MAGORI LAB.

[Optimal control of building operation energy by using AI]

Academic-industry partnership for machine leaning and AI control technology for energy conservation and creation in construction sector, Social Cooperation Program
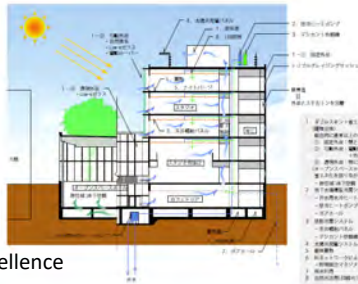
Energy Demand Management Engineering
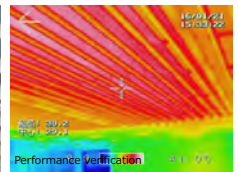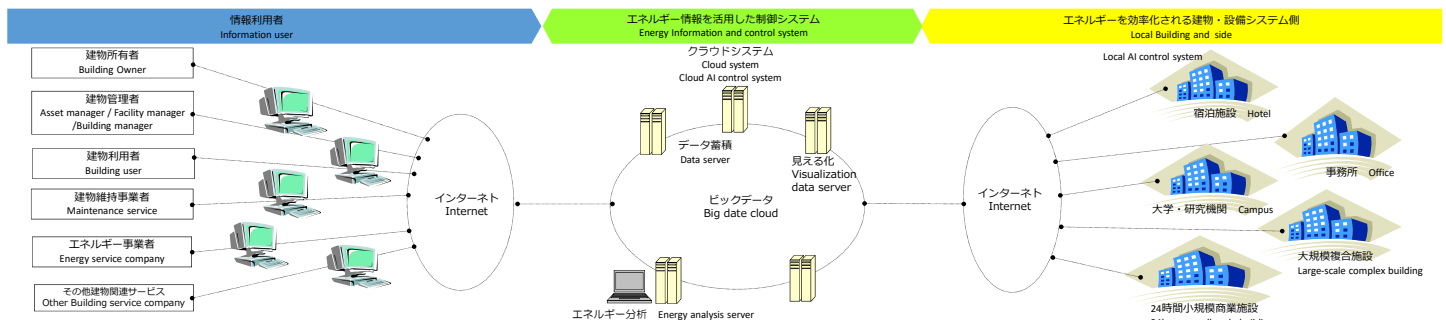
Engineering/Architecture   http://www.magorilab.iis.u-tokyo.ac.jp/

Louver type radiation panel (developed product)

Easy assembly system

Performance verification

Environment and Energy Conservation store
▲ 70% energy saving

Komaba Center for Educational Excellence
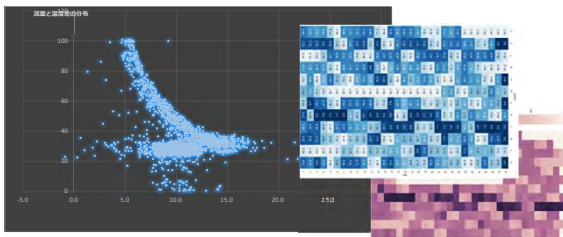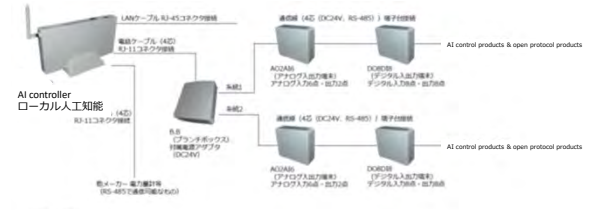▲ 67% energy saving

In the next-generation systems energy, we need to optimize utilization of relevant technologies (Sustainable technology, Energy creation, Natural energy, Unutilized energy, Energy interchange, and Energy Conservation.)Using information related to buildings, analyze for optimized control by machine learning and AI. We aim to construct a system that surpasses and coordinates with various smart systems, and we propose social implementation of the next generation platform in cooperation with domestic and overseas, society and companies.

R&D of energy analysis technology by machine learning using big data

Application development research of general-purpose sensor, AI optimization control system

Easy systematization of devices. Individual recognition of individual sensors with open protocol

R&D of Sensor ＆ Control system
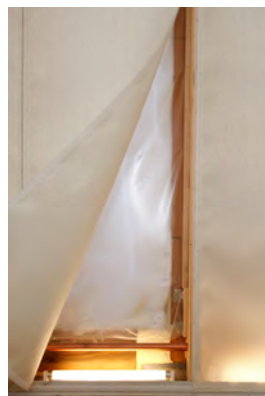

Sensor controller

watt-hour meters

Window thermal sensors

Passive + Active insulation

Earthquake acceleration sensor

Boiler Thermal sensors

Outside air Thermal and Humidity sensors