Division of Super Distributed Intelligent Systems

Installation Period: April 1st, 2016 - March 31st, 2021

Members:

Director	Munehiro TAKIMOTO	Professor, Department of Information Sciences
	Hayato OHWADA	Professor, Department of Industrial Administration
	Kiyoshi DOWAKI	Professor, Department of Industrial Administration
	Kazuyuki KUCHITSU	Professor, Department of Applied Biological Science
	Hirohito KOJIMA	Professor, Department of Civil Engineering
	Shinichi KIMURA	Professor, Department of Electrical Engineering
	Hiroyuki NISHIYAMA	Associate Professor, Department of Industrial Administration
	Hiroshi TAKEMURA	Associate Professor, Department of Mechanical Engineering
	Kengo MOROHASHI	Associate Professor, Department of Applied Biological Science
	Taku HARADA	Junior Associate Professor, Department of Industrial Administration
	Tomofumi MATSUZAWA	Assistant Professor, Department of Information Sciences
Visiting Prof.	Mitsuo GEN	Senior Research Scientist, Fuzzy Logic Systems Institute

Objectives

Development of new parallelizing or distributing techniques in several level, and application of them to several areas including AI.

Members of the division and their relations



Research Topics

- improving system performance using application-level techniques such as a cloud computing.
- improving the parallelization and distribution techniques on various infrastructures.
- developing models for making infrastructures work more efficiently. Also, they develop new models through which the improvements of infrastructures directly lead to the speedup of applications.

Future Development Goals:

Development of highly parallelized/distributed AI systems that can handle manually processed huge data, and multiple robots for practical missions.

Research High Light ① Cooperation Based Parallel Logic Learning System

Idle workers steal jobs from other busy workers.

• Workers prune wasteful searches by sharing their estimation.



- Noticing probability of it using IoT and A.I.
- Uninvasive delivery monitoring
- Contribution to stable production of calves and decrease of users' load