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Architectures in the Era of Drones, Robotics and Self-driving Cars

Smart mobility technologies such as drone, air-mobility (flying-car) and autonomous-driving car are expected to support our life in the near future. These mobility systems will also change urban design; drones need drone ports at homes and offices, flying-cars fly from/to small-scale airports in communities, self-driving EVs can become rooms at homes and delivery service by robotics might not need baggage drop/delivery boxes. First of all, the current situation and national strategies regarding future mobility in Japan are to be introduced. Secondary, relationship between smart mobility and architectural design/urban design are to be shown. Finally, what kind of issues to be considered are pointed out.

CV

Tomoyuki Furutani is a professor of applied statistics and mobility research at Keio University and a director of Consortium of Co-creation of Drone Society. Obtained Dr. Eng. at the University of Tokyo in 2001. He lectured two years at University of Tokyo as a research associate, four years as a lecturer at Keio University, eight years as an associate professor at Keio and four years as a full professor. He was also a visiting researcher at University of Vienna and a visiting professor at Chulalongkorn University in 2018-2019. His research interests cover not only data science but also smart mobility like as drones and self-driving cars. He is also integrating traditional technologies and new digital technologies for social innovation. He is one of the representative scholars in Bayesian statistics and drone research in Japan.