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 — *August 2016 -*

- Advisor: Dr. Min Suk Kang, Assistant Professor

University of Engineering and Technology, Vietnam National University — *Hanoi, Vietnam*

B.S. in Computer Science — *August 2011 - June 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 — *May 2018 - August 2018*

- Supervisor: Dr. Pralhad Deshpande

School of Computing, National University of Singapore — *Singapore*

Research Assistant — *January 2016 - July 2016*

- Supervisor: Associate Professor Chin Wei Ngan

School of Computing, National University of Singapore — *Singapore*

Intern Researcher — *July 2015 - January 2016*

- Supervisor: Associate Professor Chin Wei Ngan

Honors & Awards

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

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 and Yu-Su Wang — *May 2019 (to appear)*

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

Obscuro: A Bitcoin Mixer using Trusted Execution Environments — *San Juan, PR, USA*

Muoi Tran, Loi Luu, Min Suk Kang, Iddo Bentov and Prateek Saxena — *December 2018*

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

Practical Verifiable In-network Filtering for DDoS defense *Preprint*

Deli Gong(*), Muoi Tran(*), Shweta Shinde, Hao Jin, Vyas Sekar, Prateek Saxena and Min Suk Kang *January 2019*

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

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