

Evaluation of Practicality of On-Demand Bus Using Actual Taxi-Use Data through Exhaustive Simulations

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Abstract : We conducted exhaustive simulations for data assimilation and evaluation of service quality for various setting in a new shared transportation system, called SAVS. Computational social simulation is a key technology to design recent social services like SAVS as new transportation service. One open issue in SAVS was to determine the service scale through the social simulation. Using our exhaustive simulation framework, OACIS, we did data-assimilation and evaluation of effects of SAVS based on actual tax-use data at Tajimi city, Japan. Finally, we get the conditions to realize the new service in a reasonable service quality.

Keywords : on-demand bus sytem, social simulation, data assimilation, exhaustive simulation

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