

Dongkwan Kim

Postdoctoral Fellow, SSLab
School of Cybersecurity and Privacy
Georgia Institute of Technology

Email: 0xdkay@gmail.com
Homepage: <https://0xdkay.me>

SUMMARY

I am a security engineer and researcher specializing in uncovering novel, cross-domain security threats across AI, IoT, cellular networks, and cyber-physical systems. I have a proven track record of identifying and developing practical security solutions at scale, from AI-based automated vulnerability discovery to securing enterprise-level AI infrastructures. As a DARPA AIxCC finalist, I demonstrated expertise in building LLM-powered exploit generation agents and advancing autonomous security analysis. At Samsung SDS, I drove Red Team operations to proactively mitigate threats against global products and services. Recognized through 5x DEFCON finals, 9 top-tier publications (USENIX Security, CCS, NDSS, TSE, TMC), 7 patents, and 17+ industry/government projects. Passionate about bridging cutting-edge research with real-world impact to secure large-scale systems and services.

WORK EXPERIENCE

Georgia Tech, Postdoctoral Fellow, Atlanta, GA Feb. 2025 – Present

Led design and implementation of LLM-powered exploit generation and fuzzing agents, significantly improving team productivity and analysis throughput through robust automation and tooling.

Manager: Prof. Taesoo Kim

Samsung Security Center, Samsung SDS, Senior Engineer, South Korea Aug. 2022 – Dec. 2024

Drove Red Team efforts to proactively identify and mitigate security threats across all Samsung affiliates' products and services, including AI-integrated systems, IoT/embedded devices, Android applications, and kernel-level mitigations.

KAIST, Postdoctoral Researcher, South Korea Mar. 2022 – Jul. 2022

Conducted advanced research on smartphone baseband authentication bypass, acoustic and EMI signal injection attacks against drone sensors, and recovery techniques for spoofed signals.

Manager: Prof. Yongdae Kim

Pinion Industries, Research Intern, South Korea Dec. 2013 – Feb. 2014

An automotive software and security startup. I analyzed and exploited in-vehicle components (network systems, AVN, telematics, smart keys, ECUs), including achieving remote code execution on AVN systems and investigating smart key cloning for potential theft scenarios.

KAIST CERT, Student Senior, South Korea Sep. 2010 – Aug. 2012

Investigated and analyzed security incidents, including identifying and attributing an attack that led to the apprehension of the perpetrator by law enforcement.

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST), South Korea

Ph.D. in School of Electrical Engineering Mar. 2016 – Feb. 2022

Thesis Title: Improving Large-Scale Vulnerability Analysis of IoT Devices with Heuristics and Binary Code Similarity

Advisor: Prof. Yongdae Kim

M.S. in School of Electrical Engineering	Mar. 2014 – Feb. 2016
Thesis Title: Dissecting VoLTE: Exploiting Free Data Channels and Security Problems	
Advisor: Prof. Yongdae Kim	
B.S. in School of Computing	Feb. 2010 – Feb. 2014

EURECOM, France

Visiting Scholar in Software and System Security	Jun. 2014 – Jul. 2014
Learned embedded device analysis techniques, particularly for debugging interfaces	
Advisor: Prof. Aurélien Francillon	

HONORS & AWARDS

Hacking Contests (*i.e.*, Capture-the-flag, CTF)

Finalist, DEFCON 27 CTF	(Team KaisHack GoN) Aug. 2019
Finalist, DEFCON 26 CTF	(Team KaisHack+PLUS+GoN) Aug. 2018
1st place (\$20,000), HDCON CTF	(Team maxlen) Nov. 2017
1st place (\$30,000), Whitehat Contest	(Team Old GoatskiN) Nov. 2017
3rd place (\$5,000), Codegate CTF	(Team Old GoatskiN) Apr. 2017
Finalist, DEFCON 24 CTF	(Team KaisHack GoN) Aug. 2016
1st place (\$20,000), Whitehat Contest	(Team SysSec) Nov. 2014
Finalist, DEFCON 22 CTF	(Team KAIST GoN) Aug. 2014
Silver prize (\$2,000), HDCON CTF	(Team GoN) Dec. 2013
1st place (\$20,000), Whitehat Contest	(Team KAIST GoN) Oct. 2013
Finalist, DEFCON 20 CTF	(Team KAIST GoN) Jul. 2012
Silver prize (\$2,000), HDCON CTF	(Team KAIST GoN) Jul. 2012
3rd place (\$5,000), Codegate CTF 2012	(Team KAIST GoN) Apr. 2012
1st place (\$10,000), ISEC CTF	(Team GoN) Sep. 2011
1st place (\$1,000), PADOCON CTF	(Team GoN) Jan. 2011

Academic Awards

Best Paper Award, CISC-W	Nov. 2020
Title: Standard-based User Identifier Mapping Attack Prevention Method for LTE Network	
Best Presentation Award, A3 Security Workshop	Feb. 2016
Title: Breaking and Fixing VoLTE: Exploiting Hidden Data Channels and Mis-implementations	
Best Paper Award, WISA	Aug. 2015
Title: BurnFit: Analyzing and Exploiting Wearable Devices	

Reported Security Vulnerabilities

CVE-2015-6614, Android telephony privilege escalation, Google	Oct. 2015
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Certificates

Engineer Information Security (<i>i.e.</i> , 정보보안기사), South Korea	Jun. 2016
Engineer Information Processing (<i>i.e.</i> , 정보처리기사), South Korea	May 2013

Scholarships

National Scholarship (Science and Engineering), Korea Student Aid Foundation	Feb. 2010 – Feb. 2020
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PATENTS

International Registrations

US 10111120	Oct. 2018
Method and Apparatus for Checking Problem in Mobile Communication Network	

Domestic Registrations, South Korea

KR 10-2514809	Mar. 2023
VIDEO IDENTIFICATION METHOD IN LTE NETWORKS AND THE SYSTEM THEREOF	
KR 10-2418212	Jul. 2022
ARCHITECTURE-INDEPENDENT SIMILARITY MEASURING METHOD FOR PROGRAM FUNCTION	
KR 10-2415494	Jun. 2022
Emulation based security analysis method for embedded devices	
KR 10-2333866	Nov. 2021
Method and Apparatus for Checking Problem in Mobile Communication Network	
KR 10-1972825	Apr. 2019
Method and apparatus for automatically analyzing vulnerable point of embedded appliance by using hybrid analysis technology, and computer program for executing the method	
KR 10-1868836	Jun. 2018
A method to attack commercial drones using the resonance effect of gyroscopes by sound waves	

Applications

KR 10-2022-0132964	Oct. 2022
ANTI-DRONE SYSTEM THROUGH COMMUNICATION DISTORTION BETWEEN SENSOR AND CONTROL UNIT AND ITS OPERATION METHOD	
KR 10-2021-0168382	Nov. 2021
Method and System for Automatically Analyzing Bugs in Cellular Baseband Software using Comparative Analysis based on Cellular Specifications	
KR 10-2021-0136352	Oct. 2021
METHOD FOR PREVENTING MAPPING OF USER IDENTIFIERS IN MOBILE COMMUNICATION SYSTEM AND THE SYSTEM THEREOF	
KR 10-2021-0040795	Mar. 2021
ANALYSIS SYSTEM FOR DETECTION OF SIP IN VoLTE AND THE METHOD THEREOF	
KR 10-2020-0177062	Dec. 2020
Analysis method for detection of SIP implementation vulnerability in VoLTE	
KR 10-2020-0133926	Oct. 2020
Method to prevent mapping of user identifiers in mobile communication system	
KR 10-2020-0133925	Oct. 2020
APPARATUS AND METHOD FOR VIDEO TITLE IDENTIFICATION OF MOBILE COMMUNICATION NETWORK USING ENCRYPTED TRAFFIC MONITORING	
KR 10-2019-0005131	Jan. 2019
Large-scale honeypot system IoT botnet analysis	
KR 10-2018-0036403	Mar. 2018
Dynamic analysis method for malicious embedded firmware detection	
KR 10-2018-0036055	Mar. 2018
Emulation based security analysis method for embedded devices	
KR 10-2018-0037291	Mar. 2018
Binary-Level Virtual Function Call Protection Method by Saving Type Information	
KR 10-2018-0034616	Mar. 2018
ARCHITECTURE-INDEPENDENT SIMILARITY MEASURING METHOD FOR PROGRAM FUNCTION	

PUBLICATIONS (INTERNATIONAL)

(*: co-first authors)

9 papers in top-tier conferences and journals (USENIX Security, CCS, NDSS, TSE, TMC)

1. **BaseComp: A Comparative Analysis for Integrity Protection in Cellular Baseband Software**
Eunsoo Kim*, Min Woo Baek*, CheolJun Park, Dongkwan Kim, Yongdae Kim, and Insu Yun
Proceedings of the 32nd USENIX Security Symposium (Security'23)
Acceptance rate: 29.22% (422 of 1,444) Aug. 2023
2. **Un-Rocking Drones: Foundations of Acoustic Injection Attacks and Recovery Thereof**
Jinseob Jung, Dongkwan Kim, Joonha Jang, Juhwan Noh, Changhun Song, and Yongdae Kim
Proceedings of the 2023 Annual Network and Distributed System Security Symposium (NDSS'23)
Acceptance rate: 16.18% (94 of 581) Mar. 2023
3. **Paralyzing Drones via EMI Signal Injection on Sensory Communication Channels**
Junha Jang, ManGi Cho, Jaehoon Kim, Dongkwan Kim, and Yongdae Kim
Proceedings of the 2023 Annual Network and Distributed System Security Symposium (NDSS'23)
Acceptance rate: 16.18% (94 of 581) Mar. 2023
4. **Watching the Watchers: Practical Video Identification Attack in LTE Networks**
Sangwook Bae, Mincheol Son, Dongkwan Kim, CheolJun Park, Jiho Lee, Sooel Son, and Yongdae Kim
Proceedings of the 31st USENIX Security Symposium (Security'22)
Acceptance rate: 18.10% (256 of 1,414) Aug. 2022
5. **Revisiting Binary Code Similarity Analysis using Interpretable Feature Engineering and Lessons Learned**
Dongkwan Kim, Eunsoo Kim, Sang Kil Cha, Sooel Son, and Yongdae Kim
IEEE Transactions on Software Engineering (TSE'22) Jul. 2022
6. **Improving Large-Scale Vulnerability Analysis of IoT Devices with Heuristics and Binary Code Similarity**
Dongkwan Kim
Ph.D. Thesis, KAIST Daejeon, South Korea, Feb. 2022
7. **Enabling the Large-Scale Emulation of Internet of Things Firmware With Heuristic Workarounds**
Dongkwan Kim, Eunsoo Kim, Mingeun Kim, Yeongjin Jang, and Yongdae Kim
IEEE Security & Privacy May 2021
8. **BaseSpec: Comparative Analysis of Baseband Software and Cellular Specifications for L3 Protocols**
Dongkwan Kim*, Eunsoo Kim*, CheolJun Park, Insu Yun, and Yongdae Kim
Proceedings of the 2021 Annual Network and Distributed System Security Symposium (NDSS'21)
Acceptance rate: 15.18% (87 of 573) Virtual, Feb. 2021

9. **FirmAE: Towards Large-Scale Emulation of IoT Firmware for Dynamic Analysis**
Mingeun Kim, Dongkwan Kim, Eunsoo Kim, Suryeon Kim, Yeongjin Jang, and Yongdae Kim
Proceedings of the 2020 Annual Computer Security Applications Conference (ACSAC'20)
Acceptance rate: 23.18% (70 of 302) Virtual, Dec. 2020

10. **Who Spent My EOS? On the (In)Security of Resource Management of EOS.IO**
Sangsup Lee, Daejun Kim, Dongkwan Kim, Sooel Son, and Yongdae Kim
Proceedings of the 13th USENIX Workshop on Offensive Technologies
(WOOT'19) Santa Clara, CA, Aug. 2019

11. **Peeking over the Cellular Walled Gardens - A Method for Closed Network Diagnosis**
Byeongdo Hong, Shinjo Park, Hongil Kim, Dongkwan Kim, Hyunwook Hong, Hyunwoo Choi, Jean-Pierre Seifert, Sung-Ju Lee, and Yongdae Kim
IEEE Transactions on Mobile Computing (TMC'18) Feb. 2018

12. **When Cellular Networks Met IPv6: Security Problems of Middleboxes in IPv6 Cellular Networks**
Hyunwook Hong, Hyunwoo Choi, Dongkwan Kim, Hongil Kim, Byeongdo Hong, Jiseong Noh, and Yongdae Kim
Proceedings of the 2nd IEEE European Symposium on Security and Privacy (EuroS&P'17)
Acceptance rate: 19.58% (38 of 194) Paris, France, Apr. 2017

13. **Pay As You Want: Bypassing Charging System in Operational Cellular Networks**
Hyunwook Hong, Hongil Kim, Byeongdo Hong, Dongkwan Kim, Hyunwoo Choi, Eunkyu Lee, and Yongdae Kim
Proceedings of the 17th International Workshop on Information Security Applications
(WISA'16) Jeju, South Korea, Aug. 2016

14. **Dissecting VoLTE: Exploiting Free Data Channels and Security Problems**
Dongkwan Kim
M.S. Thesis, KAIST Daejeon, South Korea, Feb. 2016

15. **Breaking and Fixing VoLTE: Exploiting Hidden Data Channels and Mis-implementations**
Dongkwan Kim^{*}, Hongil Kim^{*}, Minhee Kwon, Hyungseok Han, Yeongjin Jang, Dongsu Han, Taesoo Kim, and Yongdae Kim
Proceedings of the 22nd ACM Conference on Computer and Communications Security (CCS'15)
Acceptance rate: 19.81% (128 of 646) Denver, CO, Oct. 2015

16. **BurnFit: Analyzing and Exploiting Wearable Devices**
Dongkwan Kim, Suwan Park, Kibum Choi, and Yongdae Kim
Proceedings of the 16th International Workshop on Information Security Applications (WISA'15)
Best Paper Award Jeju, South Korea, Aug. 2015

17. **Rocking Drones with Intentional Sound Noise on Gyroscopic Sensors**
Yunmok Son, Hocheol Shin, Dongkwan Kim, Youngseok Park, Juhwan Noh, Kibum Choi, Jungwoo Choi, and Yongdae Kim
Proceedings of the 24th USENIX Security Symposium (Security'15)
Acceptance rate: 15.73% (67 of 426) Austin, TX, Aug. 2015

18. **Analyzing Security of Korean USIM-based PKI Certificate Service**
Shinjo Park, Suwan Park, Insu Yun, Dongkwan Kim, and Yongdae Kim
Proceedings of the 15th International Workshop on Information Security Applications
(WISA'14) Jeju, South Korea, Aug. 2014
19. **High-speed Automatic Segmentation of Intravascular Stent Struts in Optical Coherence Tomography Images**
Myounghee Han, Dongkwan Kim, Wang-Yuhl Oh, and Sukyoung Ryu
Proceedings of SPIE Biomedical Optics, Photonics West 2013 (BiOS'13) San Francisco, CA, Feb. 2013

PUBLICATIONS (DOMESTIC, SOUTH KOREA)

1. **Video Service Identification Attack in LTE by Monitoring Encrypted Traffic**
Mincheol Son, Sangwook Bae, Dongkwan Kim, Jiho Lee, CheolJun Park, BeomSeok Oh, Sooel Son, and Yongdae Kim
Proceedings of Symposium of the Korean Institute of Communications and Information Sciences
(KCIS'21) Virtual, Jun. 2021
2. **Standard-based User Identifier Mapping Attack Prevention Method for LTE Network**
CheolJun Park, Sangwook Bae, Jiho Lee, Mincheol Son, Dongkwan Kim, Sooel Son, and Yongdae Kim
Conference on Information Security and Cryptography Winter (CISC-W'20)
Best Paper Award South Korea, Nov. 2020
3. **VoLTEFuzz: Framework for Comprehensive Analysis of SIP in VoLTE**
Seokbin Yun, Sangwook Bae, Mincheol Son, Dongkwan Kim, Jiho Lee, CheolJun Park, Yeongbin Hwang, and Yongdae Kim
Conference on Information Security and Cryptography Winter (CISC-W'20) South Korea, Nov. 2020
4. **Firm-Pot: Large-scale Firmware Honey-Pot for Malware Analysis**
Minguen Kim, Eunsoo Kim, Dongkwan Kim, and Yongdae Kim
Conference on Information Security and Cryptography Winter (CISC-W'18) South Korea, Dec. 2018
5. **TVT: Typed Virtual Table for Mitigating VTable Hijacking**
Jeongoh Kyea, Eunsoo Kim, Dongkwan Kim, and Yongdae Kim
Conference on Information Security and Cryptography Winter (CISC-W'17) South Korea, Dec. 2017
6. **Design and Implementation of GPS Spoofer Software**
Juhwan Noh, Dongkwan Kim, and Yongdae Kim
Conference on Information Security and Cryptography Summer (CISC-S'15) South Korea, Jun. 2015
7. **Security Analysis of USIM-based certificate service in Korea**
Shinjo Park, Suwan Park, Insu Yun, Dongkwan Kim, and Yongdae Kim
Conference on Information Security and Cryptography Summer (CISC-S'14) South Korea, Jun. 2014
8. **Security Analysis of Femtocells in Korea**
Eunsoo Kim, Dongkwan Kim, Youjin Lee, Shinjo Park, and Yongdae Kim
Conference on Information Security and Cryptography Summer (CISC-S'14) South Korea, Jun. 2014

INVITED TALKS

AI Security Primer: Red Team Perspectives on Navigating New Threats and Safeguarding AI Frontier

Hyundai Motors Group Security Center	Seoul, South Korea, Jan. 2025
AI Security Lecture for the SK Telecom Information Security Team	Seoul, South Korea, Jul. 2024
.HACK Conference by Theori	Seoul, South Korea, May. 2024

Scaling up Vulnerability Analysis of IoT Devices with Heuristics and Binary Code Similarity

Technology Exchange Meeting between Samsung Mobile Security Team and Hyundai Motor Company Vehicle Cyber Security Team	Seoul, South Korea, Jul. 2024
Colloquium at School of Cybersecurity, Korea University	Seoul, South Korea, Oct. 2023

Peeking over Industry's Patch Gap: Case Study of Samsung SmartTV's Web Browser

KAIST-Samsung SDS Tech Seminar	Daejeon, South Korea, Mar. 2023
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BaseSpec: Comparative Analysis of Baseband Software and Cellular Specifications for L3 Protocols

Annual Network and Distributed System Security Symposium	Virtual, Feb. 2021
KAIST-CISPA Workshop	Seoul, South Korea, Aug. 2019

Breaking and Fixing VoLTE: Exploiting Hidden Data Channels and Mis-implementations

A.k.a. Dissecting VoLTE: Exploiting Free Data Channels and Security Problems

GSMA RCS/VoLTE Security Regulatory workshop	Toronto, Canada, Sep. 2016
A3 Foresight Program Annual Workshop	Okinawa, Japan, Feb. 2016
Chaos Communication Congress (CCC) Conference (32C3)	Hamburg, Germany, Dec. 2015
National Security Research	Daejeon, South Korea, Nov. 2015
Power of Community (PoC) Conference	Seoul, South Korea, Nov. 2015
ACM Conference on Computer and Communications Security (CCS)	Denver, CO, Oct. 2015
Seminar at the Georgia Institute of Technology	Atlanta, GA, Oct. 2015

BurnFit: Analyzing and Exploiting Wearable Devices

16th WISA	Jeju, South Korea, Aug. 2015
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International CTF Challenge Solving

NetSec-KR	Seoul, South Korea, Apr. 2013
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PROFESSIONAL ACTIVITIES

Secondary Reviewer (Security)

IEEE Symposium on Security and Privacy (Oakland)	2021
USENIX Security Symposium (Security)	2019 – 2021
Network and Distributed System Security Symposium (NDSS)	2017 – 2018, 2020 – 2021
ACM Conference on Computer and Communications Security (CCS)	2017, 2019 – 2021
IEEE European Symposium on Security and Privacy (EuroS&P)	2016, 2018, 2020
ACM ASIA Conference on Computer and Communications Security (ASIACCS)	2016 – 2017, 2019 – 2020
The WEB Conference (WWW)	2018, 2020
International Symposium on Research in Attacks, Intrusions and Defenses (RAID)	2017
IEEE Symposium on Privacy-Aware Computing (PAC)	2017

Secondary Reviewer (System)

ACM Symposium on Operating Systems Principles (SOSP)	2019
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External Security Consultant

KAIST Computer Emergency Response Team

Sep. 2010 – Feb. 2022

PARTICIPATED PROJECTS

(*: participated as a project leader)

Industrial Projects

An Industry-academia Task with Samsung Electronics Device Solutions Business Samsung Electronics	Jun. 2020 – Aug. 2020
*Organizing 2018 Samsung Capture-the-flag (SCTF) Samsung Electronics	Apr. 2018 – Oct. 2018
*Organizing 2017 Samsung Capture-the-flag (SCTF) Samsung Electronics	Dec. 2016 – Dec. 2017
A Study on the Security Vulnerability Analysis and Response Method of LTE Networks SK Telecom	Aug. 2016 – Jul. 2017
A Security Vulnerability Analysis of Smartcar Core Modules Hyundai NGV	Jul. 2016 – Jun. 2017
A Study on the Security Analysis and Response Method of LTE Networks SK Telecom	Aug. 2015 – Apr. 2016
A Security Analysis of Samsung SmartTV 2014 Samsung Electronics	Feb. 2014 – Dec. 2015

International Projects

*Cyber Physical Analysis of System Software Survivability by Stimulating Sensors on Drones Air Force Office of Scientific Research (AFOSR), Air Force Research Laboratory (AFRL)	Jun. 2020 – Feb. 2022
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Governmental Projects

*A Study on the Android-based Security Analysis Technology National Security Research (NSR)	May 2020 – Dec. 2020
A Study on the Security of Random Number Generator and Embedded Devices Institute for Information & Communications Technology Planning & Evaluation (IITP)	Jul. 2017 – Jun. 2019
*A Study on the Firmware Emulation Technology for Linux-based Routers NSR	May 2017 – Oct. 2017
A Development of Automated Reverse Engineering and Vulnerability Detection Base Technology through Binary Code Analysis IITP	Apr. 2016 – Dec. 2018
*A CAPTCHA Design based on Human Perception Characteristics KAIST	Apr. 2016 – Dec. 2016
*A Study on the Vulnerability Analysis Method of Domestic/International Smartcars NSR	Apr. 2015 – Nov. 2015
A Study on the Analysis of Technology and Security Threats in LTE Femtocell Korea Internet & Security Agency (KISA)	Sep. 2013 – Jan. 2014

A Study on the Analysis and Response Method of Vulnerabilities in Network Devices	Mar. 2013 – Dec. 2013
NSR	
A Study on the Vulnerability Analysis of Network Devices	Apr. 2011 – Oct. 2011
NSR	

OTHER ACTIVITIES

Teaching Assistant, Introduction to Electronics Design Lab. (EE305), KAIST	Fall 2019
Teaching Assistant, Discrete Methods for Electrical Engineering (EE213), KAIST	Spring 2017
Teaching Assistant, Network Programming (EE324), KAIST	Fall 2016
Teaching Assistant, Cryptography Engineering (EE817/IS893), KAIST	Spring 2016
Teaching Assistant, Security 101: Think Like an Adversary (EE515/IS523), KAIST	Fall 2015
Student Representative of School of Computing, KAIST	Feb. 2011 – Dec. 2013
Head Instructor, Information Security 101 for Freshmen (HSS062), KAIST	Sep. 2011 – Feb. 2013
Teaching Assistant, Information Security 101 for Freshmen (HSS062), KAIST	Sep. 2010 – Aug. 2011

LIST OF REFERENCES

Dr. Yongdae Kim

Director, Cyber Security Research Center (CSRC), KAIST
 Professor, School of Electrical Engineering and Graduate School of Information Security, KAIST
 Email: yongdaek@kaist.ac.kr
 Homepage: <https://syssec.kaist.ac.kr/~yongdaek/>

Dr. Taesoo Kim

Professor, School of Cybersecurity and Privacy (SCP) and Computer Science (SCS), Georgia Tech
 Email: taesoo@gatech.edu
 Homepage: <https://taesoo.kim/>

Dr. Sang Kil Cha

Director, Cyber Security Research Center (CSRC), KAIST
 Associate Professor, School of Computing and Graduate School of Information Security, KAIST
 Email: sangkilc@kaist.ac.kr
 Homepage: <https://softsec.kaist.ac.kr/~sangkilc/>

Dr. Soeul Son

Associate Professor, School of Computing and Graduate School of Information Security, KAIST
 Email: sl.son@kaist.ac.kr
 Homepage: <https://sites.google.com/site/ssonkaist/>

Dr. Yeongjin Jang

Principal Software Engineer, Samsung Research America
 Email: y.jang1@samsung.com
 Homepage: <https://www.unexploitable.systems/>

Dr. Insu Yun

Associate Professor, School of Electrical Engineering, KAIST
 Email: insuyun@kaist.ac.kr
 Homepage: <https://insuyun.github.io/>