

CHANGMIN JEON

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Seoul, Republic of Korea

RESEARCH INTERESTS

On-Device AI Systems, Scene Understanding for XR Applications, DNN with Synthetic Data

EDUCATION

Seoul National University

Ph.D. Student in Computer Science and Engineering (*Advisor: Youngki Lee*)

Mar 2020 - Present

Seoul, Republic of Korea

Seoul National University

B.S. in Computer Science and Engineering

Mar 2014 - Feb 2020

Seoul, Republic of Korea

Seoul National University

B.S. in Mechanical Engineering

Mar 2014 - Feb 2020

Seoul, Republic of Korea

PUBLICATIONS

Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors

Joo Seong Jeong*, Jingyu Lee*, Donghyun Kim, **Changmin Jeon**, Changjin Jeong, Youngki Lee and Byung-Gon Chun

(* Both authors contributed equally to the paper)

20th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)

June 2022

RESEARCH PROJECTS

Hand-Object Tracking

Aug 2023 - Present

Changmin Jeon, Dongho Han and Youngki Lee

A real-time mobile hand-object tracking system for XR applications

FallSim: Accurate Fall Detection with Synthesized Fall Motions

Mar 2023 - Present

Hyunwoo Jung, Jungnam Park, Taeho Kang, **Changmin Jeon** and Youngki Lee

Robust real-world fall detection with synthesized fall motions

Mondrian: Edge-Enabled High-Performance Video Analytics with Compressive Packed Inference

Aug 2023

Changmin Jeon*, Seonjun Kim, Juheon Yi and Youngki Lee

On-device high-throughput multi-camera video analytics with compressive packed inference

Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors

Jun 2022

Joo Seong Jeong*, Jingyu Lee*, Donghyun Kim, **Changmin Jeon**, Changjin Jeong, Youngki Lee and Byung-Gon Chun

Multi-DNN inference platform for heterogeneous mobile processors with subgraph-level scheduling

VSense: Enabling Activity Recognition with Virtual Reality

Mar 2020

Hyunwoo Jung*, **Changmin Jeon***, Inseok Hwang and Youngki Lee

Real-world activity recognition applications with generated virtual IMU data

GRANTS

National Science & Technology Scholarship (\$24000)

Mar 2014 - Feb 2020

HONORS & AWARD

Best Teaching Assistant

Mar 2023

SNU & Samsung Data Science Course: Machine Learning (44 TAs)

SKILLS

Programming Languages

C++, Python, Java, C, Rust, Kotlin

Familiar Softwares

Mobile Deep Learning Frameworks (e.g., TFLite, MNN)

TensorFlow, PyTorch, OpenCV, Android SDK, Unity

ACADEMIC SERVICES

IMWUT 2022 (May 2022 round)

External Reviewer

TEACHING ASSISTANT

SNU & LG Data Science Course: Machine Learning

Jan 2024 / Jan 2023 / Jan 2022 / Jan 2021 / Feb 2020

Machine learning theory and practice with *An Introduction to Statistical Learning*

SNU & Samsung Data Science Course: Machine Learning

Jul 2023 / Mar 2023 / Mar 2022 / Aug 2021 / Feb 2021 / Aug 2020 / Feb 2020

Machine learning theory and practice with *An Introduction to Statistical Learning*

SNU & Samsung Data Science Course: Machine Learning Projects

Machine learning projects with *Kaggle*

Oct 2023 / Jun 2023

SNU & SK Hynix ML Engineer Course: Time Series Data Analysis

Linear & non-linear models, hidden markov model, filtering methods, and deep learning models

Aug 2022 / Nov 2022

SNU Big Data & Fintech Expert Training Course: Fintech Industry Application

Mobile deep learning & machine learning application development

Apr 2021

SNU Computer Programming (M1522.000600)

Object oriented programming in java & C++

Fall 2020

SNU Mobile and Ubiquitous Computing (M1522.003300)

Activity recognition, localization, health care, power optimization, cloud and edge systems

Spring 2020

WORK EXPERIENCE

EQUALKEY

Software development intern

Knowledge Graph Generation, Educational Game Development

Dec 2018 - Feb 2019

Republic of Korea

Republic of Korea Army

Military Service

May 2016 - Feb 2018

Republic of Korea