

**Dr. Nguyen Minh Tuan**

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Website:

**Job Titles**

Lecturer, Faculty of Telecommunications 1, Posts and Telecommunications Institute of Technology, Vietnam

**Education and Qualifications**

- 1995–1998: Engineering Degree in Electronics and Telecommunications, Posts and Telecommunications Institute of Technology, Vietnam.
- 2005–2007: Master in Electronics and Telecommunications, Hanoi University of Science and Technology, Vietnam.
- 2014–2018: Doctoral Degree in School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, Korea.

**Job Experiences**

- 2021–present: Lecturer at Posts and Telecommunications Institute of Technology, Vietnam.

**Teaching Experiences**

- Undergraduate Program in Electronic and Telecommunication Engineering:
  - DAE1302 – Multi-media data processing
  - TEL1342 – Data structures and algorithm
  - TEL1460 - Data Storage and Analysis
  - TEL1343 - Databases

**Research (over the last 5 years)****Research Interests**

- Computer network security.
- Brain-computer interface.
- Biomedical signal processing, biomedical application designs.
- Machine learning, deep learning, optimization
- Intelligent healthcare systems

**Research Projects**

- Customer opinion analysis using intelligent methods. No. 11-HV-2023-VT1. Role:

Project Manager. Year: 2023. University Project

- Diagnosis of Sudden Cardiac Arrest Using Principal Component Analysis in Automated External Defibrillators. Grant No. 01B1-HV-2023-VT1. Role: Project Manager. Year: 2023. Ministry Project

### **Journal/Conference Publication**

- Van-Su Pham, Anh Nguyen, Hoai Bac Dang, Hai-Chau Le, Minh Tuan Nguyen, "Diagnosis of sudden cardiac arrest using principal component analysis in automated external defibrillators", Scientific Report, vol. 13, Article number 8768, 2023.
- Minh Tuan Nguyen, Thu Hang Thi Nguyen, Hai-Chau Le, "A Review of Progress and an Advanced Method for Shock Advice Algorithm in Automated External Defibrillators", Biomedical Engineering Online, vol. 21, Article number 22, 2022.
- Minh Tuan Nguyen, Kiseon Kim, "Genetic Convolutional Neural Network for Intrusion Detection System", Future Generation Computer Systems, vol. 113, pp. 418-427, 2020.
- Binh Van Nguyen, Minh Tuan Nguyen, Hyoyoung Jung, and Kiseon Kim, "Designing Anti-jamming Receivers for NR-DCSK Systems Utilizing ICA, WPD, and VMD Methods," IEEE Transactions on Circuits and Systems II: Express Briefs, vol. 66, no. 9, pp. 1522-1526, 2019
- Ngoc Anh Thi Phung, Anh Thu Pham, Minh Tuan Nguyen, "Biomarker Selection for Pediatric Sepsis Diagnosis Using Deep Learning", Journal of Science and Technology on Information and Communications, Vol. 1, No. 4 (2023), pp. 110-117, 2024.
- Tuan Hoang Vu, Minh Tuan Nguyen, "Machine Learning Based Review Analysis of Electronic Appliances", Journal of Science and Technology on Information and Communications, Vol. 1 No. 3 (2023), pp. 45-50, 2023.
- Linh T. Nguyen, Duc Long Vu, Minh Tuan Nguyen, and Hai-Chau Le, "Recognition of Human Faces and Temperatures Based on Automatically Intelligent Algorithm", Journal of Science and Technology on Information and Communications, Vol. 1 No. 1 (2022), pp. 4-9, 2022.
- Van Thinh Pham, Van-Su Pham, Minh Tuan Nguyen, Hai-Chau Le, "Efficient Electrocardiogram-based Arrhythmia Detection Utilizing R-peaks and Machine Learning," 2023 International Conference on System Science and Engineering (ICSSE), IEEE, pp. 603-607, 2023.
- Van Thinh Pham, Hoang Long Nguyen, Hai-Chau Le, Minh Tuan Nguyen, "Machine Learning-based Intrusion Detection System for DDoS Attack in the Internet of Things," 2023 International Conference on System Science and Engineering (ICSSE), IEEE, pp. 374-379, 2023

- Van-Su Pham, Hang Duy Thi Nguyen, Hai-Chau Le, and Minh Tuan Nguyen, "Sudden Cardiac Arrest Detection Using Deep Learning and Principal Component Analysis," 9th EAI International Conference on INDUSTRIAL NETWORKS & INTELLIGENT SYSTEMS (EAI INISCOM 2023), 2023.

Signature

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