

PROGRAM

DDSS Conference



CONFERENCE CHAIR:

Harry Timmermans

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Address:

Frederiklaan 10a
5616 NH Eindhoven
Entrance: 8

Monday June 27

9:00 – 10:00 Registration and coffee/tea (Ruud van Nistelrooij -1st Floor)

10:00 Welcome
(Ronaldo -1st Floor)

10:30 – 12:30 Concurrent sessions

Session MO1.1 BIM

Room: Ronaldo

Chair: Bauke de Vries (Eindhoven University of Technology)

Wu, C. (Texas A&M University), K. Xing (Harbin Institute of Technology) and M.J. Clayton (Texas A&M University)

Smoke simulation for large buildings in CFAST. Using BIM to facilitate simulation process

Krijnen, T. (Eindhoven University of Technology) and L.A.H.M. van Berlo (Netherlands Organisation for Applied Scientific Research TNO)

Methodologies for requirement checking on building models. A technology overview

Bektas, E., L.A.H.M. van Berlo and E. Vullings (Netherlands Organisation for Applied Scientific Research TNO)

Using multi criteria analyses and BIM to evaluate design solutions of complex buildings. A case study in automated KPI checking in the early design phase

Session MO1.2 Choice models

Room: Ralf Edstrom

Chair: Gamze Dane (Eindhoven University of Technology)

Pan, X., S. Rasouli and H.J.P. Timmermans (Eindhoven University of Technology)

Modeling bounded rationality in choice behavior: Relative utility vs. random regret models

Kato, T., R. Kanamori, T. Yamamoto and T. Morikawa (Nagoya University)

Analysis of use characteristic change with parking fee change by utilizing accounting data

Jiang W., H.J.P. Timmermans (Eindhoven University of Technology), H. Li (Chongqing University) and T. Feng (Eindhoven University of Technology)

Mixed logit model of intended residential mobility in renovated historical blocks in China

Jang, S., S. Rasouli and H.J.P. Timmermans (Eindhoven University of Technology)

Bias and sources of error in discrete choice models: A critical reflection

12:30 – 13:30 Lunch (Restaurant 3rd or 4th floor)

13:30 – 15:00 Concurrent sessions

Session MO2.1 Wayfinding and route choice

Room: Ronaldo

Chair: T. Oki (Tokyo Institute of Technology)

Schrom-Feiertag, H., M. Stubenschrott, G. Regal, J. Schrammel (AIT Austrian Institute of Technology) and V. Settgest (Fraunhofer Austria / Graz University of Technology)

Using cognitive agent-based simulation for the evaluation of indoor wayfinding systems

Aksenov, P., A. Kemperman and T. Arentze (Eindhoven University of Technology)

A personalised recommender system for tourists on city trips

Charoniti, E., S. Rasouli, H.J.P. Timmermans (Eindhoven University of Technology)

Heterogeneity in choice mechanisms underlying route choice behavior under conditions of uncertainty: A behavioural mixing latent class model

Session MO2.2 Data collection and measurement

Room: Ralf Edstrom

Chair: Wen Jiang (Eindhoven University of Technology)

Maekawa, N., S. Izumi, M. Koga (SOJO University), K. Morishita (National Institute of Technology) and S. Matsubara (Kumamoto Health Science University)

A study on the city street survey questionnaire for wheelchair users' optimal routes

Racz, P., M. van Buiten, A. Doree (University of Twente)

To dig or not to dig: How to determine the number and location of test trenches

Wang, T., Q. Han and B. de Vries (Eindhoven University of Technology)

Domain knowledge extraction for industrial area redevelopment planning

15:30 – 16:00 Coffee/tea break (Ruud van Nistelrooij -1st Floor)

16:00 – 17:30 Concurrent sessions

Session MO3.1 Visualization

Room: Ronaldo

Chair: M. Moshrefzadeh (Technical University of Munich)

Janssen, R. and E. Diasr (Universiteit Amsterdam)

A pictorial approach to geodesign. A case study for the Lower Zambezi valley

Lefort, J., Y. Sutter and P. Villien (Efficacity)

A 5-metric methodology for selecting a shading system control strategy

Grigolon, A. (University of Twente), Y. Singh (Planit), M. Koeva and M. Madureira (University of Twente)

Transit-oriented development (TOD) assessment using 3D visualisation and modeling

Session MO3.2 Urban analysis

Room: Ralf Edstrom

Chair: T.T. Lo (Victoria University of Wellington)

Song, J., S. Ikaruga (Yamaguchi University) and A. Deguchi (The University of Tokyo)

Morphological change of urban spatial structures overviewed through analysis on tower construction trend in Tokyo

Inagaki, K. (Tohoku University), Y. Hara (JST Presto and Tohoku University) and M. Kuwahara (Tohoku University)

Latent structural analysis of a city center using the spatial and categorical co-occurrence of facilities

Kim, S., D. Yang and S. Rasouli (Eindhoven University of Technology)

Periodicity analysis of electric car drivers' charging behavior: Latent class hazard models

18:30 Dinner at Restaurant 1910

Address: Willemstraat 43 A, 5611 HC Eindhoven

Tuesday June 28

9:-00 – 10:30 Concurrent sessions

Session TU1.1 Planning support tools

Room: Ronaldo

Chair: K. Karashima (Toyohashi University of Technology)

Nösperger, S. (EDF), H. Joumni (CSTB), M. El-Mtiri (VEOLIA), O. Bonin (IFSTTAR – LVMT),
O. Keserue (VEOLIA), E. Blanc (SETEC), A. Langlois (VINCI CONSTRUCTION FRANCE)
Designing economic models of the energy transition at the territorial scale

Divigalpitiya, P. (Kyushu University)
Scenario analysis: Robust future growth policy analysis in western region of Sri Lanka

Li, Y. (University of East London)
Spatial analysis for equitable accessibility in social infrastructure planning

Session TU1.2 Behavioral analysis

Room: Ralf Edstrom

Chair: T. Kato (Nagoya University)

Tong, W., P. van den Berg and H.J.P. Timmermans (Eindhoven University of Technology)
Transport mode choice for the work commute after involuntary residential mobility

Oki, T. and T. Osaragi (Tokyo Institute of Technology)
Effects of rescue activities by local residents considering property damage and wide-area evacuation immediately after an earthquake

Waerden, van der P., L. Bekendam and W. Schaefer (Eindhoven University of Technology)
Understanding car drivers' preferences regarding parking attributes to support smart parking developments for enclosed business areas

10:30 – 11:00 Coffee/tea break (Ruud van Nistelrooij -1st Floor)

11:00 – 12:30 Concurrent sessions

Session TU2.1 Decision support

Room: Ronaldo

Chair: S. Nösperger (EDF)

Nishimura, S., S. Ikaruga, S. Tsuboi, T. Kobayashi and J. Song (Yamaguchi University)

Using the expert system theory in the development of support methods for a compact city plan

Lo, T.T., M.A. Schnabel and T. Moleta (Victoria University of Wellington)

Establish, exchange and engage: A support system for multiple decisions to co-produce

Champlin, C.J., T. Hartmann and G.P.M.R. Dewulf (University of Twente)

Improving the strategic use of PSS for planning support

Session TU2.2 Activity analysis

Room: Ralf Edstrom

Chair: A. Grigolon (Twente University)

Karashima, K., A. Ohgai and T. Mukudai (Toyohashi University of Technology)

A tool to explore community-based activities considering mutual assistance for earthquake disaster mitigation using multi-agent system and GIS

Han, B. and H.J.P. Timmermans (Eindhoven University of Technology)

Synchronization of home departure and arrival times in dual earner households with children: Panel regression model of time gaps

Peng, Y., T. Feng and H.J.P. Timmermans (Eindhoven University of Technology)

Assessment of outdoor comfort in public space: An extended model

12:30 – 13:30 Lunch (Restaurant 3rd or 4th floor)

13:30 – 15:00 Concurrent sessions

Session TU3.1 Compact cities

Room: Ronaldo

Chair: J. Song (Yamaguchi University)

Neema, M.N., K. Karashima, A. Junichirou and A. Ohgai (Toyohashi University of Technology)
Correlation between GA-based optimization of green spaces and air pollution reduction: A Case Study on Dhaka City

Tsuboi, S., S. Ikaruga, T. Kobayashi and S. Nishimura (Yamaguchi University)
The effectiveness of the compact city plan of local government after abolishing the Area Division System

Lyu, X., Q. Han and B. de Vries (Eindhoven University of Technology)
Towards a simulation of mixed land use impacts on transport: Procedural urban modelling of urban layout

Session TU3.2 Models of movement

Room: Ralf Edstrom

Chair: H. Schrom-Feiertag (AIT Austrian Institute of Technology)

Koga, M., S. Izumi, K. Morishita and S. Matsubara (SOJO University)
Development of an extended model for wheelchair navigation system

Zhang, Y., M. Brussel, F. van den Bosch, A. Grigolon and M. van Maarseveen (University of Twente)
A GIS based bicycle level of service route model

Zheng, Z., S. Rasouli and H.J.P. Timmermans (Eindhoven University of Technology)
Modeling taxi drivers passenger-finding behavior under uncertainty

15:30 – 16:00 Coffee/tea break (Ruud van Nistelrooij -1st Floor)

16:00 – 17:30 Plenary session

TU4.1 Big data and smart cities

Room: Ronaldo

Chair: D. Yang (Eindhoven University of Technology)

Hung, P.H. (Osaka University)

Development of a participatory and cyclic decision-making system for bus transportation planning based on a big data analysis on travel e-ticket information

Moshrefzadeh, M. and T.H. Kolbe (Technical University of Munich)

Smart data infrastructure for smart and sustainable cities

Lonsing, W.

Empathic lighting fast responding personal lighting based on sensors and LEDs

17:30 – 18:00 Visit PSV stadium

Subscribe at registration

18:00 Dinner PSV
