

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

Singapore

PH.D. IN COMPUTER SCIENCE

08/2016 –

- Advisor: Dr. Min Suk Kang, Assistant Professor

University of Engineering and Technology, Vietnam National University

Hanoi, Vietnam

B.S. IN COMPUTER SCIENCE

08/2011 – 07/2015

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

Employment

IBM Blockchain Research, IBM Studio

Singapore

INTERN RESEARCHER

05/2018 – 08/2018

- Supervisor: Dr. Pralhad Deshpande

School of Computing, National University of Singapore

Singapore

RESEARCH ASSISTANT

01/2016 – 07/2016

- Supervisor: Associate Professor Chin Wei Ngan

School of Computing, National University of Singapore

Singapore

INTERN RESEARCHER

07/2015 – 01/2016

- Supervisor: Associate Professor Chin Wei Ngan

Honors & Awards

2019	Awarded , President’s Graduate Fellowship (2019 – 2020 academic year)	Singapore
2018	Awarded , I&E Practicum@SoC (10,000 SGD grant)	Singapore
2016	Awarded , NUS Research Scholarship (Renewable up to 4 years)	Singapore
2015	Awarded , Honda Y-E-S Award Vietnam (Awarded by Honda Foundation to the best 10 students)	Vietnam
2015	Awarded , Best thesis defense, VNU University of Engineering and Technology	Vietnam
2015	1st Prize , Student Scientific Research Contest, VNU University of Engineering and Technology	Vietnam
2012	Awarded , GE Foundation Scholar Leadership (Awarded by GE Foundation to the best 10 students)	Vietnam

Publications

Practical Verifiable In-network Filtering for DDoS defense

Dallas, TX, USA

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

07/2019

KANG

- (*) Lead authors alphabetically ordered
- In Proceedings of IEEE International Conference on Distributed Computing Systems (**IEEE ICDCS**)
- Acceptance rate: 19.6%

On the Feasibility of Rerouting-based DDoS Defenses

San Francisco, CA, USA

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

05/2019

- In Proceedings of IEEE Symposium on Security and Privacy (**IEEE S&P**)
- Acceptance rate: 11.7% (84 out of 720)

Obscuro: A Bitcoin Mixer using Trusted Execution Environments

San Juan, PR, USA

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

12/2018

- In Proceedings of Annual Computer Security Applications Conference (**ACSAC**)
- Acceptance rate: 20.1% (60 out of 299)

Teaching

School of Computing, National University of Singapore

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)

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