



WASSAPON WATANAKEESUNTORN

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Profile

Doctoral student at Division of Information Science, Nara Institute of Science and Technology, Japan. Member of Software Design and Analysis Laboratory. Currently working on project about monitoring tool for Software-defined networking (SDN) and HPC application optimization on AI Bridging Cloud Infrastructure (ABCI) supercomputer.

Education

- **Nara Institute of Science and Technology, Japan**
Doctoral degree of Information Science, October 2019 – September 2022 (Expected)
Member of Software Design and Analysis Laboratory
- **Nara Institute of Science and Technology, Japan**
Master's degree of Information Science, October 2017 – September 2019
Member of Software Design and Analysis Laboratory
- **Kasetsart University, Thailand**
Bachelor's degree of Computer Engineering, June 2013 – May 2017
Member of High Performance Computing and Networking Center
- **Saint Dominic School, Thailand**
Elementary and High School, January 2001 – March 2013

Languages

- Thai: Native
- English: Professional
 - o TOEIC-IP: 865/990 (Jan. 2021)
- Japanese: Beginner

Skills

- Programming Languages: Experience in C, C++, C#, Python, JavaScript
- Parallel Computing: Experience in MPI and OpenMP
- Administrator tools: Experience in Singularity, Docker, Ansible
- Cloud and Supercomputer: Experience in AI Bridging Cloud Infrastructure (ABCI), Amazon Web Service (AWS), Microsoft Azure, Google Cloud Platform (GCP)
- Machine Learning: TensorFlow, Keras

Experience

- **Scripps Institute of Oceanography, University of California San Diego**
Visiting Scholar, September 2019 – October 2019
Did a research project about EDM code optimization and acceleration with CUDA for AI Bridging Cloud Infrastructure (ABCI). This project is collaboration between Nara Institute of Science and Technology, National Institute of Advanced Industrial Science and Technology, Scripps Institute of Oceanography (University of California San Diego), and Salk Institute for Biological Studies.

- **National Institute of Advanced Industrial Science and Technology**
Research Student (Internship), August 2018 – September 2018
Did a research project about EDM code optimization and acceleration with CUDA for AI Bridging Cloud Infrastructure (ABCI).
- **Innovative Extremist Co., LTD**
Back-end Developer (Internship), June 2017 – August 2017
Developed a back-end application with Laravel web framework (PHP).
- **Nara Institute of Science and Technology**
Research Student (Internship), June 2016 – July 2016
Did a research project about monitoring tool for OpenFlow network which using Ryu Library and visualize the information via web page.

Publications

- **Real-Time Monitoring and Visualization Software for OpenFlow Network**
Wassapon Watanakeesuntorn, Putchong Uthayopas, Kohei Ichikawa, Chantana Chantrapornchai
15th IEEE International Conference on ICT and Knowledge Engineering (ICT&KE), Thailand, 2017
- **A Proposal of a Real-Time OpenFlow DDoS Detection Tool**
Wassapon Watanakeesuntorn, Kohei Ichikawa, Hajimu Iida
IPSJ SIG Internet and Operation Technology, Japan, 2018
- **Massively Parallel Causal Inference of Whole Brain Dynamics at Single Neuron Resolution**
Wassapon Watanakeesuntorn, Keichi Takahashi, Kohei Ichikawa, Joseph Park, George Sugihara, Ryosei Takano, Jason Haga, Gerald M Pao
26th IEEE International Conference on Parallel and Distributed Systems (ICPADS), Hong Kong, 2020

Contributions

- **Performance Comparison of Machine Learning Models for DDoS Attacks Detection**
Panida Khuphiran, Pattara Leelaprute, Putchong Uthayopas, Kohei Ichikawa, Wassapon Watanakeesuntorn
22nd International Computer Science and Engineering Conference (ICSEC), Thailand, 2018

Posters

- **An Implementation of OpenFlow Network Monitoring and Visualization Tools**
Wassapon Watanakeesuntorn, Pongsakorn U-chupala, Chawanat Nakasan, Yasuhiro Watashiba, Kohei Ichikawa, Hajimu Iida, Putchong Uthayopas
PRAGMA31 Workshop, Thailand, 2016
- **A proposal of a real-time OpenFlow DDoS detection tool**
Wassapon Watanakeesuntorn, Kohei Ichikawa, Hajimu Iida, Putchong Uthayopas
PRAGMA34 Workshop, Japan, 2018
- **rEDM Code Acceleration with ABCI Supercomputer**
Wassapon Watanakeesuntorn, Kohei Ichikawa, Jason Haga, Gerald Pao, Erik Saberski
PRAGMA35 Workshop, Malaysia, 2018
- **Calculation of Complete Zebrafish Brain Neural Activities on ABCI**
Wassapon Watanakeesuntorn, Kohei Ichikawa, Keichi Takahashi, Jason Haga, Gerald Pao
PRAGMA36 Workshop, South Korea, 2019
- **Modeling of Complete Zebrafish Brain Neural Activities on ABCI**
Wassapon Watanakeesuntorn, Kohei Ichikawa, Keichi Takahashi, Jason Haga, Joseph Park, Gerald Pao
PRAGMA37 Workshop, California, United States, 2019

Oral Presentation

- **An Implementation of OpenFlow Network Monitoring and Visualization Tools**
Wassapon Watanakeesuntorn
PRAGMA31 Workshop, Thailand, 2016
- **An Interactive Monitoring Tool for OpenFlow Networks**
Wassapon Watanakeesuntorn
PRAGMA37 Workshop, California, United States, 2019

Awards and Acknowledgements

- Head of Nara of the 79th cohort of Thai Students' Association in Japan under the Royal Patronage (TSAJ)
- Session Chair of Student Presentation and Poster Session at PRAGMA37 Workshop, San Diego, California, United States
- Session Chair of Student Presentation and Poster Session at PRAGMA36 Workshop, Jeju, South Korea
- Session Chair of Student Presentation, Poster, and Lightning Talks Session at PRAGMA35 Workshop, Penang, Malaysia
- Session Chair of Poster and Lightning Talks Session at PRAGMA34 Workshop, Tokyo, Japan
- Participated in ACM-ICPC 2015, National Round, Thailand
- Participated in PRAGMA31 Student Hackathon, Bangkok, Thailand
- Participated in PRAGMA31 Workshop with poster and demo presentation, Bangkok, Thailand
- Organized Barcamp Bangkokhen 5 and Barcamp Bangkokhen 6, Kasetsart University, Thailand
- Organized eXceed Camp 12th, Kasetsart University, Thailand