

Tran Duc Muoi

A.K.A MUOI TRAN — PH.D. CANDIDATE

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Research Interests

Network security; blockchain security and privacy

Education

School of Computing, National University of Singapore

PH.D. IN COMPUTER SCIENCE

- Advisor: Dr. Min Suk Kang, Assistant Professor

Singapore

August 2016 -

University of Engineering and Technology, Vietnam National University

B.S. IN COMPUTER SCIENCE

- GPA: 3.49/4.0, Honor Programme, Highest Distinction.
- Thesis: "Some Improvements for Regular Expression Solving in Z3-Regex"
- Thesis advisor: Associate Professor Hoang Truong

Hanoi, Vietnam

August 2011 - June 2015

Employment

IBM Blockchain Research, IBM Studio

INTERN RESEARCHER

- Supervisor: Dr. Pralhad Deshpande

Singapore

May 2018 - August 2018

School of Computing, National University of Singapore

RESEARCH ASSISTANT

- Supervisor: Associate Professor Chin Wei Ngan

Singapore

January 2016 - July 2016

School of Computing, National University of Singapore

INTERN RESEARCHER

- Supervisor: Associate Professor Chin Wei Ngan

Singapore

July 2015 - January 2016

Honors & Awards

- 2018 **Awarded**, I&E Practicum@SoC (10,000 SGD grant)
- 2015 **Awarded**, Honda Y-E-S Award Vietnam (Awarded by Honda Foundation to the best 10 students)
- 2015 **Awarded**, Best thesis defense, VNU University of Engineering and Technology
- 2015 **1st Prize**, Student Scientific Research Contest, VNU University of Engineering and Technology
- 2011 **Awarded**, GE Foundation Scholar Leadership (Awarded by GE Foundation to the best 10 students)

Singapore

Vietnam

Vietnam

Vietnam

Vietnam

Publications

On the Feasibility of Rerouting-based DDoS Defenses

MUOI TRAN, MIN SUK KANG, HSU-CHUN HSIAO, WEI-HSIUAN CHIANG, SHU-PO TUNG AND YU-SU WANG

- In Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P)
- Acceptance rate: 12%

San Francisco, CA, USA

May 2019 (to appear)

Obscuro: A Bitcoin Mixer using Trusted Execution Environments

MUOI TRAN, LOI LUU, MIN SUK KANG, IDDO BENTOV AND PRATEEK SAXENA

- In Proceedings of Annual Computer Security Applications Conference (ACSAC)
- Acceptance rate: 20%

San Juan, PR, USA

December 2018

Practical Verifiable In-network Filtering for DDoS defense

DELI GONG(*), MUOI TRAN(*), SHWETA SHINDE, HAO JIN, VYAS SEKAR, PRATEEK SAXENA AND MIN SUK KANG

- (*) Lead authors alphabetically ordered
- arXiv:1901.00955

Preprint

January 2019

Teaching

School of Computing, National University of Singapore

TEACHING ASSISTANT

- CS5231 — System Security (Sem1 2017/18)
- CS5321 — Network Security (Sem2 2016/17)
- CS2106 — Introduction to operating systems (Sem2 2016/17)
- CS2104 — Programming language concepts (Sem1 2016/17)

Singapore

Professional Service

CONFERENCE EXTERNAL REVIEWER

- 18th World Conference on Information Security Applications (WISA '17')
- 18th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI '17)
- Proceeding of Object-oriented Programming, Systems, Languages, and Applications (OOPSLA '16)

References

Dr. Min Suk Kang (advisor)

ASSISTANT PROFESSOR

- School of Computing, National University of Singapore
- Email: kangms@comp.nus.edu.sg

Dr. Prateek Saxena (collaborator)

ASSISTANT PROFESSOR

- School of Computing, National University of Singapore
- Email: prateeks@comp.nus.edu.sg