

Minh-Thanh Nguyen

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Education

2021 – now **B.Sc. in Electronics and Telecommunication**,
Hanoi University of Science and Technology
CPA: 3.1/4.0

Experiences

2022 – now **Research Assistant**, *ANSA Lab, SEEE-HUST* Hanoi, Vietnam
2021 – now **Student**, *SEEE-HUST* Hanoi, Vietnam

Projects

2022 – now **Efficient resource allocation for 5G network slicing**, *Python, ILP*
• Built a simple and easy to use simulation framework for comparing performance of different algorithms for various variant of network slice embedding problems.

2023 – now **Machine learning for typhoon formation prediction**, *Python, Bash-script*
• VINIF-funded project between HUST, VNU, and Indiana University Bloomington
• Developed a data processing workflow for weather data from NCEP/NASA
• Set up virtual environment on the Big Red super computer to process large amount of data

2024 – now **Graph ML for combinatorial optimizations**, *Python, Neural Network, MILP*
• Generating dataset for training and validating a graph neural network used for accelerating ILP optimizers from network slice embedding problems' mathematical formulations.

Skills

Programming Python, C/C++, C#, JavaScripts, Lua, Bash, PowerShell, GitHub, GitLab, Docker,
Languages Vietnamese, English
Writings Microsoft Word, Microsoft PowerPoint, L^AT_EX

Awards

Dec. 2023 **Best Poster Award**, *Asian Internet Engineering Conference (AINTEC 2023)*
Accelerating Network Slice Embedding with Reinforcement and Deep Reinforcement Learning

Publications

[1] M.-T. Nguyen, Q.-T. Luu, T.-H. Nguyen, D.-M. Tran, T.-A. Do, K.-H. Do, and V.-H. Nguyen, "Accelerating network slice embedding with reinforcement learning," in *IEEE International Conference on Communications and Electronics (ICCE)*, 2024.

References

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