


Requests for Collaboration

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Research Interests	
<ul style="list-style-type: none">● Travel Behavior Analysis● Urban Transportation Planning● Intelligent Transportation Systems, ICT applications● Universal Design	
Creative Achievements in The Application of New and Existing Science and Technology	
<p>(1) The concept of an audio AR (augmented reality) application for visually-impaired people is proposed. Field experiments are conducted to assess methods to encourage visually-impaired people to use audio guidance through courses and to advance hearing research. System requirements for visually-impaired people to enhance everyday mobility are investigated.</p> <p>(2) New LOS (level of service) measure consistent with a driver's subjective evaluation from the viewpoint of CS (customer satisfaction) is proposed. The study consists of (a) analysis of the causal relation between the level of CS and drivers' perceptions related to traffic flow conditions using individual response data obtained through in-laboratory experiments with video images, and (b) construction of practical driver satisfaction models segmented by the number of lanes of which independent variables are selected among ordinary indices of traffic flow considering results of the analysis presented above.</p>	
Research Theme That I Want to Collaborate	
<ul style="list-style-type: none">● Artificial Intelligence (AI) to create universal society● Social acceptance of automated vehicles: causal analysis on questionnaire data and traffic flow simulation	
A List of 5 Key Publications	
<ul style="list-style-type: none">• Yuki ADACHI, <u>Takashi UCHIDA</u>, Yoshiki SUGA, Yumie SAWADA: Extending the Verbal Map Navigation System for Visually-impaired People Focusing on Byway Information and NFC Interface, Proceedings of the Conference of Japan Society of Traffic Engineering (ISSN: 1884-300X), Vol.37, pp.367-372, 2017 (in Japanese).• Hiroko MATSUMOTO, <u>Takashi UCHIDA</u>, Kanami BESSYO: Method of Evaluating Dialogue Robots for Visually Impaired and Elderly People, Memoirs of the Faculty of Engineering, Osaka City University (ISSN: 0078-6659), Vol.58, pp.13-24, 2017.• Takashi SAKAI, Kiko YAMADA-KAWAI, Hirokazu MATSUMOTO, <u>Takashi UCHIDA</u>: New Measure of the Level of Service for Basic Expressway Segments Incorporating Customer Satisfaction, Procedia Social and Behavioral Sciences, Vol.16, pp.57-68, 2011.• Masaki HIRAGA, <u>Takashi UCHIDA</u>: An Empirical Analysis of Signs in Transportation Facilities from the Viewpoint of Effects on Pedestrian Behavior, KIRKASTA JA SUMEAA - CRISP AND FUZZY, Helsinki University of Technology Transportation Publication 110 (ISBN-10 951-22-8555-X), pp.303-312, 2006.• <u>Takashi UCHIDA</u>, Matti PURSULA: Japanese ITS Strategy and 3G Mobile Communication in ITS [Report and Memoranda B 2/2002], Ministry of Transport and Communications, Finland (ISBN: 951-723-632-8), (ISSN: 1457-7496), 52 pages, 2002.	