

Making full use of AI and simulation technologies across different fields for a human-centered society

Development of a cross-disciplinary co-creation of infectious disease control support systems and services using big data and AI methods

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Summary :

In the COVID-19 pandemic, multi-disciplinary risk assessment using social-economical activities and environmental data have not been conducted sufficiently. In this research, we will develop two systems – government-supporting modeling system and incentive system intended for individual use. To achieve this, various data – individual and social activities, policy, epidemiology, medical and environmental – will be incorporated into AI/simulation technology.

Specifically, the following will be conducted:

- Conduct an epidemiological survey on respiratory infection and consider infection control scenario;
- develop a behavioral change model which incorporates infectious diseases and environmental Interaction;
- develop a model to project spatial-time risk and aggregation of infectious diseases;
- develop a spatial-time model and wellness assessment method for individuals.

