CURRICULUM VITAE

Personal Information

Full Name:

Full Curriculum Vitae:

Google Scholar: Personal Website: Seongmin Lee

https://nimgnoeseel.github.io/resources/cv/cv.pdf

https://scholar.google.com/citations?user=-YSnc6kAAAAJ&hl=en

https://nimgnoeseel.github.io

Education and Employment

Max Planck Institute for Security and Privacy

Postdoctoral Researcher, Software Security Research group (Group head: Dr. Marcel Böhme)

Korea Advanced Institute of Science and Technology

Doctor of Philosophy, School of Computing (Advisor: Dr. Shin Yoo)

Bachelor of Science, School of Computing

Bachelor of Science, Department of Mathematical Sciences

Germany

Sep. 2022 - Present Republic of Korea

Sep. 2016 - Aug. 2022

Feb. 2012 - Aug. 2016

Selected Publications

Journal Articles

- Seongmin Lee, David Binkley, Robert Feldt, Nicolas Gold, and Shin Yoo. Observation-based approximate dependency modeling and its use for program slicing. Journal of Systems and Software, page 110988, 2021
- Seongmin Lee, David Binkley, Nicolas Gold, Syed Islam, Jens Krinke, and Shin Yoo. Evaluating lexical approximation of program dependence. Journal of Systems and Software, 160:110459, 2020

Conference/Technical Reports

- *Danushka Liyanage, *Seongmin Lee, Chakkrit Tantithamthavorn, and Marcel Böhme. Extrapolating coverage rate in greybox fuzzing. In Proceedings of the IEEE/ACM 46th International Conference on Software Engineering, ICSE '24, New York, NY, USA, 2024. Association for Computing Machinery (*Co-first authors with equal contribution)
- Seongmin Lee and Marcel Böhme. Statistical reachability analysis. In Proceedings of the 31st ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, ESEC/FSE 2023, pages 326–337, New York, NY, USA, 2023. Association for Computing Machinery
- S. Lee, S. Hong, J. Yi, T. Kim, C. Kim, and S. Yoo. Classifying false positive static checker alarms in continuous integration using convolutional neural networks. In 2019 12th IEEE Conference on Software Testing, Validation and Verification (ICST), pages 391-401, 2019
- Seongmin Lee, Dave Binkley, Robert Feldt, Nicolas Gold, and Shin Yoo. Causal program dependence analysis and causal fault localization. Technical Report CS-TR-2021-423, Korea Advanced Institute of Science and Technology, 291 Daehak-ro, Yuseong-gu, Daejeon, Korea 34141, January 2021

Academic Services

*Services before 2023 are omitted.

- Program committee: ISSTA'24, FUZZING'24, SCAM'24, ASE'23 / (Artifact Evaluation) ISSTA'24, ECOOP'24, USENIX'24, ICSE'24, ISSTA'23 / (Student Research Competition) FSE'24
- Reviewer: TOSEM'24, TSE'24, IST'24, ASE'24 / (External) FSE'24, ECOOP'24, ICSE'23, ISSTA'23

Grants and Fellowships

• Title: Statistical Security Analysis for Large, Evolving Software

Grant ID: DFG under Germany's Excellence Strategy - EXC 2092 CASA - 390781972

Amount: Salary according to the remuneration group E 14 TV-L (full time, ~ €65,000), Duration: 2024.01.01 − 2025.12.31

Awards and honors

- PhD Dissertation Award, School of Computing, KAIST, 2022
 - Title of Dissertation: Statistical Program Dependence Approximation
- 2021 Naver Ph.D. Fellowship Award: Awarded by NAVER Corp. to Ph.D. candidates who have published an outstanding research paper or have excellent publication performance, 2021