

1. Name: LUONG VAN THIEN

2. Education

Degree	Field	Institution	Year
Post-doc	Deep learning for wireless communications	University of Southampton, UK	2021
Ph.D.	Electrical and Electronics Engineering	Queen's University Belfast, UK	2019
B.Sc.	Electronics and Telecommunications	Hanoi University of Science and Technology, Vietnam	2018

3. Academic experience

Institution	Rank, Title	Year/Period	FT/PT
Phenikaa University	Lecturer, Faculty of Computer Science	2021-present	FT
University of Southampton	Research Fellow (Post-doc)	2019-2021	FT
Queen's University Belfast	Ph.D. Candidate	2016-2019	FT
Singapore University of Technology and Design	Research Assistant	2016	FT

4. Non-academic experience

Company	Position	Year/Period	FT/PT
Tenokonda Ltd., London, UK	Data Scientist	2019-2021	PT

5. Certifications or professional registrations

N/A

6. Current membership in professional organizations

N/A

7. Honors and awards

- Golden Globe Award for Outstanding Young Researcher (2022)
- Full EPSRC Ph.D. Scholarship in Queen's University Belfast. (2016-2019)
- Third Prize in Scientific Research Competition at HUST. (2015)
- Third Prize in Vietnam Mathematics Olympiad for High School Students. (2010)

8. Service activities (within and outside of the institution)

- Section chair for Asia Pacific Signal and Information Processing Association Annual Summit and Conference 2022, Chiang Mai, Thailand.
- Reviewer for IEEE Transaction on Wireless Communications, IEEE Transaction on Wireless Communications.

9. Briefly list the most important publications and presentations from the past five years

- T. V. Luong, N. Shlezinger, C. Xu, T. M. Hoang, Y. C. Eldar, and L. Hanzo, "Deep Learning Based Successive Interference Cancellation for the Non-Orthogonal Downlink", IEEE Trans. Veh. Technol., July 2022. (Accepted)
- C. Xu, T. V. Luong, L. Xiang, S. Sugiura, R. G. Maunder, L.-L. Yang, and L. Hanzo, "Turbo Detection Aided Autoencoder for Multi-Carrier Wireless Systems: Integrating Deep Learning into Channel Coded Systems," IEEE Trans. Cogn. Commun. Netw., vol. 8, no. 2, pp. 600-614, June 2022.
- T. M. Hoang, T. Van Chien, T. V. Luong, S. Chatzinotas, B. Ottersten and L. Hanzo, "Detection of Spoofing Attacks in Aeronautical Ad-hoc Networks Using Deep Autoencoders," IEEE Trans. Inf. Forensics Security, vol. 17, pp. 1010-1023, 2022.
- T. T. V. Nguyen, N. C. Luong, F. Shaohan, H. T. Nguyen, K. Zhu, T. V. Luong, and D. Niyato, "Dynamic Network Service Selection in Intelligent Reflecting Surface-Enabled

Wireless Systems: Game Theory Approaches“, IEEE Trans. Wireless Commun., Jan. 2022.
(To appear)

- X. Zhang, T. V. Luong, P. Petropoulos, and L. Hanzo, “Machine-Learning-Aided Optical OFDM for Intensity Modulated Direct Detection“, Journal of Lightwave Technology, vol. 40, no. 8, pp. 2357-2369, April 2022.
- T. M. Hoang, T. V. Luong, D. Liu, J. Zhang, and L. Hanzo, “Deep Learning Aided Physical-Layer Security: The Security versus Reliability Trade-off,” IEEE Trans. Cogn. Commun. Netw., vol. 8, no. 2, pp. 442-453, June 2022.
- L. Xiang, C. Xu, X. Zhang, T. V. Luong, R. G. Maunder, L.-L. Yang, and L. Hanzo, “Unity-Rate Coding Improves the Iterative Detection Convergence of Autoencoder-Aided Communication Systems,” IEEE Trans. Veh. Technol., vol. 71, no. 5, pp. 5037-5047, May 2022.
- T. M. Hoang, D. Liu, T. V. Luong, and L. Hanzo, “RIS-aided AANETs: Security Maximization Relying on Unsupervised Projection-based Neural Networks” IEEE Trans. Veh. Technol, vol. 71, no. 2, pp. 2214-2219, Feb. 2022.
- T. V. Luong, X. Zhang, L. Xiang, T. M. Hoang, C. Xu, P. Petropoulos, and L. Hanzo, “Deep Learning-Aided Optical IM/DD OFDM Approaches the Throughput of RF-OFDM,” IEEE J. Sel. Areas Commun., vol. 40, no. 1, pp. 212-226, Jan. 2022. Special issues on Machine Learning in Communications and Networks.
- T. V. Luong, Y. Ko, M. Matthaiou, N. A. Vien, M.-T. Le and V.-D. Ngo, “Deep learning-aided multicarrier systems,” IEEE Trans. Wireless Commun., vol. 20, no. 3, pp. 2109-2119, 2021.
- L. Xiang, Y. Liu, T. V. Luong, R. G. Maunder, L. -L. Yang and L. Hanzo, “Deep-Learning-Aided Joint Channel Estimation and Data Detection for Spatial Modulation,” IEEE Access, vol. 8, pp. 191910-191919, 2020.
- T. V. Luong, Y. Ko, M. Matthaiou, N. A. Vien and H. Q. Ngo, “Deep energy autoencoder for noncoherent multicarrier MU-SIMO systems“, IEEE Trans. Wireless Commun., vol. 19, no. 6, pp. 3952-3962, June 2020.
- T. V. Luong, Y. Ko, N. A. Vien, D. H. N. Nguyen, and M. Matthaiou, “Deep-Learning-Based Detector for OFDM-IM“, IEEE Wireless Commun. Lett., vol. 8, no. 4, pp. 1159-1162, Aug. 2019.

10. Briefly list the most recent professional development activities

N/A