Byeonggil Jun

Computer Engineering Ph.D. Studnet
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Arizona State University

EDUCATION

Arizona State University Tempe, AZ, USA
Ph.D. student in Computer Engineering Jan.2024 − Present
- School of Comuting and Augmented Intelligence
- Advisor: Professor Hokeun Kim

Hanyang University Seoul, South Korea
B.S. in Electronic Engineering Mar.2018 − Feb.2024
- Department of Electronic Engineering
- Advisor: Professor Hokeun Kim
- Overall GPA: 4.26/4.5 (97.9/100)

AREAS OF INTEREST

Embedded Systems, Cyber-Physical Systems, Real-time Systems, Computer Architecture

PUBLICATIONS

Byeonggil Jun, Edwared.A.Lee, Marten Lohstroh, and Hokeun Kim, "Efficient Coordination for Distributed Discrete-Event Systems", International Symposium on Formal Methods and Models for System Design (MEMOCODE), Raleigh, NC, Sep 2024.

Byeong-gil Jun, Dongha Kim, Marten Lohstroh, and Hokeun Kim, "Reliable Event Detection Using Time-Synchronized IoT Platforms," Time-Centric Reactive Software (TCRS), San Antonio, TX, May 2023.

PREPRINTS

Peter Donovan, Erling Jellum, Byeonggil Jun, Hokeun Kim, Edward A. Lee, Shaokai Lin, Marten Lohstroh, and Anirudh Rengarajan, "Strongly-Consistent Distributed Discrete-event Systems", arXiv preprint arXiv:2405.12117 (https://arxiv.org/abs/2405.1211 May 2024.

HONORS AND AWARDS

ESWEEK 2024 Student Travle Grant, Sep 2024
CPS-IoT Week 2023 Travel Grant Award, May 2023
Academic Achievement Excellence Award, Hanyang University, 2022-2, 2022-1, 2021-1
Merit-Based Scholarship, Hanyang University, 2022-2, 2022-1, 2021-1
30th SeAH-Haiam Scholarship, 2021

RESEARCH EXPERIENCE

ASU KIM Lab Tempe, AZ, USA
Research Assistant Jan.2024 − Present
- Lead a Lingua Franca project on enhancing performance of HLA-based distributed discrete-event systems
- Participate in a project on soft-error tolerant real-time systems
- Participate in a project on developing secure and efficient memory sharing techniques for virtual machines running on trusted execution environment (TEE)

HYU IoT Lab Seoul, South Korea
Undergraduate Research Intern Mar.2022 − Dec.2023
- Participated in Lingua Franca projects on improving reactor models using C and TypeScript
- Led project on detecting events reliably using simple distance sensors with the TypeScript targeted reactor model

ACADEMIC SERVICES

Secondary Reviewer
- Design, Automation, and Test in Europe Conference and Exhibition (DATE 2024)
- ACM SIGBED International Conference on Embedded Software (EMSOFT 2023)

Extracurricular Activities
Military Service   Republic of Korea Army
Army sergeant, honorable discharge   May.2019 − Dec.2020
- Serviced as a military heavy vehicle driver

A department student's association   Hanyang University
                                                                        Mar.2018 − Feb.2019
- Designed and led social activities for department students such as college retreat, school annual festival, and orientation