 6868-6883, Aug. 2025.

[J36] H.-T. Nguyen, H.-T. P. Dang, **Q.-V. Pham**, and T. Huynh-The, "Resolution-Preserving Multi-Scale Network for 5G-LTE Spectrogram-based Spectrum Sensing," *IEEE Wireless Communications Letters*, vol. 14, no. 6, pp. 1673-1677, Jun. 2025.

[J37] S.-G. Jeong, P. D. A. Duc, Q.-V. Do, D.-I. Noh, N. X. Tung, T. V. Chien, **Q.-V. Pham**, M. Hasegawa, H. Sekiya, and W.-J. Hwang, "Quantum Annealing-Based Sum Rate Maximization for Multi-UAV-Aided Wireless Networks," *IEEE Internet of Things Journal*, vol. 12, no. 12, pp. 21225-21239, Jun. 2025.

[J38] B. D. Manh, C.-H. Nguyen, D. T. Hoang, D. N. Nguyen, M. Zeng, and **Q.-V. Pham**, "Privacy-Preserving Cyberattack Detection in Blockchain-Based IoT Systems Using AI and Homomorphic Encryption," *IEEE Internet of Things Journal*, vol. 12, no. 11, pp. 16478-16492, Jun. 2025.

[J39] B. Zhang, N. V. Huynh, D. T. Hoang, D. N. Nguyen, and **Q.-V. Pham**, "DDPG-E2E: A Novel Policy Gradient Approach for End-to-End Communication Systems," *IEEE Transactions on Cognitive Communications and Networking*, vol. 11, no. 3, pp. 1738-1751, Jun. 2025.

[J40] R. Ruby, B. M. ElHalawany, **Q.-V. Pham**, K. Wu, and L. Wang, "Impact of UAV-Based Transmitter Mobility on Physical Layer Security," *IEEE Transactions on Information Forensics and Security*, vol. 20, pp. 5604-5619, May 2025.

[J41] M.-D. Nguyen, Q.-V. Do, Z. Yang, **Q.-V. Pham**, and W.-J. Hwang, "Distortion Resilience for Goal-Oriented Semantic Communication," *IEEE Transactions on Mobile Computing*, vol. 24, no. 5, pp. 3489-3501, May 2025.

[J42] K. Do, M.-D. Nguyen, T. H. Nguyen, L. Tran-Thanh, N. H. Tran, and **Q.-V. Pham**, "Revisiting LARS for Large Batch Training Generalization of Neural Networks," *IEEE Transactions on Artificial Intelligence*, vol. 6, no. 5, pp. 1321-1333, May 2025.

[J43] M. Le, T. Huynh-The, T. Do-Duy, T.-H. Vu, and W.-J. Hwang, and **Q.-V. Pham**, "Applications of Distributed Machine Learning for the Internet-of-Things: A Comprehensive Survey," *IEEE Communications Surveys & Tutorials*, vol. 27, no. 2, pp. 1053-1100, Apr. 2025.

[J44] O. Aouedi, T.-H. Vu, A. Alessio, D. C. Nguyen, K. Piamrat, G. Marchetto, and **Q.-V. Pham**, "A Survey on Intelligent Internet of Things: Applications, Security, Privacy, and Future Directions," *IEEE Communications Surveys & Tutorials*, vol. 27, no. 2, pp. 1238-1292, Apr. 2025.

[J45] M. Alishahi, P. Fortier, M. Zeng, X. Li, T. Huynh-The, and **Q.-V. Pham**, "Latency Minimization for STAR-RIS aided Wireless Power Transfer Federated Learning Networks with NOMA," *IEEE Internet of Things Journal*, vol. 12, no. 7, pp. 8508-8522, Apr. 2025.

[J46] M. Alishahi, P. Fortier, M. Zeng, **Q.-V. Pham**, and T. Huynh-The, "Total Computational bits Maximization for STAR-RIS aided Wireless Power Transfer Mobile Edge Computing Networks: TDMA or NOMA?," *IEEE Transactions on Vehicular Technology*, vol. 74, no. 2, pp. 3345-3358, Feb. 2025

[J47] T. Huynh-The, G.-V. Nguyen, T.-H. Vu, D. B. da Costa, and **Q.-V. Pham**, "SRNet: Deep Semantic Segmentation Network for Spectrum Sensing in Wireless Communications," *IEEE Wireless Communications Letters*, vol. 14, no. 2, pp. 355-359, Feb. 2025.

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Languages

Vietnamese:	Mother-tongue
English:	Fluent
Korean:	Basic Knowledge

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