

Session Title: Energy Productivity through IT and AI

Name: Keigo Akimoto

Position: Group Leader of Systems Analysis Group, Chief Researcher, Research Institute of Innovative Technology for the Earth (RITE)

IoT and AI will make transformational changes on the economy and society. Here, I consider the mobility area; car- and ride-sharing will expand in accordance with the progress of fully autonomous cars and other relevant new technologies. The utilization rate of cars increases greatly, which makes EVs and FCVs cost efficient despite their high capital costs, leading to low CO₂ emissions. In addition, smaller numbers of cars are needed, which decreases material demands, also leading to low CO₂ emissions. The consistent and quantitative analyses will be important in order to envisage the effects, including emission reductions, of emerging innovations.