

# Tri-Hai Nguyen

Ph.D. Student  
Soongsil University  
Seoul, Republic of Korea (ROK)

*E-mail:* [nguyentrihai@soongsil.ac.kr](mailto:nguyentrihai@soongsil.ac.kr)  
[nguyentrihai93@gmail.com](mailto:nguyentrihai93@gmail.com)  
*Website:* <https://nguyentrihai.com>

Tri-Hai Nguyen is a research assistant/Ph.D. student at Advanced Network Design & Analysis (ANDA) Lab under the supervision of Prof. Myungsik Yoo. He received the B.Sc. (Honors) degree in Computer Science from University of Information Technology, HCMC, Vietnam, in 2015. He received his M.Eng degree in Information and Communication Technology (ICT) from Soongsil University, Republic of Korea, in 2017. He has been pursuing a doctoral degree in ICT at Soongsil University since Fall 2017. His current research interests are in the field of Network Function Virtualization, Software-Defined Networking, and Cloud Computing.

## Education

- **Soongsil University** Seoul, ROK  
*Ph.D. in Information and Communication Technology* *Sept. 2017 - Present*
  - Advisor: Prof. Myungsik Yoo
  - Project: Virtual Customer Premises Equipment (vCPE) development in the MEC (Multi-access Edge Computing) Environment
- **Soongsil University** Seoul, ROK  
*M.Eng. Information and Communication Technology* *Sept. 2015 - Aug. 2017*
  - Advisor: Prof. Myungsik Yoo
  - GPA: 3.89/4.50 (91.10/100.0)
  - Thesis: Vulnerability Analysis of Controller in Software-Defined Networking
- **University of Information Technology** HCMC, Vietnam  
*B.Sc. (Hons.) Computer Science* *Sept. 2011 - Aug. 2015*
  - Advisor: Assoc. Prof. Vu Thanh Nguyen
  - GPA: 8.97/10 (First class with distinction, rank: 1/120)
  - Thesis: Multiclass Text Classification with Support Vector Machine (Score: 9.4/10)

## Experience

- Organizing committee member of ACVYS 2018, Sejong University, Seoul, ROK.
- Student Member (Sept. 2015 - present): the Korean Institute of Communications and Information Sciences (KICS).
- **ANDA Lab, Soongsil University** Seoul, ROK  
*Research Assistant* *Sept. 2015 - Present*
  - Advanced Network Design & Analysis Lab.
  - *Website:* <http://anda.ssu.ac.kr/>

- **Buzzmetrics Vietnam**  
*Research Internship*
  - Consumer Insight from Social Listening.
  - Website: <http://buzzmetrics.com/>

HCMC, Vietnam  
 Feb. 2015 - May. 2015

## Publications

- **Journal**

- (2017)(SCIE) **Tri-Hai Nguyen**, Myungsik Yoo, “*A Hybrid Detection Method for Link Service Attacks in SDIoT*”, IJDSN, November 2017, Volume 13, Issue 11 [2016 Impact Factor: 1.239] (DOI: 10.1177/1550147717739157).
- (2017)(SCIE) **Tri-Hai Nguyen**, Myungsik Yoo, “*Analysis of Attacks on Device Manager in Software-Defined Internet of Things*,” IJDSN, August 2017, Volume 13, Issue 8 [2016 Impact Factor: 1.239] (DOI: 10.1177/1550147717728681).
- (2017)(SCIE) Duy-Linh Nguyen, **Tri-Hai Nguyen**, Trong-Hop Do, Myungsik Yoo, “*Probability-based Multi-hop Diffusion Method for Influence Maximization in Social Networks*”, Wireless Personal Communications (WPC), April 2017, Volume 93, Issue 4, pp 903916 [2016 Impact Factor: 0.951] (DOI: 10.1007/s11277-016-3939-8).
- (2016)(Dom.) **Tri-Hai Nguyen**, Myungsik Yoo, “*Diffusion-Based Influence Maximization Method for Social Network*,” The Journal of Korean Institute of Communications and Information Sciences (J-KICS), 16-10 Vol.41 No.10, 2016, p. 1244-1246 (DOI: 10.7840/kics.2016.41.10.1244).

- **Conference**

- (2018)(Dom.) Trinh Nguyen, **Tri-Hai Nguyen**, Myungsik Yoo, “*Developing the VNFs for the vCPE system using OpenWrt*,” JCCI 2018, May 2-4, 2018, Jeonnam, ROK. (Submitted)
- (2018)(Intl.) **Tri-Hai Nguyen**, Trinh Nguyen, Myungsik Yoo, “*Analysis of Deployment Approaches for Virtual Customer Premises Equipment*,” ICOIN 2018, Jan. 10-12, 2018, Chiang Mai, Thailand. (To appear)
- (2017)(Intl.) **Tri-Hai Nguyen**, Myungsik Yoo, “*A Behavior-based Mobile Malware Detection Model in Software-Defined Networking*,” ICISCT 2017, IEEE, Nov. 2-4, 2017, Tashkent, Uzbekistan (DOI: 10.1109/ICISCT.2017.8188590).
- (2017)(Intl.) **Tri-Hai Nguyen**, Myungsik Yoo, “*Analysis of Link Discovery Service Attacks in SDN Controller*,” ICOIN 2017, IEEE, Jan. 11-13, 2017, Da Nang, Vietnam (DOI: 10.1109/ICOIN.2017.7899515).
- (2016)(Intl.) **Tri-Hai Nguyen**, Myungsik Yoo, “*Attacks on Host Tracker in SDN Controller: Investigation and Prevention*,” ICTC 2016, IEEE, Oct. 19-21, 2016, Ramada Plaza Hotel, Jeju Island, ROK (DOI: 10.1109/ICTC.2016.7763545).
- (2015)(Intl.) Vu Thanh Nguyen, **Nguyen Tri Hai**, Nguyen Hoang Nghia, Tuan Dinh Le, “*A Term Weighting Scheme Approach for Vietnamese Text Classification*,” FDSE 2015, Springer International Publishing, Nov. 23-25, 2015, HCMC, Vietnam (DOI: 10.1007/978-3-319-26135-5\_4).

- (2015)(Intl.) **Nguyen Tri Hai**, Nguyen Hoang Nghia, Tuan Dinh Le, Vu Thanh Nguyen, “*A Hybrid Feature Selection Method for Vietnamese Text Classification*,” KSE 2015, IEEE, Oct. 8-10, 2015, HCMC, Vietnam (DOI: 10.1109/KSE.2015.25).

## Others

- **Summit/Workshop/Exchange Programs**

- (2017) OpenStack Summit, Nov. 6-8, 2017 Sydney, New South Wales, Australia.
- (2017) **Tri-Hai Nguyen**, Trinh Nguyen, Jinseok Choi, Myungsik Yoo, “*vCPE Development and Deployment*,” Internet Infra System Technology Research Center (IISTRIC) Workshop, Sept. 21-22, 2017, Mayfield Hotel, Seoul, ROK.
- (2016) **Tri-Hai Nguyen**, Jinseok Choi, Myungsik Yoo, “*Vulnerability of SDN Controller*,” Smart Services Security For You Research Center (S4URC) Workshop, Aug. 22-23, 2016, Konjiam Resort, Gyeonggi-do, ROK.
- (2014) JENESYS 2.0 A youth exchange project between Japan and ASEAN Member States, Sept. 14-23, 2014, Japan.

- **Selected Accomplishments**

- (Scholarship) Special Scholarship for Ph.D. Student, Soongsil University, 2017 - 2019.
- (Scholarship) Graduate Scholarship, Soongsil University, 2015 - 2017.
- (Scholarship) POSCO TJ Park Foundation Scholarship, ROK, 2015.
- (Scholarship) PonyChung Foundation Scholarship, ROK. 2013.
- (Scholarship) “Tiep suc uoc mo” Scholarship, Sponsored by TuoitreOnline and Vietcombank, Vietnam, 2013.
- (Award) Valedictorian of the course 2011 - 2015, Department of Computer Science, University of Information Technology, VNU-HCM, Vietnam.
- (Award) National “January Star” Award, Jan. 2015; National “Student with five-good merits” Award, Dec. 2014.
- (Award) “Ho Chi Minh City Information Communications Technology (HCMC ICT)” Award, HCM City People’s Committee, Vietnam, Nov. 2014.
- (Award) “Student with five-good merits” Award, 4 years in a row, 2011 - 2015.

## References

- **Prof. Myungsik Yoo**

Professor, School of Electronic Engineering, Soongsil University, Seoul, ROK.  
E-mail: myoo@ssu.ac.kr

- **Dr. Trong-Hop Do**

Postdoctoral, School of Electronic Engineering, Soongsil University, Seoul, ROK.  
E-mail: dotronghop@ssu.ac.kr

- **Assoc. Prof. Vu Thanh Nguyen**

Associate Professor, University of Information Technology, VNU-HCM, HCMC, Vietnam.  
E-mail: nguyenvt@uit.edu.vn