**Tadahiko Murata**

2nd Talk

Theme:
**Real-Scale Social Simulations Using Societal Synthetic Populations in Digital Twin**It is essential for researchers to consider human factors in real-scale social simulations that take into account people living and working in target communities. In order to do so, researchers need to know attributes of living and working people such as age, sex, race, living place, occupation, income and workplace. However those attributes are a kind of privacy data that are not available to researchers. To tackle with such difficulty in accessibility, data synthesis is getting attentions recently. Data synthesis is a method to synthesize data based on the statistical characteristics of collected data. The lecturer gives a talk how to synthesize the population data using statistics, and several applications of synthesized population data in real-scale social simulations including COVID-19 counter-measures.