

# Quan La Van

Computer Science

## Personal Information

Date of Birth November 17th, 1995  
Gender Male  
Mobile (+84) 397 211 659  
Email lavanquan.kstn.cntt@gmail.com

## Education

- 2020–2022 **Master of Data Science and Artificial Intelligence**, *Hanoi University of Science and Technology, Vietnam.*
- CPA: 3.8
  - Thesis: An Efficient, On-demand Charging for WRSNs Using Fuzzy Logic and Q-Learning
  - Supervisor: Dr. Nguyen Phi Le
- 2013–2018 **Bachelor of Computer Science**, *Talented Engineering Program of Information Technology, Hanoi University of Science and Technology, Vietnam.*
- CPA: 3.31
  - Thesis: Metaheuristics for maximization of obstacles constrained area coverage in heterogeneous wireless sensor networks
  - Supervisor: Associate Professor. Huynh Thi Thanh Binh
- 2010–2013 **Student** at *Bac Giang Gifted High School, Vietnam.*

## Experience

- 5/2022–Now **Lecturer**, *School of Computer Science, Phenikaa University.*
- 2020–2022 **Research Assistant**, *AIoT Laboratory, Hanoi University of Science and Technology.*
- Mentor: Dr. Nguyen Phi Le
  - Task: Wireless Rechargeable Sensor Networks
- 2018–2020 **Algorithm Engineer**, *Abivin Corporation, Vietnam.*
- Mentor: Mr. Pham Nam Long
  - Task: Logistic Problems
- 7–8/2018 **Exchange Student**, *National Institute of Informatics - NII, Tokyo, Japan.*
- Mentor: Prof. Yusheng Ji
  - Task: Wireless Sensor Networks
- 7–8/2017 **Exchange Student**, *Tokyo Agriculture and Technology University, Tokyo, Japan.*
- Mentor: Prof. Keiichi Kaneko
  - Task: Hypercube

- 2014–2018 **Research Assistant**, *Modeling, Simulation and Optimization Laboratory*, Hanoi University of Science and Technology.
- Supervisor: Prof. Huynh Thi Thanh Binh
  - Task: Wireless Sensor Networks

---

## Achievements & Honors

- 12/2017 **2nd place award** in *National Science Research Conference for Students*, Ministry of Education Training.
- 5/2017 **1st place award** in *Science Research Conference for Students*, Hanoi University of Science and Technology.
- 12/2012 **3rd place award** in *Mathematics in Vietnamese Mathematical Olympiads in 2012-2013*
- 9/2017 *Awarded by IEEE Region 10 HTA Project Grant.*
- 8/2017 **Team member, top 10 projects** across the world nominated by All IEEE Young Engineers Humanitarian Challenge (**AIYEHUM**), “*Guaranteeing coverage and connectivity tolerance in different architectures of wireless sensor networks for disaster monitoring*”

---

## Publications

- [1] Huynh Thi Thanh Binh, Nguyen Thi Hanh, **La Van Quan**, and Nilanjan Dey. Improved cuckoo search and chaotic flower pollination optimization algorithm for maximizing area coverage in wireless sensor networks. *Neural computing and applications*, 30(7):2305–2317, 2018.
- [2] Huynh Thi Thanh Binh, Nguyen Thi Hanh, **La Van Quan**, Nguyen Duc Nghia, and Nilanjan Dey. Metaheuristics for maximization of obstacles constrained area coverage in heterogeneous wireless sensor networks. *Applied Soft Computing*, 86, 2020.
- [3] Phi Le Nguyen, **La, Van Quan**, Anh Duy Nguyen, Thanh Hung Nguyen, and Kien Nguyen. An on-demand charging for connected target coverage in wsn using fuzzy logic and q-learning. *Sensors*, 21(16), 2021.
- [4] **L. Van Quan**, T. Hung Nguyen, P. Le Nguyen, and K. Nguyen. Q-learning-based, optimized on-demand charging algorithm in wsn. In *The 19th IEEE International Symposium on Network Computing and Applications (NCA 2020)*, pages 1–6, 2020.
- [5] **Van Quan, La**, Thanh Hung Nguyen, and Phi Le Nguyen. Extending network lifetime by exploiting wireless charging in wsn. In *2020 RIVF International Conference on Computing and Communication Technologies (RIVF)*, pages 1–6, 2020.
- [6] **Van Quan, La**, Minh Hieu Nguyen, Thanh Hung Nguyen, Kien Nguyen, and Phi Le Nguyen. On the global maximization of network lifetime in wireless rechargeable sensor networks. *ACM Trans. Sen. Netw.*, jan 2022.

---

## Technical Skills

Programming C/C++, Java, Python

Database MySQL, PostgreSQL, MongoDB

---

## Reference

**Associate Professor. Huynh Thi Thanh Binh**

Vice Dean of School of Information and Communication Technology

Head of Modeling, Simulation and Optimization Lab

Hanoi University of Science and Technology

Homepage: <https://users.soict.hust.edu.vn/binhht/>

E-mail: [binhht@soict.hust.edu.vn](mailto:binhht@soict.hust.edu.vn)

**Associate Professor. Ngo Hong Son**

Dean of Computer Science Department

Phenikaa University

E-mail: [son.ngohong@phenikaa-uni.edu.vn](mailto:son.ngohong@phenikaa-uni.edu.vn)