Bao Nguyen

Website | □ +84 855845559 | @ Gmail | to LinkedIn | O GitHub | Google Scholar | V Hanoi, Vietnam

EDUCATION

Hanoi University of Science and Technology

Hanoi, Vietnam

Bachelor in Computer Science (Talented Programme); CPA: 3.85/4.00

Sep 2019 - Sep 2023

• Thesis: Multi-agent reinforcement learning strategy to maximize the lifetime of WRSNs.

• Advisor: Prof. Huynh Thi Thanh Binh

• Honors: Excellent (1st class honors).

Van Giang High School

Van Giang, Hung Yen

Sep 2016 - Sep 2019

Work Experience

High School Diploma; GPA: 9.0/10.0

VinUniversity

Hanoi, Vietnam

Research Assistant

April 2022 - Present

• Advisor: Prof. Viet Anh Nguyen, Prof. Khoa Doan

Hanoi University of Science and Technology

Hanoi, Vietnam

Research Assistant

Jul 2022 - Apr 2023

• Advisor: Prof. Huynh Thi Thanh Binh

PUBLICATIONS

Bao Nguyen, Binh Nguyen, Viet Anh Nguyen. Bellman Optimal Step-size Straightening of Flow-Matching Models. International Conference on Learning Representations (ICLR), 2024.

Bao Nguyen, Viet Anh Nguyen. Efficient Failure Pattern Identification of Predictive Algorithms. In Conference on Uncertainty in Artificial Intelligence (UAI), 2023.

Nguyen Thanh Long, Tran Thi Huong, **Nguyen Ngoc Bao**, Huynh Thi Thanh Binh, Phi Le Nguyen, Kien Nguyen. Q-learning-based distributed multi-charging algorithm for large-scale WRSNs. In Nonlinear Theory and Its Applications Journal, IEICE, 2023.

Le Van Cuong, **Nguyen Ngoc Bao**, Nguyen Khanh Phuong, Huynh Thi Thanh Binh. Dynamic perturbation for population diversity management in differential evolution. In Proceedings of the Genetic and Evolutionary Computation Conference Companion (GECCO), 2022.

Tran Thi Huong, **Nguyen Ngoc Bao**, Ngo Minh Hai, Huynh Thi Thanh Binh. Effective partial charging scheme for minimizing the energy depletion and charging cost in wireless rechargeable sensor networks. In IEEE Congress on Evolutionary Computation (CEC), 2021.

Le Van Cuong, **Nguyen Ngoc Bao**, Huynh Thi Thanh Binh. A multi-start local search algorithm with l-shade for single objective bound constrained optimization. Report at Competition on Single Objective Bound Constrained Optimization in the Genetic and Evolutionary Computation Conference Companion (GECCO), 2021.

Preprints

Bao Nguyen, Binh Nguyen, Hieu Trung Nguyen, Viet Anh Nguyen. Generative Conditional Distributions by Neural (Entropic) Optimal Transport. Under Review.

Duy Nguyen, **Bao Nguyen** and Viet Anh Nguyen. Cost Adaptive Recourse Recommendation by Adaptive Preference Elicitation. Under Review.

Hue Thi Tran, **Bao Nguyen**, Nguyen Tran Nhat Quoc, Pham Phu Manh, Nguyen Khanh Phuong, Huynh Thi Thanh Binh, Dang Quang Thang. The Vehicle Routing Problem with Drones and Flexibility Demands. Under Review.

Bao Nguyen, Tran Thi Huong, Huynh Thi Thanh Binh, Le Trong Vinh. Asynchronous multi-agent reinforcement learning-based general charging scheme for connected target coverage maximization. Under review.

Tran Thi Huong, Bao Nguyen, Vo Khac Hiep, Le Trong Vinh, Huynh Thi Thanh Binh. Adaptive periodic charging scheme using hybrid fuzzy state-based reinforcement learning in WRSNs. Under review.

Projects

Generative AI Technologies for Gynecological Healthcare in Vietnam | Link

• This project funded by The Bill & Melinda Gates Foundation aims to build a conversational AI chatbot to scale up gynecological healthcare support for women and LGBT+ communities in Vietnam

Bot game MarioBros based on imitation learning and reinforcement learning | Github Stock Price Prediction for Vietnamese stock market | Github

A

Then 19 and of 916 in the Winters Winter Alabeth	0000
Top 13 out of 216 in the Vietnam Winter Alphatho	*
WorldQuant Brain	Sep~2023
The third place in the Face Analysis Challenge	Hanoi, Vietnam
PIXTA Vietnam, Cohost AI và Viblo	Sep 2023
FIXIA Vietnum, Conost AI va Vioto	Sep 2025
Runners-up in NESTQUANT Tournament	Hanoi, Vietnam
NestQuant Incorporation	Jul 2023
resignant Incorporation	3 tit 2020
UAI conference scholarship	Carnegie Mellon University, Pittsburgh, PA, USA
Association for Uncertainty in Artificial Intelligence	Jun 2023
Trooperation for Crocerousing in Trooperation Thousangenee	5 an 2020
Top 1% International Quant Championship 2023	Hanoi, Vietnam
WorldQuant Brain	Apr 2023
,,	
Study encouragement scholarship	Hanoi, Vietnam
Hanoi University of Science and Technology	Jul 2021, Jan 2022, Jun 2022, Jan 2023
	, , , , , ,
Scholarship from Lotte Corporation	Hanoi, Vietnam
Lotte Corporation	Jun~2022
-	
The 4 th prize of Competition Single Objective Bound Constrained Optimization New York, US	
The 4 th prize of Competition Single Objective Bour	nd Constrained Optimization New York, OB
Association for Computing Machinery Special Interest Group (S	

Scholarship from Vietnam Gas Corporation Hanoi, Vietnam Vietnam Gas Corporation Jun 2021

Top 5 students with highest scores in National University Entrance Exam Hanoi, Vietnam Vietnam Ministry of Education Sep 2019

The Silver Medal of Mathematics National Exam Vietnam Vietnam Ministry of Education Jan 2017

The 3^{th} place in the Science and Technology National Contest Vietnam Vietnam Ministry of Education Jan 2017

LICENSES & CERTIFICATIONS

IELTS Academic 7.0 (All skills are above 6.0)

Hanoi, Vietnam

British Council

 $Issued\ Nov\ 2023\ \cdot\ Expires\ Nov\ 2025$

TOEIC 900 IIG Vietnam Hanoi, Vietnam

Issued Sep 2023 · Expires Sep 2025

SKILLS

Programming: Python, C, C++, Java, MATLAB, SQL

Technologies: Pytorch, TensorFlow, Git, Docker, SSH, Spark, Hadoop

Languages: Vietnamese (Native), English (Intermediate)

Professional services

Reviewer at NEURIPS(2023), ICLR(2024)