

MAGORI LAB.

[Mieruka & A.I. Building Control]

Academic-industry partnership for proactive & holistic energy demand management for construction sector, Social Cooperation Program

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

Energy Demand Management Engineering

Engineering/Architecture

Optimizing Building Energy with A.I. Control

Automatic analysis and Optimized control for Energy demand and Energy use

Our research and development proposes a new energy synergy structure. We have developed The Mieruka system and A.I. control system for building functions, mechanical and equipment, and operations. Our system can manage and optimize energy use and efficiency for many small and medium-sized buildings. The system functions in place of the energy manager.

- ◆ R&D for the intelligent sensor and controller for integrative energy optimization
- ◆ R&D for the utilization of the synthetic energy management in a building group
- ◆ R&D for Zero Energy Convenience Store (ZECS), Zero Energy Building (ZEB), and ZEB control systems

Automatic analysis and AI optimized control system

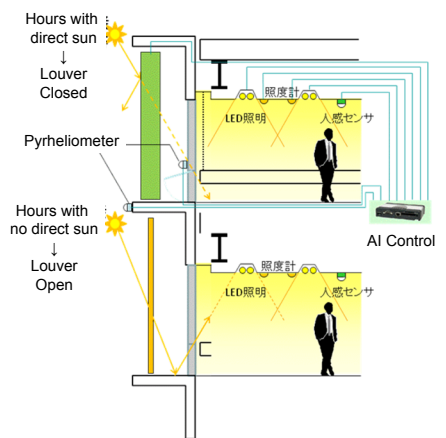
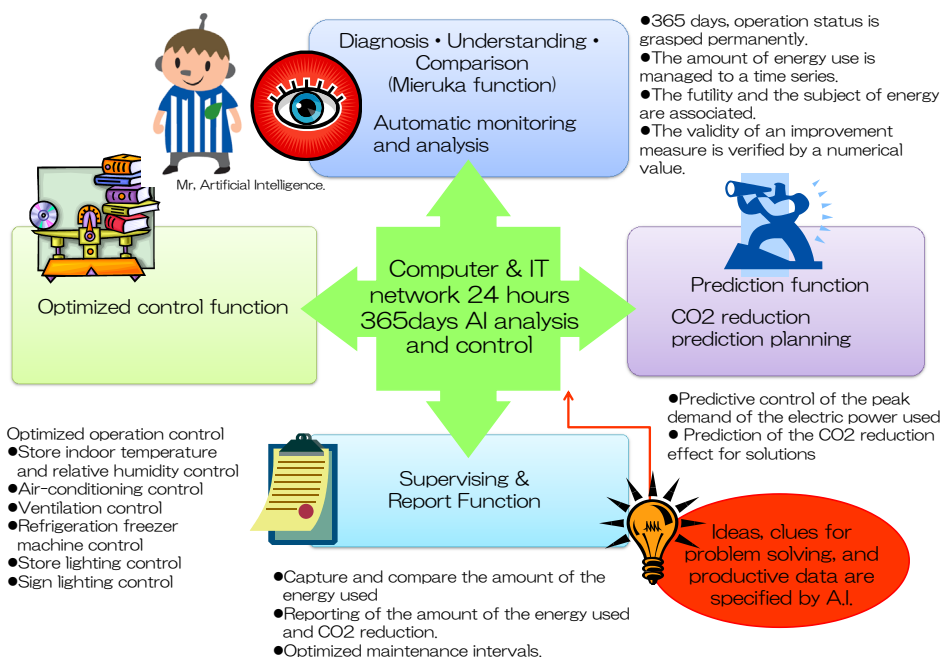


Fig.2 Komaba Center for Educational Excellence
▲ 67% energy saving

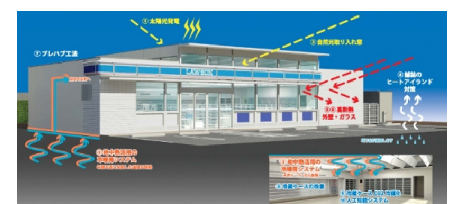


Fig.3 Environment and Energy Conservation Demonstration store
▲ 30% energy saving

Fig.1 Mieruka and A.I. control system general concept