DONGJAE LEE

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SUMMARY

I am currently a master's student in computer science and engineering, especially interested in program verification. Specifically, I investigate what it means for a program to be correct, develop proof techniques, and write programs and prove them correct.

EDUCATION

M.S., Computer Science and Engineering Expected 02.2024
Seoul National University, Seoul, South Korea

B.S., Double major in Physics and Computer Science and Engineering 08.2021
Seoul National University, Seoul, South Korea

EXPERIENCE

Max Planck Institute for Security and Privacy 03.2023 - 08.2023
Bochum, Germany: Research Intern

- Advised by Cătălin Hriţcu

ROK Army 01.2019 - 09.2020
South Korea: Sergeant

- Mandatory Military Service

Integrated Quantum Systems Lab (Seoul National University) 04.2017 - 08.2017
Seoul, South Korea: Research Intern

- Research and experiments on NV center qubits
- Programmed and developed devices for experiments

PUBLICATIONS

*equal contribution

Fair Operational Semantics
Dongjae Lee*, Minki Cho*, Jinwoo Kim, Soonwon Moon, Youngju Song, Chung-Kil Hur.
44rd ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2023).

Conditional Contextual Refinement
Youngju Song, Minki Cho, **Dongjae Lee**, Chung-Kil Hur, Michael Sammler, Derek Dreyer.
50th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2023).

Sequential Reasoning for Optimizing Compilers under Weak Memory Concurrency
Minki Cho*, Sung-Hwan Lee*, **Dongjae Lee**, Chung-Kil Hur, Ori Lahav.
43rd ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2022).

ACTIVITIES

(talk) Fair operational semantics 06.2023
Orlando, Florida, United States: PLDI 2023

(talk) Fair operational semantics 02.2023
Seoul, South Korea: SIGPL Winter School 2023 (The Korean Institute of Information Scientists and Engineers)