Dr. KYOUNGGON KIM

CYBERSECURITY PROFESSOR, SECURITY CONSULTANT, ETHICAL HACKER

ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT OF CYBERSECURITY AND DIGITAL FORENSICS
CENTER OF EXCELLENCE IN CYBER AND ECONOMIC CRIME
NAIF ARAB UNIVERSITY FOR SECURITY SCIENCES (NAUSS)

Email: anesra@gmail.com

Personal Homepage: https://kyounggonkim.com
LinkedIn: https://www.linkedin.com/in/kyounggon-kg-kim-207b076/
Google Scholar: https://scholar.google.com/citations?user=jsl0_EsAAAAJ

Summary of Core Competencies

Dr. Kyounggon Kim has extensive experience in both the cybersecurity industry and academia, spanning 20 years. He is currently an Associate Professor and the Head of the Department of Cybersecurity and Digital Forensics at Naif Arab University for Security Sciences (NAUSS). He is a founding member of the Center of Excellence in Cybercrime and Digital Forensics (CoECDF). He teaches 'Cybersecurity and Cybercrime', 'Network Forensics', and 'Malware Analysis' to higher diploma and master's students at NAUSS.

Before joining NAUSS, he lectured on offensive cyber capabilities to graduate and undergraduate students at Korea University from September 2016 to August 2020. He received the Excellent Teaching Award at Korea University in 2017, 2018, and 2019. He is also a representative security consulting mentor in the Best of the Best (BoB) program sponsored by the Korea government. Dr. Kim has been invited by the United Nations Office on Drugs and Crime (UNODC) as a lecturer for Western and Asia professors to promote the Education for Justice (E4J) initiative and he is a member of the UNODC Education for Justice initiative network.

Dr. Kim serves as a reviewer for journals such as Elsevier's *Computers & Security, IEEE Communications Surveys & Tutorials, IEEE Access*, and the *ETRI journal*. He has conducted penetration testing over 130 clients in various industries such as finance, energy, and consumer goods, while working for Deloitte, PwC, and boutique consulting firms over the past 15 years. He placed 6th in the DEFCON CTF 2007 and won first prize at the 1st Hacking Defense Contest, hosted by the Korea Information Security Agency. Dr. Kim has an extraordinary ability to inspire students' enthusiasm and help them achieve their best.

Education

Ph.D.	School of Cybersecurity, Korea University	Aug. 2020
	Dissertation: Offensive Cybersecurity model for secure smart mobility and smart homes: focused on Z-Wave protocol	
	Advisor: Professor Huy Kang Kim	
M.Sc.	School of Cybersecurity, Korea University	Feb. 2015
B.Sc.	Computer Science, Soongsil University	Feb. 2008

Professional Work Experiences

Associate Professor, **Naif Arab University for Security Sciences**,	Apr 2025 - Present
Assistant Professor,	Sep 2020 - Apr 2025
Program Director for the HD and Master's – Cybercrimes and Digital Forensics Investigation,	Feb 2024 - Present
Head of Network Cybercrime Investigation Department,	Nov 2021 - Present
Founding Member of Center of Excellence in Cybercrimes and Digital Forensics	
Rank #1 and #2 for Program Evaluation during 2020-2023.	
Industry-University Cooperation Professor, **Korea University**,	Sep 2016 - Aug 2020
Excellent Teaching Awards (2017, 2018, and 2019)	
Cybersecurity Consulting Mentor, **Korea Information Technology Research Institute,**	Jul. 2014 - Present
Senior Manager, **Deloitte Korea,**	Dec 2011 - Aug 2017

Cyber Risk Services, Excellent Evaluation (FY2013)

Manager, **PwC Korea,**   Jan 2008 - Dec 2011
     Risk Advisory Service, Excellent Evaluation (FY2011)

Senior Consultant, **SK Infosec,**   Feb 2006 - Dec 2007
     Cybersecurity Research Center,

Consultant, **A3 Security Consulting,**   Aug 2003 - Feb 2006

Awards

1. Award of Distinguished Scientific Publication, Naif Arab University for Security Sciences, May. 2022.
2. Korea Internet & Security Agency President Award, 2021 AI + Security Ideas Contest, Dec. 2021.
3. Silver Award, Annual Conference KIPS 2021 (ACK2021), Nov. 2021.
4. Special Prize, 2021 Cyber Security Conference at HONAM, 2021
5. Nominated as a faculty member to UNODC Cybercrime Expert Group, NAUSS, Mar. 2021.
6. Certification of Appreciation, INTERPOL, Dec. 2020.
7. The Excellent Teaching Award, Korea University, May. 2020.
8. Excellent Student Paper Award, KSC2019, Dec. 2019.
9. Certify that Participated in the E4J Expert Workshop, UNODC, Sep. 2019.
10. The Excellent Teaching Award, Korea University, May. 2019.
11. Excellent Student Paper Award, CISC-W 2018, Dec. 2018.
12. The Excellent Teaching Award, Korea University, May. 2018.
13. Certification of Appreciation Award, Ministry of Education (Taiwan), Sep. 2017.
14. Certification of Appreciation Award, Ministry of Education (Taiwan), Aug. 2016.
15. Finalist to DEFCON 15 CTF, Song of the Freedom team, Aug. 2007.
16. 1st Place of the Hacking Defense Contest, Korea Government, Nov. 2004.

List of Most Important Scientific Talks

1. Specialized education and training programs for Cybercrime Investigator, 1st Korea University-NAUSS Workshop: Combating Crime in the Dark Web, May 2024.
2. How to launder money through virtual assets - A white hacker's perspective on the cyber threat group, International Symposium on Cybercrime Response, Sep. 2022.
3. Network Foreniscs, UNOCT-NAUSS Cyber-Terrorism Workshop, Dec 2021.
4. Cyber-Terrorism in MENA, Nominated Speaker from NAUSS, CEPOL, and CTINFLOW, Jun. 2021.
5. Ransomware Analysis: File Encryption and Decryption Machnism, ITU Academy, Apr. 2021.
6. Cybersecurity and North Korea's Cyber Operations and Strategies, EUCTER, Jun. 2021.
7. How Money Laundering Happens via Virtual Assets, The 4th Global Conference on Criminal Finances and Cryptocurrencies, the Basel Institute on Governance, INTERPOL, and Europol. Nov. 2020.
8. Cybercrime, E4J University Modules Series Lecture, UNODC, Jul. 2019.
9. Artificial Intelligence and Cybersecurity Panelist, Korea Internet Governance Forum (KrIGF), Jul. 2019.

Teaching

1. Network Forensics (Higher Diploma and Master's) Spring. 2024
2. Malware Analysis (Master's). **Course Evaulation #1**.   Fall. 2023
3. Cybersecurity and Cybercrime (Higher Diploma and Master's) Fall. 2023
4. Network Forensics (Higher Diploma and Master's) Spring. 2023
5. Malware Analysis (Master's) Fall. 2022
6. Cybersecurity and Cybercrime (Higher Diploma and Master's) Fall. 2022
7. Network Forensics (Higher Diploma and Master's) Spring. 2022
8. Cybersecurity and Cybercrime (Higher Diploma and Master's) Fall. 2021
9. Network Forensics (Higher Diploma) Spring. 2021
10. Cybersecurity and Cybercrime (Higher Diploma) Fall. 2020
11. Advanced Hacking Practice, Undergraduate Student. Spring. 2020
12. Practical of cyber security, Graduate Student. Spring. 2020
13. Theory and Practice of Hacking Defense, Undergraduate Student. Spring. 2020

14. Basic Hacking Practice, Undergraduate Student. 5.64/6.0. Fall. 2019
15. Subject 66, Undergraduate Student **(The Excellent Teaching Award)** 5.82/6.0. Fall 2019
16. Practical of cyber security, Graduate Student. Fall. 2019.
17. Advanced Hacking Practice, Undergraduate Student. 5.59/6.0. Spring. 2019
18. Practical of cyber security, Graduate Student. Spring. 2019.
19. Basic Hacking Practice, Undergraduate Student. 5.72/6.0. Fall. 2018
20. Subject 66, Undergraduate Student **(The Excellent Teaching Award)** 5.71/6.0. Fall 2018
21. Advanced Hacking Practice, Undergraduate Student. 5.62/6.0. Spring. 2018
22. Practical of cyber security, Graduate Student. Spring. 2018
23. Basic Hacking Practice, Undergraduate Student. 5.51/6.0. Fall. 2017
24. Subject 66, Undergraduate Student **(The Excellent Teaching Award)** 5.81/6.0. Fall 2017
25. Advanced Hacking Practice, Undergraduate Student. 5.44/6.0. Spring. 2017
26. Hacking and Security, Undergraduate Student. 5.62/6.0. Spring. 2017
27. Practical of cyber security, Graduate Student. Spring. 2017
28. Basic Hacking Practice, Undergraduate Student. Fall. 2016

List of Publications (Published and Submitted)

Bibliometrics – Citations: 1061, h-index: 14, i10-index: 17,
FWCI: 2021-2023 (4.14), 2019-2023 (3.67)

ORCID: https://orcid.org/0000-0002-5675-4253
DBLP: https://dblp.org/pid/252/3758.html

[1] Kim, Kyounggon, Seokhee Lee, Sundaresan Ramachandran, and Ibrahim Alzahrani. "Cryptocurrency-driven ransomware syndicates operating on the darknet: A focused examination of the Arab world." *Egyptian Informatics Journal* 30 (2025): 100665.

[2] Kim, ChaeYoung, and Kyounggon Kim. "Poster: FORESIGHT, A Unified Framework for Threat Modeling and Risk Assessment in Robotics and IoT."

[3] Lee, Seongmin, Yonghun No, Juwon Cho, Guckhyeon Jin, Jeongho Kim, Jeongmin Lee, Sanghyun Jeon, Faisal Abdulaziz Alfouzan, and Kyounggon Kim. "Securing Maritime Autonomous Surface Ships: Cyber Threat Scenarios and Testbed Validation." *IEEE Access* (2025).

[4] Hong, Jiwon, Hyeongmin Kim, Suhyeon Oh, Yerin Im, Hyeonseong Jeong, Hyunmin Kim, Eunkueng Jang, and Kyounggon Kim. "Combating phishing and script-based attacks: a novel machine learning framework for improved client-side security." *The Journal of Supercomputing* 81, no. 1 (2025): 1-24.

[5] Seokhee Lee, Aisha, Kyounggon Kim, "Leveraging Social Networks for Cyber Threat Intelligence: Analyzing Attack Trends and TTPs in the Arab World." *IEEE Access* (2024), Major Revision.

[6] Sarah Alhwuishal, Sundaresan Ramachandran, Kyounggon Kim. "API Call Analysis for Effective Ransomware Family Classification on Windows Systems." *Security and Communication Networks* (2024), Major Revision and Resubmitted.

[7] Seongmin Lee, Younhun No, Juwon Cho, Guckhyeon Jin, Jeongho Kim, Jeongmin Lee, Sanghyun Jeon, Faisal Abdulaziz Alfouzan, Kyounggon Kim. "Navigating Cyber Seas: Identifying Threat Scenarios and Attack Surfaces in Maritime Domains." *IEEE Access* (2024), Major Revision and Resubmitted.

[8] Jiwon Hong, Hyeongmin Kim, Suhyeon Oh, Yerin Im, Hyeonseong Jeong, Hyunmin Kim, Eunkueng Jang, KyoungGon Kim. "Combating Phishing and Script-based Attacks: A Novel Machine Learning Framework for Improved Client-side Security." *The Journal of Supercomputing* (2024), Accepted.

[9] Alzahrani, Ibrahim Yahya, Seokhee Lee, and Kyounggon Kim. "Enhancing Cyber-Threat Intelligence in the Arab World: Leveraging IoC and MISP Integration." *Electronics* 13, no. 13 (2024): 2526

[10] Hyunjung Lee, Suryeon Lee, Kyounggon Kim, and Huykang Kim. "HSViz-II: Octet Layered Hierarchy Simplified Visualizations for Distributed Firewall Policy Analysis." *IEEE Access* (2023).

[11] Jiwon Hong, Hyeongmin Kim, Suhyeon Oh, Yerin Im, Hyeonseong Jeong, Hyunmin Kim, and Kyounggon Kim. "Client-Based Web Attacks Detection Using Artificial Intelligence." (2023). Preprints

[12] Jeon, Yu-Min, Won-Mu Heo, Jong-Min Kim, and Kyounggon Kim. "Multimedia Distribution Process Tracking for Android and iOS." *arXiv preprint arXiv:2304.03848* (2023).

[13] Kyounggon Kim, Istabraq Mohammed Alshenaifi, Sundaresan Ramachandran, Jisu Kim, Tanveer Zia, and Abdulrazaq Almorjan. "Cybersecurity and cyber forensics for smart cities: a comprehensive literature review and survey." *Sensors* 23, no. 7 (2023): 3681.

[14] Almorjan, Abdulrazaq, Kyounggon Kim, and Norah Alilwit. *NAUSS Ransomware Trends Report in Arab Countries 2020-2022*. *Naif Arab University for Security Sciences.*

[15] Ramachandran, Sundaresan, Jeet Rami, Abhinav Shah, Kyounggon Kim, and Digvijaysinh Mahendrasinh Rathod. "Defence against crypto-ransomware families using dynamic binary instrumentation and DLL injection." *International Journal of Electronic Security and Digital Forensics* 15, no. 4 (2023): 424-442.

[16] Kim, Kyoung Ho, Kyounggon Kim, and Huy Kang Kim. "STRIDE-based threat modeling and DREAD evaluation for the distributed control system in the oil refinery." *ETRI Journal* 44, no. 6 (2022): 991-1003

[17] Alfouzan, Faisal Abdulaziz, Kyounggon Kim, and Nouf M. Alzahrani. "An efficient framework for securing the smart city communication networks." *Sensors* 22, no. 8 (2022): 3053.

[18] Son, Jihun, Yeong Woong Kim, Dong Bin Oh, and Kyounggon Kim. "Forensic analysis of instant messengers: Decrypt Signal, Wickr, and Threema." *Forensic Science International: Digital Investigation* 40 (2022): 301347.

[19] Kim, Hee Yeon, Ji Hoon Kim, Ho Kyun Oh, Beom Jin Lee, Si Woo Mun, Jeong Hoon Shin, and Kyounggon Kim. "DAPP: automatic detection and analysis of prototype pollution vulnerability in Node. js modules." *International Journal of Information Security* 21, no. 1 (2022): 1-23.

[20] Adam, Ibrahim, Abdulrahman Al Qunaibit, Nayef Shabeb, Faisal Al Fehaid, and Kyounggon Kim. "Web Application based image geolocation analysis to detect human trafficking." (2021).

[21] Kim, Kyounggon, Faisal Abdulaziz Alfouzan, and Huykang Kim. "Cyber-attack scoring model based on the offensive cybersecurity framework." *Applied Sciences* 11, no. 16 (2021): 7738.

[22] Lee, Hyunjung, Suryeon Lee, Kyounggon Kim, and Huy Kang Kim. "HSViz: Hierarchy simplified visualizations for firewall policy analysis." *IEEE Access* 9 (2021): 71737-71753.

[23] Lee, GyungMin, ShinWoo Shim, ByoungMo Cho, TaeKyu Kim, and Kyounggon Kim. "Fileless cyberattacks: Analysis and classification." *ETRI Journal* 43, no. 2 (2021): 332-343.

[24] Kim, Kyounggon, Jun Seok Kim, Seonghoon Jeong, Jo-Hee Park, and Huy Kang Kim. "Cybersecurity for autonomous vehicles: Review of attacks and defense." *Computers & security* 103 (2021): 102150.

[25] Kyounggon Kim. "Security and Privacy Liability Policy in the Arab World." أوراق السياسات الأمنية (2021): 1-11.

[26] Kim, Hyunmin, InSeok Kim, and Kyounggon Kim. "AIBFT: artificial intelligence browser forensic toolkit." *Forensic Science International: Digital Investigation* 36 (2021): 301091.

[27] Lee, Chang Seon, Huy Kang Kim, Hey Rin Won, and Kyounggon Kim. "A method for preventing online games hacking using memory monitoring." *Etri Journal* 43, no. 1 (2021): 141-151.

[28] Cho, So-Hyeon, Dong-Seok Kang, Min-Song Kang, Hyeon-Soo Kim, Jin-Woong Bae, Chung-Il Lee, Han-Byeol Ji, Yo-Han Won, Hyeon-Kyoung Hong, and Kyounggon Kim. "A study on threat modeling in smart greenhouses." (2020).

[29] Kyounggon Kim, Kiyoon Cho, Jihwan Lim, Young Ho Jung, Min Seok Sung, Seong Beom Kim, and Huy Kang Kim. "What's your protocol: Vulnerabilities and security threats related to Z-Wave protocol." *Pervasive and Mobile Computing* 66 (2020): 101211.

[30] Oh, In-Kyung, Jae-Wan Seo, Min-Kyu Lee, Tae-Hoon Lee, Yu-Na Han, Ui-Seong Park, Han-Byeol Ji, Jong-Ho Lee, Kyu-Hyung Cho, and Kyounggon Kim. "Derivation of Security Requirements of Smart TV Based on STRIDE Threat Modeling." *Journal of The Korea Institute of Information Security & Cryptology* 30, no. 2 (2020): 213-230.

[31] Lee, Suhyeon, Huy Kang Kim, and Kyounggon Kim. "Ransomware protection using the moving target defense perspective." *Computers & Electrical Engineering* 78 (2019): 288-299.

[32] Ji-Young, Kong, Lim Jong In, and Kim Kyoung Gon. "The all-purpose sword: North Korea's cyber operations and strategies." In *2019 11th International Conference on Cyber Conflict (CyCon)*, vol. 900, pp. 1-20. IEEE, 2019.

[33] You, Jaewook, Mijeong Han, Kyuheon Kim, Junyoung Jang, Hoyong Jin, Hanbyeol Ji, Jeonghoon Shin, and Kyounggon Kim. "A Study on Method for Bypassing Verification Function by Manipulating Return Value of Android Payment Application's Security Solution." *Journal of the Korea Institute of Information Security & Cryptology* 28, no. 4 (2018): 827-838.

[34] Kyounggon Kim, Jonghyung Lee, Hun Young Kwan. "Study on the relationship between the bug bounty system and the domestic information protection law." *In 2017 Conference on Information Security and Cryptography Summer.* (2017)

[35] Jeong, Se-Yeon, I-Ju Choi, Yeong-Jin Kim, Yong-Min Shin, Jeong-Hun Han, Goo-Hong Jung, and Kyoung-Gon Kim. "A study on ros vulnerabilities and countermeasure." In *Proceedings of the Companion of the 2017 ACM/IEEE International Conference on Human-Robot Interaction*, (2017): pp. 147-148.

[36] Kyounggon Kim, Soo Hoon Kim. "Using threat modeling for risk analysis of smarthome." In *Proc. Symp. Korean Inst. Commun. Inf. Sci*, (2015): pp. 378-379.

[37] Kyounggon Kim. "Study on Security Diagnosis Method for Android Mobile App." *master's Thesis, Korea University* (2015).

[38] Kyounggon Kim, Huy Kang Kim, Eun Jin Kim. "A Study of the Security assessment methodology for Android Mobile App." *Journal of the Korean Society of Knowledge and Information Technology.* v.10, no.1, (2015): pp.1 – 16.

[39] Kyounggon Kim. "Cybersecurity Career Roadmap". *The Magazine of the IEIE*, (2014).

[40] Kyounggon Kim, Hwi-gang Kim. "A Study on Methods for Identifying and Defending Evil Twin Attacks (Impersonated Profiles) in Online Social Network Sites," *Korea Management Information Society 2011 Fall Conference*, 508-510. (2011).

[41] SoYeon Hwang, Kyung Kon Kim, Sung Koo Ryeo, Sang Jin Lee. "Internet Banking Service Vulnerability Analysis and Security Solution." *Journal of Information and Security*, vol. 7, no. 2. 119-128. (2007).

RESEARCH & DEVELOPMENT EXPERIENCE

A. RESEARCH PROJECT

1. Practical Cybercrime Threat Intelligence Implementation based on real-data collection and analysis, Role: PI, Funding institution: Naif Arab University for Security Sciences, Project period: May 2023-May 2024.
2. Research on Ransomware crime syndicates that gain proceeds of crime based on darknet and cryptocurrency in Arab World, Role: PI, Funding institution: Naif Arab University for Security Sciences, Project period: May 2023-May 2024.
3. Smart Ship Cybersecurity Research Project, Role: Project Mentor, Funding institution: Korea Information Technology Research Institute (KITRI), Best of the Best Program 12th, September 2023-December 2023.
4. Cybersecurity and Cyber Forensics in Smart Cities, Role: PI, Funding institution: Naif Arab University for Security Sciences, March 2022-December 2022.
5. Development of information security management system and level of protection and verification tools based on the legal system in the medical field for the utilization of multi-institutional CDM, Role: Project part leader, Funding institution: Ministry of Health and Welfare, Research Period: September 2019-December 2021.

6. A Study of Classification and Similarity for Fileless cyberattack, Role: PI, Funding institution: LIG Nex1, Project Period: April 2019-December 2019.
7. Security Vulnerability Response Law Improvement Study Group, Role: Co-PI, Funding institution: Korea Internet & Security Agency (KISA), September 2019-November 2019.
8. Automatic Analysis for NodeJS Modules, Role: Project Mentor, Funding institution: Korea Information Technology Research Institute (KITRI) BoB (Best of Best Program) 8th, Project Period: September 2019-November 2019.
9. Z-Wave security vulnerability research, Role: Project Mentor, Funding institution: Korea Information Technology Research Institute (KITRI) BoB (Best of Best Program) 8th, Project Period: September 2019-November 2019

B. CYBERSECURITY TRAINING PROGRAM DEVELOPEMNT

1. Cyber Forensics and Incident Response Specialization Course Development. Center of Excellence in Cybercrime and Digital Forensics, NAUSS, Dec. 2020–Feb. 2021.
2. Higher Diploma and master's Program in Cybercrime and Digital Forensic Investigators. Center of Excellence in Cybercrime and Digital Forensics, NAUSS, Dec. 2020–Feb. 2021
3. Best of the Best Program. Developed courses and managing Cybersecurity Consulting Track, July. 2014–Present

PROFESSONL SERVICES ACTIVITIES

A. JOURNAL REVIEW and EDITOR ACTIVITIES

1. Elsevier – Computers and Security, 2023 (IF 4.438, Q1 Rank)
2. International Journal of Public Administration, 2023 (Q2 Rank)
3. IEEE Transactions on Reliability, 2022 (IF 4.424, Q1 Rank)
4. Nature – Scientific Reports, 2022 (IF 4.347, Q1 Rank)
5. IEEE Vehicular Technology Magazine, 2022 (IF 10.384, Q1 Rank)
6. ACM Computing Survey, 2022 (IF 10.282, Q1 Rank)
7. Elsevier – Computers and Security, 2022 (IF 4.438, Q1 Rank)
8. Taylor and Francis – Cybernetics and Systems, 2022 (IF 1.879)
9. Wiley - Concurrency and Computation: Practice and Experience, 2022 (IF 1.536)
10. Associate Editors, Journal of Information Security and Cybercrime Research (JISCR)
11. ACM Computing Survey, 2021 (IF 10.282, Q1 Rank)
12. Elsevier – Accident Analysis & Prevention, 2021 (IF 4.993, Q1 Rank)
13. Elsevier – Computers and Security, 2021 (IF 4.438, Q1 Rank)
14. Journal of Information Security and Cybercrime Research, 2021
15. KSII Transactions on Internet and Information Systems, 2021
16. IEEE Access, 2021 (IF 3.367, Q1 Rank)
17. Journal of Digital Forensics, 2020
18. Journal of Information Security and Cybercrime Research, 2020
19. IEEE Access, 2020 (IF 3.367, Q1 Rank)
20. ETRI Journal, 2020 (IF 1.347, Q2 Rank)
21. IEEE Communications Surveys and Tutorials, 2019 (IF 25.249, Q1 Rank)
22. ETRI Journal, 2019 (IF 1.347, Q2 Rank)
23. ACM Computing Survey, 2019 (IF 10.282, Q1 Rank)
24. KSII Transactions on Internet and Information Systems, 2019

B. CONFERENCE / CHALLENGE COMMITTEE ACTIVITIES

1. EAI ICDF2C 2024, Technical Program Committee

2. DFRWS APAC 2023, TPC
3. The 14th IEEE International Conference on Internet of Things (iThings-2021), TPC
4. International Conference on Social Computing and Networking (SocialCom-2021), TPC
5. The 13th IEEE International Conference on Internet of Things (iThings-2020), TPC
6. International Conference on Social Computing and Networking (SocialCom-2020), TPC
7. The 19th IEEE International Conference on Scalable Computing and Communications, TPC
8. 3rd Information Security R&D Data Challenge, 2019. South Korea, Steering Committee Member
9. The 11th IEEE International Conference on Internet of Things (iThings-2018), TPC
10. The 16th IEEE International Conference on Smart City (SmartCity-2018), TPC
11. 2nd Information Security R&D Data Challenge, 2018. Steering Committee Member
12. 1st Information Security R&D Data Challenge, 2017. South Korea, SCM
13. The 9th IEEE International Conference on Internet of Things (iThings-2016), PC

C. SUPERVISION OF HIGHER/MASTER STUDENTS

1. [Master] Moaaz Abdullatif Khujah, Saudi National Platform for Monitoring and Tracing Financial Fraud Activities (Unified Governmental Anti-Financial Frauds Platform), Received Student Excellence Award, Academic Year: 2022/2023
2. [Master] Lujain A. Alharbi and Istabraq M. Alshenaifi, Security and Forensics Analysis of IP-Cameras used in Saudi Arabia, Academic Year: 2022/2023
3. [Master] Saad Naif Albqoami, Web Application of Dashcam Evidence for Safety of Roads, Academic Year: 2022/2023
4. [Master] Walaa Hakem Alenazi, Implementation a Specialized Environment for Analysis of APTs Group Attack, Academic Year: 2022/2023

D. PROFESSIONAL SOCIETY ACTIVITIES

1. UNOCT/UNCCT Expert Roundtable on CT and UAS Digital Forensics, 23 Mar 2022

2. UNOCT/UNCCT Expert Group Meeting on AI for Social Network Analysis, 09 Mar 2022.

3. ISC2 Exam Translation Workshop, Distinguished Subject Matter Expert, 2019

E. CYBERSECURITY CONSULTING PROJECTS

1.	Financial Supervisory Service. Pen-Testing.	*Aug. 2003*
2.	Electronics and Telecommunications Research Institute. Pen-Testing.	*Aug.-Sep. 2003*
3.	Hanwha Investment and Securities. Pen-Testing	*Sep.-Oct. 2003*
4.	Korea Internet & Security Agency. Pen-Testing	*Oct. 2003*
5.	Korea Telecom. Pen-Testing.	*Oct.-Nov. 2003*
6.	KorAm Bank. Pen-Testing.	*Dec. 2003*
7.	Kookmin Bank. Pen-Testing	*Dec. 2003-Jan. 2004*
8.	Ministry of the Interior. Pen-Testing.	*Feb. 2004*
9.	Ministry of Information and Communication. Pen-Testing.	*Feb. 2004*
10.	Korea Network Information Center. Pen-Testing.	*Mar.-Aug. 2004*

11.	National Pension Service. Pen-Testing.	*Mar. 2004*
12.	Korea Information Certificate Authority. Pen-Testing.	*Apr. 2004*
13.	Hanaro Telecom. Pen-Testing	*Apr. 2004*
14.	Korea Infrastructure Safety Corporation. Pen-Testing.	*May. 2004*
15.	SK Teletech. Pen-Testing.	*May. 2004*
16.	NC Soft. Security Solution BMT. Pen-Testing.	*Jun. 2004*
17.	SK Telecom. Information Technology Institution. Pen-Test.	*Jun. 2004–Aug. 2004*
18.	Hanaro Telecom. Pen-Testing.	*Jul. 2004*
19.	Com2Us. Pen-Testing.	*Jul. 2004*
20.	Epaygen. Pen-Testing.	*Jul. 2004*
21.	Goodmorning Shinhan Investment and Securities. Pen-Test.	*Aug. 2004*
22.	SK Telecom. Information Technology Institution. Pen-Test.	*Aug. 2004*
23.	Seoul Metropolitan Government. Pen-Testing.	*Sep. 2004*
24.	Prudential Life Insurance Company of Korea. Pen-Testing.	*Sep. 2004*
25.	Industrial Bank of Korea. Pen-Testing.	*Oct. 2004*
26.	Kookmin Bank. Wireless Pen-Testing.	*Oct. 2004*
27.	Korea Network Information Center. Pen-Testing.	*Nov. 2004*
28.	Ministry of Information and Communication. Pen-Testing.	*Dec. 2004*
29.	Citibank Korea. Pen-Testing.	*Dec. 2004*
30.	National Assembly Secretariat. Pen-Testing.	*Dec. 2004*
31.	SK Communications. Pen-Testing.	*Jan. 2005*
32.	Dongseo Research. Forensic and Pen-Testing.	*Jan. 2005*
33.	Korean Broadcasting System. Pen-Testing.	*Jan. 2005*
34.	Dongbu Fire and Securities. Pen-Testing.	*Feb.-Mar. 2005*
35.	Hanaro Telecom. Security lecture **(0-day Exploits)**	*Mar. 2005*
36.	NC Soft. Pen-Testing.	*Apr. 2005*
37.	NIDA. Pen-Testing.	*Apr. 2005*
38.	Citibank Korea. Security consulting. Security audit.	*Apr.-Oct. 2005*
39.	Goodmorning Shinhan Investment and Securities. Pen-Test.	*May. 2005*
40.	Shinsegae I & C. Pen-Testing.	*May. 2005*
41.	LG Electronics. Pen-Testing. * Finding several zero-day exploits	*Jun.-Aug. 2005*
42.	NC Soft. Pen-Testing.	*Sep. 2005*
43.	Daewoo Investment and Securities. Pen-Testing.	*Sep.-Oct. 2005*
44.	NC Soft. Pen-Testing.	*Oct. 2005*
45.	Saemaul Geumgo. Pen-Testing.	*Nov. 2005*
46.	ESTsoft. Pen-Testing.	*Nov. 2005*
47.	NC Soft. Pen-Testing.	*Dec. 2005*
48.	Cogame. Security Consulting.	*Jan. 2006*
49.	Shinsegae I & C. Pen-Testing.	*Jan. 2006*

50.	Lotte Data Communication. Pen-Testing.	*Jan. 2006*
51.	Prudential Investment and Securities. Pen-Testing.	*Feb. 2006*
52.	Korea Post Information Center. Pen-Testing.	*Mar. 2006*
53.	Suhyup Bank. Pen-Testing.	*Apr.-May. 2006*
54.	Nonghyup Bank. Pen-Testing.	*Jun. 2006*
55.	Bank of Korea. Phishing e-mail response training.	*Jun. 2006*
56.	Korea Education and Research Information Service. Pen-Test	*Jul. 2006*
57.	Supreme Prosecutor's Office. Pen-Testing.	*Aug. 2006*
58.	LOTTE Engineering & Machinery MFG. Pen-Testing.	*Aug. 2006*
59.	Nonghyup Bank. Pen-Testing.	*Aug. 2006*
60.	Daishin Securities. Pen-Testing.	*Sep. 2006*
61.	Daum. Pen-Testing.	*Sep. 2006*
62.	SK Telecom. Pen-Testing.	*Oct. 2006*
63.	Nonghyup Bank. Pen-Testing.	*Nov. 2006*
64.	Ministry of Information and Communication. Pen-Testing.	*Dec. 2006*
65.	Korea Development Bank. Pen-Testing.	*Feb. 2007*
66.	Dongbu Insurance. IT management assessment. Pen-Testing.	*Mar. 2007*
67.	SK Networks. Pen-Testing.	*Mar.-Apr. 2007*
68.	Korea Education and Research Information Servic. Pen-Test.	*Apr.-Jul. 2007*
69.	Defense Acquisition Program Administration. Pen-Testing.	*May. 2007*
70.	Supreme Court of South Korea. Secure SDLC assessment.	*Jun. 2007*
71.	KB Financial Group. Application Security Audit. Pen-Test. * Finding several zero-day exploits	*Jul.-Sep. 2007*
72.	Company N. Forensic Technology Service (with PwC NY and HK Office)	*Feb. 2008*
73.	Financial Supervisory Service. Internal Control Design Proj.	*Mar. 2008*
74.	British American Tobacco. Pen-Testing. (work with PwC UK, HK, and SG Office)	*Apr. 2008*
75.	National Tax Service of South Korea. Forensic training.	*May.-Aug. 2008*
76.	MetLife IT audit. (work with PwC NY Office)	*Jul. 2008*
77.	MEMC Electronic Materials. SoX Testing. (work with PwC SF Office)	*Aug. 2008*
78.	Cheil Worldwide. Early warning system implementation.	*Sep.-Dec. 2008*
79.	Shinhan Bank. IFRS.	*Jan.-Jun. 2008*
80.	Indonesia Government. Batam FTZ. PMO (Stayed 3 months in Indonesia)	*Jun.-Sep. 2008*
81.	Company P. Company N. Forensic Technology Service. (work with PwC NY Office)	*Oct. 2008*
82.	Lehman Brothers. Liquidation support. (data transfer)	*Nov. 2008*
83.	Korea Student Aid Foundation. BPR/ISP.	*Dec. 2008-Feb. 2010*
84.	Ministry Of Foreign Affairs. BPR/ISP. Security Architecture Part Leader.	*Apr.-Sep. 2010*
85.	International Organization I. Forensic Technology Service. (work with PwC NY Office)	*Oct. 2010*

86.	Ministry of Government Administration and Home Affairs. BPR/ISP.	*Oct. 2010- Mar. 2011*
87.	Federal Mogul. Internal Audit.	*Mar. 2011*
88.	Company L. Forensic Technology Service.	*Apr. 2011*
89.	Rhodia. Greenhouse Gas Emissions Verification.	*May. 2011*
90.	Dong Suh Foods Corporation. Greenhouse Gas Emissions Verification.	*May. 2011*
91.	Korea Housing & Urban Guarantee Corporation. IT audit.	*Jun. 2011*
92.	LG Electronics. IT audit.	*Jul. 2011*
93.	Company P. Forensic Technology Service. (with PwC NY)	*Jul.-Aug. 2011*
94.	LG Electronics. IT and Security audit.	*Aug.-Sep. 2011*
95.	eBay Korea. IT audit.	*Oct. 2011*
96.	GS Retail. IT audit.	*Nov. 2011*
97.	Industrial Bank of Korea. IT audit	*Nov. 2011*
98.	KB Card. ITGC audit.	*Dec. 2011*
99.	Novelis Korea. ITGC audit. In-charge.	*Dec. 2011*
100.	Woori Financial Group. Security governance and security framework. Part Leader.	*Dec. 2011-Mar. 2012*
101.	eBay Korea. 3rd party privacy management assessment Project Manager.	*Mar.-May. 2012*
102.	LG Display. Security strategy consulting. Part Leader.	*May.-Aug. 2012*
103.	LG Display. Security master-plan implementation project. Subject Leader (business work in China)	*Oct. 2012-Jan. 2013*
104.	Daum. PIMS Project Manager.	*Mar.-Apr. 2013*
105.	SK Planet. Mobile app security assessment Project Manager.	*Jun.-Aug. 2013*
106.	Amway Korea. ISMS.PIMS Technical Part Leader.	*Aug.-Sep. 2013*
107.	SK Planet, Sarbanes-Oxley (SOX) Testing.	*Dec. 2013*
108.	Company K. White-Hacker Pen-Testing Project Manager.	*Jan.-Mar. 2013*
109.	Hanwha Investment & Securities. PIMS. Technical PL.	*Apr.-May. 2013*
110.	NH Investment & Securities (Woori Investment & Securities). Information leakage assessment. PM.	*Jun.-Aug. 2014*
111.	Samsung Display. Pen-Testing Project Manager.	*Sep. 2014*
112.	eBay Korea. 3rd party privacy management assessment Project Manager.	*Oct.-Nov. 2014*
113.	Amway Korea. 3rd party privacy management assessment Project Manager.	*Dec. 2014*
114.	LS Group. Pen-Testing Project Manager.	*Jan.-Feb. 2015*
115.	Korea Hydro & Nuclear Power (KHNP). Information leakage assessment. Technical Part Leader.	*Apr.-May. 2015*
116.	SK Group SUPEX Council. Security Master-Plan. Technical Part Leader.	*Apr.-Jun. 2015*
117.	Amway Korea. ISMS. PIMS. Engagement Manger. (Successful acquisition of certification)	*Jun.-Nov. 2015*
118.	t-broad. ISMS Project Manager (Successful acquisition of certification)	*Jul.-Aug. 2015*
119.	KB Financial Group. Engagement Manger.	*Jun.-Nov. 2015*

120.	Shinsegae Group. Subsidiary security assessment Project Manager	*Dec. 2015-Feb. 2016*
121.	Starbucks Coffee Korea. ISMS Project Manager (Successful acquisition of certification)	*Mar.-May. 2016*
122.	Eastar Jet. Pen-Testing	*Jun. 2016*
123.	eBay Korea. 3rd party privacy management Project Manager	*Jun.-Jul. 2016*
124.	Company M. Pen-Testing	*Nov. 2016*
125.	Company I. Pen-Testing	*Dec. 2016*
126.	Company L. Mobile App Pen-Testing	*Sep.-Dec. 2017*
127.	Cryptocurrency Trading Company C Pen-Testing.	*May.-Jun. 2018*
128.	Company D. Pen-Testing Re-Testing	*Jul.-Sep. 2018*
129.	Company K. Mobile Vulnerability Analysis	*Sep.-Dec. 2018*
130.	Company D. Pen-Testing Advisory	*Nov.-Dec. 2018*
131.	Company A. Pen-Testing Project Manager	*Feb.-Mar. 2019*
132.	Company A. Pen-Testing Project Manager	*May.-Jun. 2019*
133.	Company A. Pen-Testing Project Manager	*Mar.-Apr. 2022*
134.	Company A. Pen-Testing Project Manager	*Mar.-Apr. 2023*

F. CYBERSECURITY PROFESSIONAL MEMBERSHIP and CERTIFICATIONS

1.	Certified Information Systems Security Professional (CISSP)	*Dec. 2005-Present*
2.	Certified Information Systems Auditor (CISA)	*Jun. 2011-Present*