

Duc-Manh Tran

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Education

8/2019 – 8/2024 | **Hanoi University of Science and Technology (HUST)**
HEDSPI - Information Technology Specialist 2019

- CPA: 3.6/4.00 (equiv. to 90/100);

Research Interests

I am deeply interested in Software Engineering, particularly Artificial Intelligence for Code-related tasks. Particularly, my research goal is to develop trustworthy AI-based tools with the assistance of specify-domain code-related knowledge like static analysis to assist developers in identifying, managing, and fixing bugs and vulnerabilities in software systems. I enjoy creating intelligent software assistance tools for safer and more effective programming environments. Currently, I am working on creating a dataset for Java, which we can run static analyzers on, to further explore the use of static analyzers in code-related tasks.

Projects

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| Ongoing | On the effectiveness of Program Repair with Static Analyzers
Duc-Manh Tran, Hoang-Minh Vuong, Thanh Le-Cong, Thang-Huynh Quyet, Bach Le |
| Completed | Comparison between Static Application Security Testing and Large Language Models on Vulnerability Detection
Zhou Xin, Duc-Manh Tran, Thanh Le-Cong, Bach Le, David Lo |
| Completed | On the effectiveness of Change-level Just-in-Time Defect Prediction
Duc-Manh Tran, Phuc-Thanh Nguyen, Dang-Duong Nguyen, Thanh Le-Cong, Thang-Huynh Quyet, Bach Le
<i>Aim to SOICT 2024</i> |

Experience

4/2022 - now | **Intelligent Software Engineering Lab, Hanoi University of Science and Technology**
Researcher Assistant - Advisor: Prof. Quyet-Thang Huynh & PhD Student. Thanh Le-Cong

References

Available upon requests