



Research profile

Qualifications

Computer Science, Master Degree, Seoul National University

1 Mar 2016 → 1 Aug 2018

Award Date: 15 Jul 2018

Telecommunication, Bachelor, Hanoi University of Science and Technology

1 Sep 2010 → 1 Jun 2015

Award Date: 1 Jun 2015

Electronics Systems, Ph.D

1 Jan 2020 → 1 Jun 2022

Employment

Connected Intelligence

The Technical Faculty of IT and Design

1 Feb 2021 → present

Research outputs

Neonatal prophylactic antibiotics after preterm birth affect plasma proteome and immune development in pigs

Muk, T., Leto, A., Brunse, A., Stensballe, A., Thymann, T., Sangild, P. T. & Nguyen, D. N., 17 Feb 2023, (E-pub ahead of print) In: *Pediatric Research*.

FedToken: Tokenized Incentives for Data Contribution in Federated Learning

Pandey, S. R., Nguyen, L. D. & Popovski, P., 2023, (Accepted/In press) *FL-NeurIPS 2022*.

Analysis of distributed ledger technologies for industrial manufacturing

Nguyen, L. D., Bröring, A., Pizzol, M. & Popovski, P., 27 Oct 2022, In: *Scientific Reports*. 12, 1, 11 p., 18055.

A Contribution-Based Device Selection Scheme in Federated Learning

Pandey, S. R., Nguyen, L. D. & Popovski, P., 1 Sep 2022, In: *IEEE Communications Letters*. 26, 9, p. 2057-2061 5 p.

Learning, Computing, and Trustworthiness in Intelligent IoT Environments: Performance-Energy Tradeoffs

Soret, B., Nguyen, L. D., Seeger, J., Bröring, A., Ben Issaid, C., Samarakoon, S., El Gabli, A., Kulkarni, V., Bennis, M. & Popovski, P., 1 Mar 2022, In: *IEEE Transactions on Green Communications and Networking*. 6, 1, p. 629-644 16 p.

Blockchain for Internet of Things: Data Markets, Learning, and Sustainability

Nguyen, D. L., 2022, Aalborg Universitetsforlag. 150 p. (Ph.d.-serien for Det Tekniske Fakultet for IT og Design, Aalborg Universitet).

Containing Future Epidemics With Trustworthy Federated Systems for Ubiquitous Warning and Response

Carrillo, D., Nguyen, D. L., Henrique Juliano Nardelli, P., Pournaras, E., Morita, P., Z. Rodríguez, D., Dzaferagic, M., Siljak, H., Jung, A., Hébert-Dufresne, L., Macaluso, I., Ullah, M., Fraidenraich, G. & Popovski, P., 13 May 2021, In:

Frontiers in Communications and Networks. 2, 12 p., 621264.

B-ETS: A Trusted Blockchain-based Emissions Trading System for Vehicle-to-Vehicle Networks

Nguyen, D. L., Lewis, A., Leyva-Mayorga, I., Regan, A. & Popovski, P., 7 May 2021, *7th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS 2021)*. SCITEPRESS Digital Library, Vol. 1. p. 171-179 9 p.

Modeling and Analysis of Data Trading on Blockchain-based Market in IoT Networks

Nguyen, L. D., Leyva-Mayorga, I., Lewis, A. & Popovski, P., 7 Apr 2021, In: *IEEE Internet of Things Journal*. 8, 8, p. 6487-6497 11 p., 9324804.

Containing Future Epidemics with Trustworthy Federated Systems for Ubiquitous Warning and Response

Nguyen, D. L., 26 Oct 2020

Witness-based Approach for Scaling Distributed Ledgers to Massive IoT Scenarios

Nguyen, L. D., Leyva-Mayorga, I. & Popovski, P., 13 Oct 2020, *2020 IEEE 6th World Forum on Internet of Things (WF-IoT)*. IEEE, 6 p. 9221269

Trusted Wireless Monitoring Based on Distributed Ledgers over NB-IoT Connectivity

Nguyen, L., Kalør, A. E., Leyva-Mayorga, I. & Popovski, P., 15 Jul 2020, In: *IEEE Communications Magazine*. 58, 6, p. 77-83 7 p., 9141220.

Communication Aspects of the Integration of Wireless IoT Devices with Distributed Ledger Technology

Danzi, P., Kalør, A. E., Sørensen, R. B., Hagelskjær, A. K., Nguyen, D. L., Stefanovic, C. & Popovski, P., Feb 2020, In: *IEEE Network*. 34, 1, p. 47-53 7 p., 8977445.

Toward efficient dynamic virtual network embedding strategy for cloud networks

Nguyen, D. L., Mar 2018, In: *International Journal of Distributed Sensor Networks*.

RT-VNE: A real-time strategy for Virtual Network Embedding towards resource efficiency

Nguyen, D. L., 2017, *2017 International Conference on Information Networking (ICOIN)*.

A generalized resource allocation framework in support of multi-layer virtual network embedding based on SDN

Nguyen, D. L., Dec 2015, In: *Computer Networks*.

Activities

IEEE Communications Society (ComSoc) (External organisation)

Lam Duc Nguyen (Chairperson)

1 Jun 2020

The Linux Foundation (External organisation)

Lam Duc Nguyen (Chairperson)

1 Jan 2020

IEEE (External organisation)

Lam Duc Nguyen (Chairperson)

1 Jan 2018

Prizes

Best Student Paper Award

Nguyen, Lam (Recipient), 2 Jun 2020

Best Student Paper Award

Nguyen, Lam Duc (Recipient), Popovski, Petar (Recipient) & Mayorga, Israel Leyva (Recipient), 2021

The Linux Foundation Travel Grant

Nguyen, Lam (Recipient), 1 Mar 2020

Projects**IntelloT: Intelligent, distributed, human-centered and trustworthy IoT environments**

Nguyen, L. D.

01/10/2020 → 30/09/2023

WILLOW

Nguyen, L. D.

2022	Lorem ipsum dolor sit amet
2021	Lorem ipsum dolor sit amet
2020	Lorem ipsum dolor sit amet
2019	Lorem ipsum dolor sit amet
2018	Lorem ipsum dolor sit amet
2017	Lorem ipsum dolor sit amet