Wooshik, Myung

Department of Precision Instrument
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Education

SEP 2018 – Present
Tsinghua University Beijing, China
- Candidate for Master of Science in Precision Instrument
- Research interests: Brain inspired computing, Machine Learning, Deep Learning, Reinforcement Learning, Routing Algorithm for NoC Architecture
- Current research: Model-to-Mapping for Neuromorphic Computing Device
- Major GPA: 3.73/4.0

JUL 2013 – SEP 2017
Tsinghua University Beijing, China
- Bachelor of Science in Precision Instrument
- Thesis: *'Dielectrophoresis-Enhanced Cell Sensing with Gold Nanohole Arrays'*

Research Experience

SEP 2019 – AUG 2020
CBICR at Tsinghua University Beijing, China
Member of Designing Routing part of TIANJIC
- Project : Design a structure of router for Multi-chip Many-core neuromorphic system.
- Designing Routing Strategy on Multi-chip Many-core system for avoiding several routing problems.
- Build a simulator to evaluate the routing performance of TIANJIC.
- Two version of program: written in C++ and python.

NOV 2017 – APR 2018
CBICR at Tsinghua University Beijing, China
- Project: Modification of NoC Simulator BookSim2.0
- BookSim 2.0 is an C++ based open source simulator for Network-on-Chip. To meet our special needs of the project, the source code of the simulator was modified to operate multicast routing under the fixed traffic pattern.

Papers

Under Review **TNNLS - Policy Gradient-based Core Placement Optimization for Multi-chip Many-core systems (1st Author)**
Keyword: Physical mapping, Deadlock-free placement, reinforcement-learning, community detection algorithm

APR 2018 **ICIASE - Performance Analysis of Routing Algorithms in Mesh Based Network on Chip using Booksim Simulator (1st Author)**
Keyword: Network-on-chip, routing algorithm, performance comparison

Work Experience

NOV 2019 – Present
Korean Scientists and Engineers Association in China (KSEACH) Beijing, China
Assistant Administrator and Associate Member
- Help professors and members of KSEACH organize general meetings and periodic conferences to promote academic exchanges among professionals and experts in China

OCT 2019 – SEP 2020 **China AI Service and APP Analysis with NAVER** Beijing, China
Freelancer
- Research and follow up on the services of APPs that are widely used in China
- Analyze and summarize high level AI technologies of APPs (Image classification, NLP, Recommendation algorithm etc.)

SEP 2019 – Present **Tsinghua University Korean Graduate Student Association** Beijing, China
- Plan and conduct events such as forums to facilitate active exchange of information and academic researches among Korean graduate students, professors, corporates, organizations, and embassy in Beijing
- Connect Korean graduate students at Tsinghua to Career resources and programs, encouraging them to explore more career opportunities in China

Honors and Awards

SEP 2018 – Present **Beijing Government Scholarship (Full Funding)**

Skills

- Programs **: MATLAB, COMSOL, ADOBE ILLUSTRATOR**
- Computer Languages : **Python (Tensorflow, Keras, Pytorch), C/C++, HTML5**
- Language: **Native Korean, Fluent in English, and Chinese**