

MAGORI LAB.

[Utilizing building data, improve space and function.] (Machine learning and AI application)

Academic-industry partnership for machine learning and AI control technology for energy conservation and creation in construction sector, Social Cooperation Program

Energy Demand Management Engineering

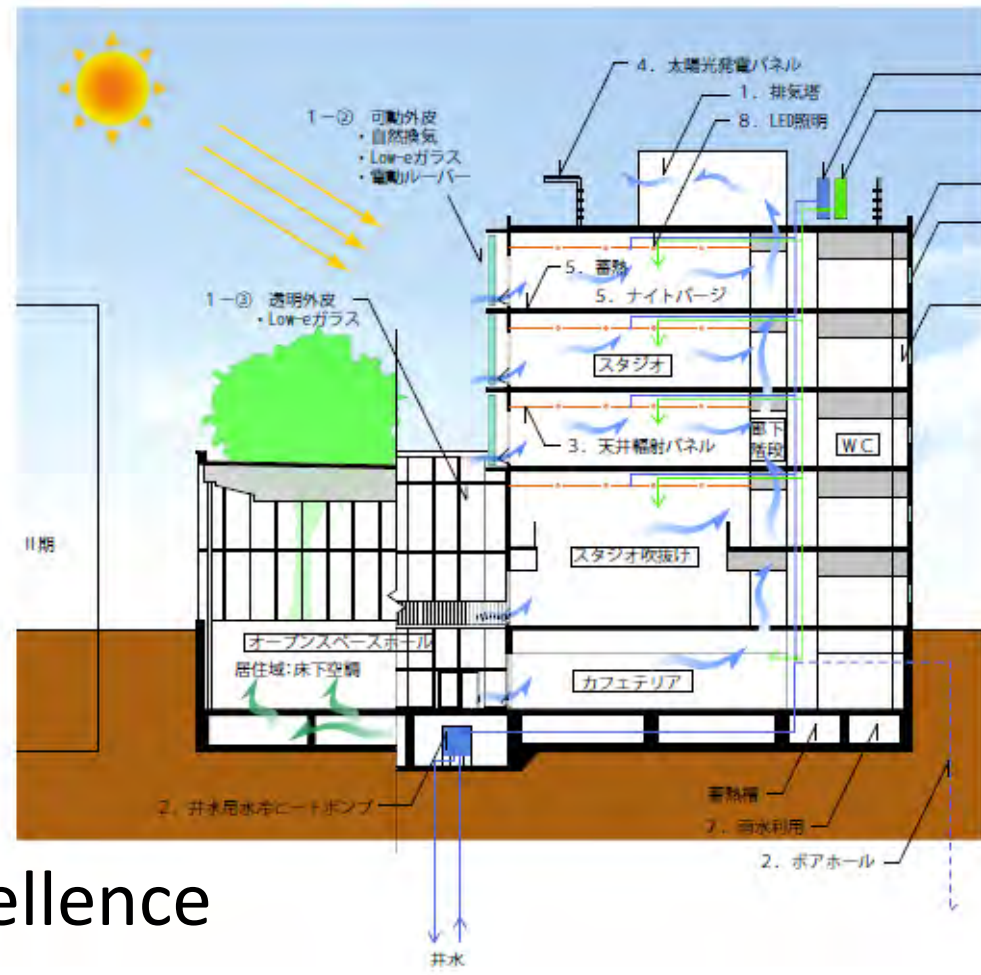
Engineering/Architecture

<http://www.magorilab.iis.u-tokyo.ac.jp/>



Komaba Center for Educational Excellence

▲ 67% energy saving

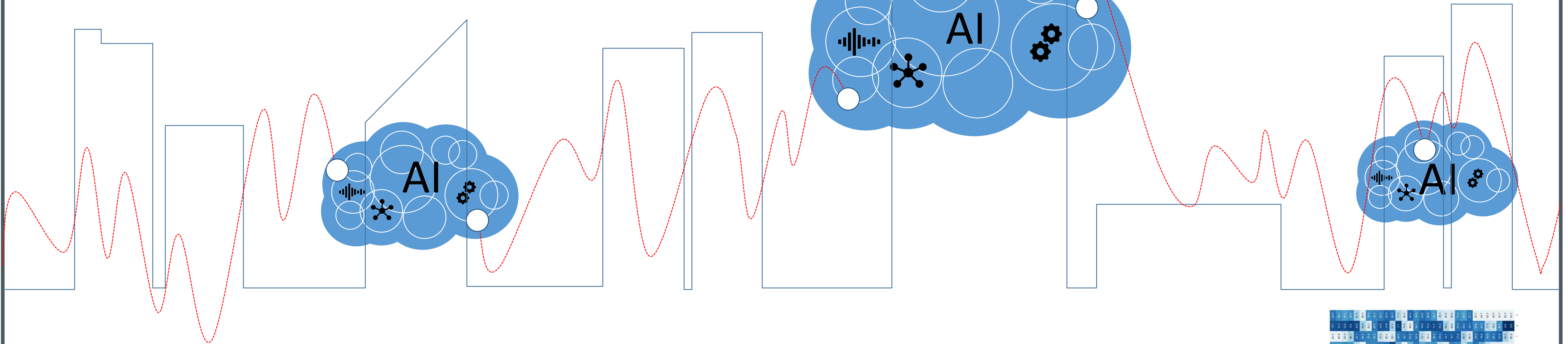
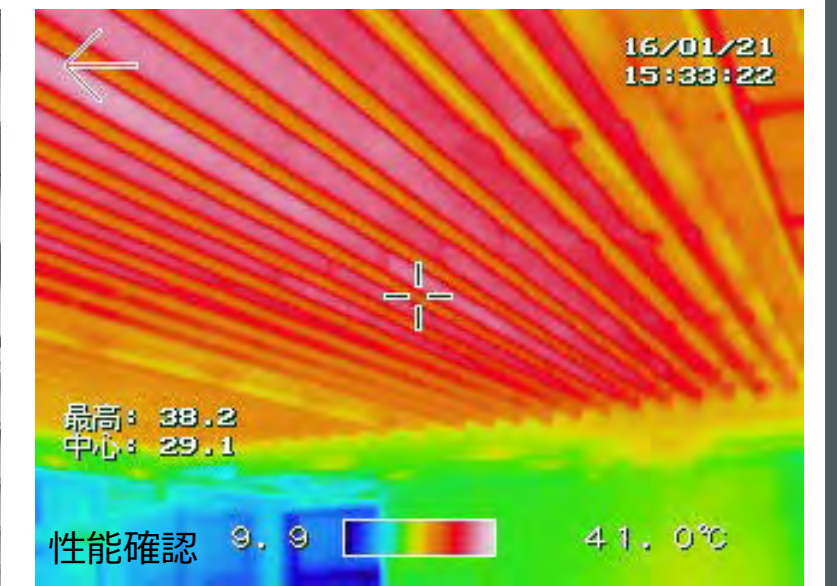


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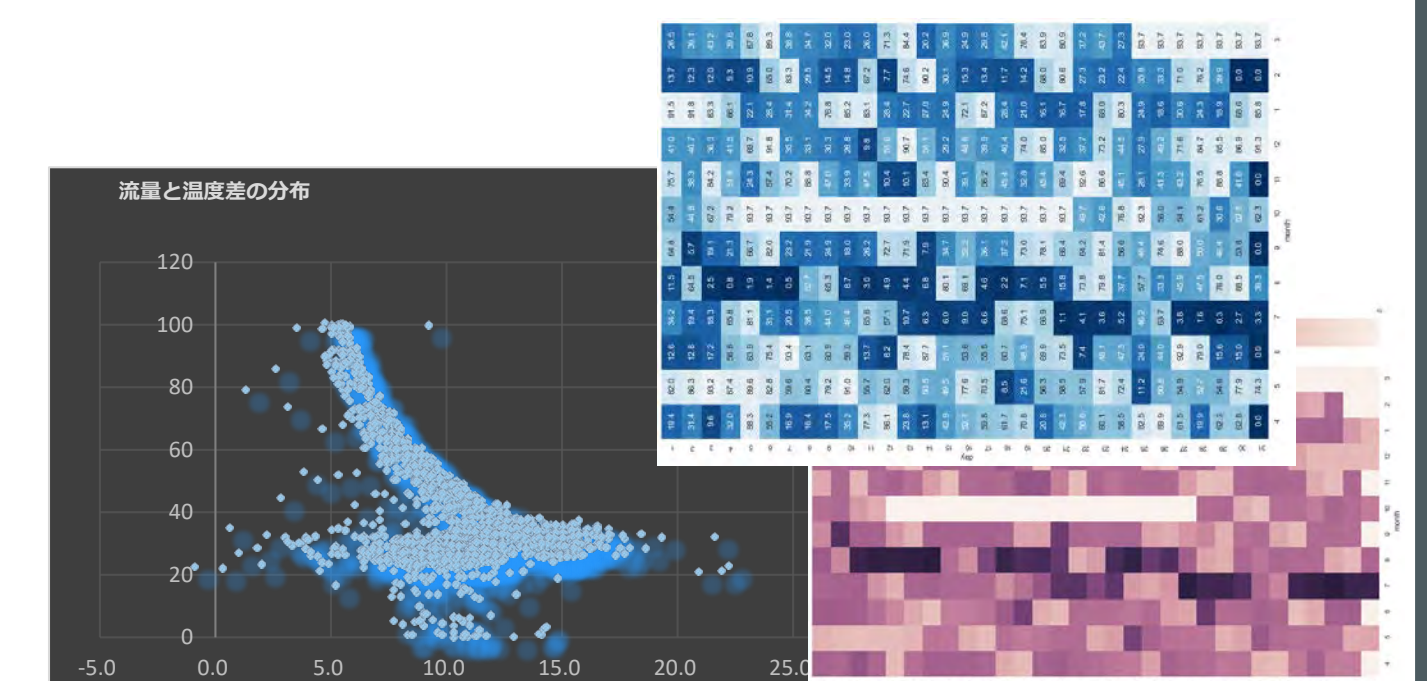
Environment and Energy Conservation store

▲ 70% energy saving

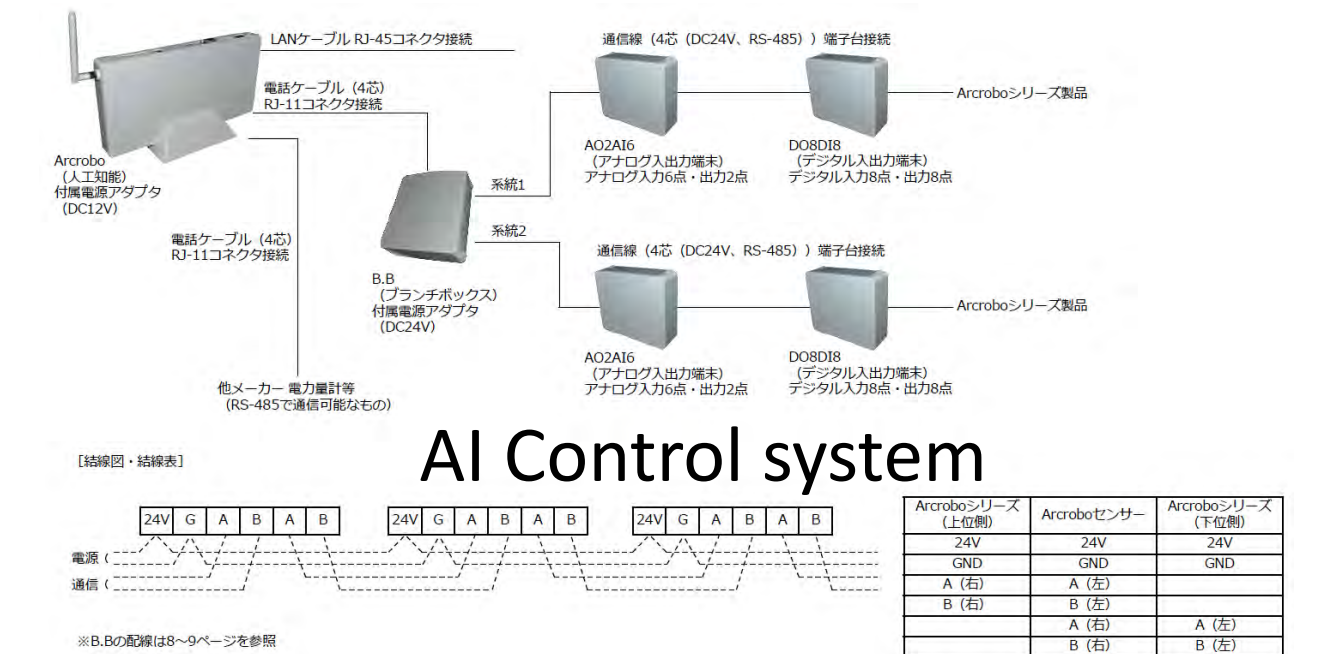


In the next-generation systems energy, we need to optimize utilization of relevant technologies (Sustainable technology, Energy creation, Natural energy, Unutilized energy, Energy interchange, and Energy Conservation.) Using information related to buildings, analyze for optimized control by machine learning 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.



Energy analysis by machine learning



AI Control system

Sensor & Control system



Sensor controller



watt-hour meters



Window thermal sensors



Boiler Thermal sensors



Outside air Thermal and Humidity sensors

Thermal insulation

Performance evaluation



Passive + Active insulation

Earthquake acceleration sensor



Earthquake acceleration sensor

