Linh T. Hoang

Personal Nationality : Vietnamese

Information Gender : Male

305-E Research Quadrangles,

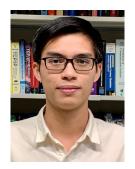
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Oct. 2021 – now

The University of Aizu (UoA), Japan

Ph.D. Candidate, Computer Science and Engineering

Advised by Prof. Anh T. Pham

Research theme : Learning-based resource management for mobile edge computing in next-generation

cellular networks

The University of Aizu (UoA), Japan

Oct. 2019 - Sep. 2021

M.Sc. in Computer Science and Engineering

Advised by Prof. Anh T. Pham Cumulative GPA: 4.0/4.0

Title of Thesis: "A Slotted Access-Inspired Group Paging Scheme for Resource Efficiency in Cellular Machine-Type Communications (MTC) Networks"

Hanoi University of Science and Technology (HUST), Vietnam

Sep. 2013 - Aug. 2018

B.Eng. in Electronics and Telecommunications (Talented Engineering Program)

First-class Honors (Top 3% out of 423 students)

Title of Thesis: "Design and Analysis of A Novel Identification Protocol for Passive Radio Frequency Identification (RFID) Systems"

Specilization

Education

Mobile Edge Computing, Stochastic Network Optimization, Wireless Communications and Networking

Publications

Journal Articles (Refereed-ISI)

- 1. **Linh T. Hoang**, Anh-Tuan H. Bui, Chuyen T. Nguyen, and Anh T. Pham, "A Slotted Access-Inspired Group Paging Scheme for Resource Efficiency in Cellular MTC Networks", *IEICE Transactions on Communications*. Vol.E105-B, No.8, pp.-, Aug. 2022
- 2. Chuyen T. Nguyen, Tuyen T. Hoang, Linh T. Hoang, and Vu X. Phan, "Efficient Missing-Tag Event Detection Protocols to Cope with Unexpected Tags and Detection Error in RFID Systems," Wireless Communications and Mobile Computing, vol. 2019, Article ID 6218671, Feb. 2019.
- 3. **Linh T. Hoang**, Anh T. Pham, and Chuyen T. Nguyen, "Design and Analysis of a Novel Timeand Energy- Efficient M-ary Tree Protocol with Collision Window for Dense RFID Systems," *IEEE Access* Special section on RFID and security techniques, Sep. 2018.

Conference Papers (Refereed-IEEE Conference Proceedings)

- 1. **Linh T. Hoang**, Chuyen T. Nguyen, Peng Li, and Anh T. Pham, "Joint Uplink and Downlink Resource Allocation for UAV-enabled MEC Networks under User Mobility", *In the Proc. of The IEEE International Conference on Communications* (**ICC'22**), *Workshop on Integrating UAVs into 5G and Beyond*, Seoul, South Korea, May 2022.
- 2. **Linh T. Hoang**, Anh-Tuan H. Bui, Chuyen T. Nguyen, and Anh T. Pham, "A Novel Virtual Small Cell-Based Group-Paging Scheme for Massive MTCs over LTE Networks", *In the Proc. of the 2020 IEEE/CIC International Conference on Communications in China* (**ICCC'20**), Chongqing, China, 9-11 August 2020.
- 3. **Linh T. Hoang**, Chuyen T. Nguyen, and Anh T. Pham, "A Novel Time- and Energy-Efficient Tag Identification Protocol in Dense RFID Systems," *In Proc. of The Seventh IEEE International Conference on Communications and Electronics* (**ICCE 2018**), Hue, Vietnam, July 2018.

Honors, Awards, & Fellowships

- **Japanese Government's Scholarship (Monbukagakusho : MEXT)** for a three-year Doctoral Program at the University of Aizu, Japan Oct. 2021 now.
- **Japanese Government's Scholarship (Monbukagakusho : MEXT)** for a two-year Master's Program at the University of Aizu, Japan *Oct. 2019 Sep. 2021.*
- Honda Young Engineers and Scientists (Honda Y-E-S) and Honda Y-E-S Plus Awards, awarded by Honda Foundation, for students who have excelled in the area of technology and engineering and are potential leaders in the area of eco-technology for sustainable development at developing countries in Asia including Vietnam, India, Laos, Cambodia and Myanmar Dec. 2018
- Distinguished Student Awards for Undergraduate Study by Dean of School of Electronics and Telecommunications and President of HUST
 2014 2018
- Lawrence S. Ting scholarship for students with outstanding achievements for undergraduate study
 Nov. 2016

Proffesional Memberships **Graduate Student Member** of the Institute of Electrical and Electronics Engineers (**IEEE**), IEEE Communications Society (**IEEE ComSoc**), and IEEE Young Professionals

Mar. 2020 – now

Professional Experience

Research Assistant at Computer Communications Laboratory (CCL), UoA

Oct. 2019 – now

Advised by Prof. Anh T. Pham

Research theme: seeking data-driven solutions for resource allocation optimization of mobile edge computing in next-generation cellular networks.

Research Assistant at Communication Theory and Application Research Group (CTARG), HUST *Oct.* 2017 – Sep. 2019

Advised by Prof. Chuyen T. Nguyen

Research theme: Medium access control (MAC) protocols for Radio Frequency Identification (RFID) systems. The proposed MAC protocols aim at improving the time and energy performance of RFID tag identification protocols under non-ideal channel conditions.

Teaching Assistant

FU02 Information Theory and Data Compression, UoA CN04 Wireless Networking, UoA CN02 Network Security, UoA

Winters 2020, 2021, 2022 Winters 2021, 2022 Springs 2021, 2022

Training & Workshops Attended

Global Korea Scholarship (GKS) for ASEAN Countries' Science and Engineering Students, funded by the National Institute for International Education (NIIED), for in-depth academic training in science and engineering fields at Chung-Ang University $Jul.\ 10th-Aug.\ 11th,\ 2017$

Temasek Foundation International Specialists' Community Action and Leadership Exchange (TFI-SCALE) Program, funded by Temasek Foundation, Singapore and held at Temasek Polytechnic Institution (Sep. 18th – Oct. 8th, 2017) and Vietnam (Mar. 18th – Mar. 31st, 2018)

Relevant Skills Languages skills: English (Proficient), Japanese (Basic), Vietnamese (Native)

Programming skills : C/C++, Python

Scientific tools: Matlab, Python SciPy, OriginLab, Mathematica

References

Professor Anh T. Pham

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Email: pham@u-aizu.ac.jp

Website: http://web-ext.u-aizu.ac.jp/labs/ce-cc/

Associate Professor Chuyen T. Nguyen

Head of Communication Theory and Application Research Group

Hanoi University of Science and Technology, Vietnam

Email: chuyen.nguyenthanh@hust.edu.vn

Site: https://sites.google.com/site/ntchuyenkyoto/