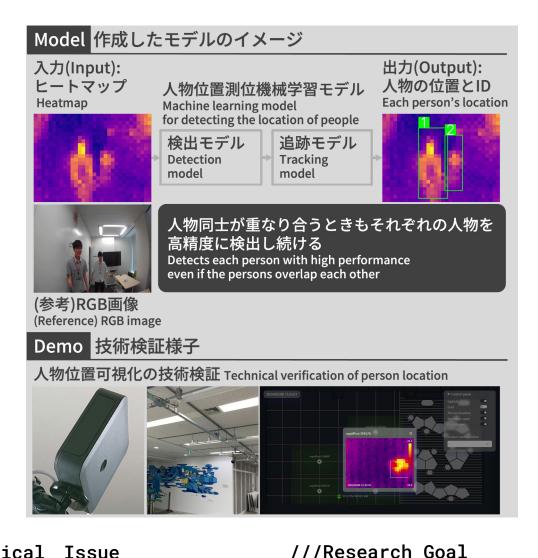


T R&D FORUM 2024

Tracking people indoors using low-resolution thermal sensor

This technology enables crime prevention and monitoring in spaces where privacy is a concern

Well-being, Human Capital Management # Customer Experience Value Creation



///Technical Issue

There are strong privacy concerns with cameras equipped with AI functions, and no technology has been established to enable high-performance person sensing in private spaces.

---Technology

Combining object detection and tracking models and applying them to low-resolution thermal sensor images enables tracking a person's location while considering privacy.

placed in the past.

---Novelty

The world's first technology that uses a low-resolution thermal sensor (24x32 pixel) to track each person with high performance even when they overlap with each other.

This technology enables monitoring

spaces where privacy is a strong concern,

where surveillance cameras could not be

---Applicable Business

Contact URL Outside Partner=Urasoe City

Security industry, housing industry, hotel industry, nursing care industry

- Monitoring and abnormality detection of family members living far away (bedridden/fallen/suspicious person detection)
- Visualization of usage of changing rooms, etc.
- Automatic control of lights and air conditioners according to the location of people We aim for field verification in FY2024 and commercial deployment in FY2025.

Exhibitors=NTT DOCOMO, Inc Related URL=<u>Lifestyle co-creation lab</u> (2024/03)/<u>Press Release</u> (2024/10)