Research output

Route choice decisions of e-bike users: analysis of GPS tracking data in the Netherlands

A multi-agent assisted approach for spatial Group Decision Support Systems: a case study of disaster management practice

An investigation of the operation of corporate real estate decision-making

Perceived benefits of science park attributes among park tenants in the Netherlands

Towards a segmentation of science parks: A typology study on science parks in Europe

Is the much discussed agility of Corporate Real Estate visible in practice? An empirical study of the relationship between business metrics and surplus property

Adjustment of corporate real estate during a period of significant business change

Analysing knowledge sharing behaviour in business centres: A mixed multinomial logit model

Analysing user preferences for co-working space characteristics

Employees’ preferences for services and facilities offered in serviced offices

Face-to-face interactions of university staff and students in an academic building
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The influence of the physical work environment of business centres on social networking and knowledge sharing in the Netherlands

Tourists' city trip activity program planning: a personalized stated choice experiment

Workplace needs and their support; are millennials different from other generations?

Location type choice for face-to-face interactions in business centers

Linking firm characteristics, science park attributes and perceived benefits: empirical approach and results

A time-use model for the automated vehicle-era

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Is the much discussed agility of Corporate Real estate visible in practice? an empirical study of the relationship between business metrics & surplus property

Zelfbouw van woningen verhoogt sociale cohesie bewoners

Firms' perceived benefits of shared facilities on Dutch science parks: empirical evidence

Estimating a latent-class user model for travel recommender systems

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Het belang van secundaire objectkenmerken woningen bij de bepaling van de WOZ-waarde: vooronderzoek WOZ Woningen REN
A new approach to measure preferences of users in built environments: integrating cognitive mapping and utility models

Cognitive learning approach for travel demand modeling: estimation results

Effects of land-use transport scenarios on travel patterns: a multi-state supernetwork application

Employee's preferences for services and facilities offered in serviced offices: results of an empirical study

Lectori Salutem: Indoor navigatiesystemen: recente ontwikkelingen en vooruitzicht

Lectori salutem: Nieuwe PhD-projecten van start bij de REMD groep

Predicting perceived neighbourhood social cohesion in Collective Private Commissioning projects in the Netherlands

Real estate resourcing on science parks: Exploratory overview of European science parks

Social networks, social satisfaction and place attachment in the neighborhood

Solar bike acceptance: mode choice behavior

Solar bikes: user acceptance: understanding user experience, preference and acceptance

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A personalised recommender system for tourists on city trips

A personalised recommender system for tourists on city trips: concepts and implementation

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Implementation and reporting of sustainability measures in corporate real estate management: a content analysis of CSR reports

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Modeling agglomeration forces in urban dynamics: a multi-agent system approach

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Modeling perception updating of travel times of departure time choice under ITS

Modelling agglomeration forces in urban dynamics: a multi-agent system approach

Modelling perception updating of travel times in the context of departure time choice under ITS

Models of learning and adaptation behaviour in urban transport settings
Predicting Multi-Faceted Activity-Travel Adjustment Strategies in Response to Possible Congestion Pricing Scenarios Using an Internet-Based Stated Adaptation Experiment

Reinduction of Albatross decision rules with pooled activity-travel data and an extended set of land use and cost-related condition states

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Transport stated choice responses: effects of task complexity, presentation format and literacy

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Modeling individual's activity-travel rescheduling heuristics: theory and numerical experiments

Modeling the formation of activity agendas using reactive agents
Stationary and time-varying patterns in activity diary panel data: explorative analysis with association rules

The Impact of Irrelevant Attributes on the Accuracy of Classifier Systems in Generating Activity Schedules

The Spatial Transferability of the Albatross Model System: Empirical Evidence from Two Case Studies

Towards a Local Planning Support System: Introducing the Masque Framework

A Micro-simulation Model of Individuals Activity Travel Behaviour in Urban Environments

A micro-simulation model of individuals’ activity travel behavior in urban environments.

A model for Generating Activity Skeletons in the Context of the Albatross System

A position-sensitive sequence-alignment method illustrated for space-time activity-diary data

Albatross: Model and Experience

Assessing urban context-induced change in individual activity travel patterns: case study of new railway station

Association rules in identification of spatial-temporal patterns in multiday activity diary data

Coevolutionary approach to extracting and predicting linked sets of complex decision rules from activity diary data

Combining Data Mining and Logit Techniques for Discrete Choice Modeling With Large Spatial Data Sets

Creating Synthetic Populations: Approach and Results

Data Needs and Sources for Albatross 1.0 Applications
Deriving performance indicators from models of multipurpose shopping behaviour

Deriving rules from activity diary data: a learning algorithm and results of computer experiments

Generating Synthetic Populations

Impact of urban setting on activity-travel patterns: comparison of performance indicators with quasi-experimental design data

Inductive learning approach to evolutionary decision processes in activity-scheduling behavior: theory and numerical experiments

Interactive Agency Choices in Land Use Transport Dynamics: The Case of the Residential Housing

Inter-agent Interactions in the Amadeus Long Term Submodule

Introducing Multi-Agents in an Integrated GIS/VR System for Supporting Urban Planning and Design Decisions

Modeling effects of anticipated time pressure on execution of activity programs

Modelling the Formation of Activity Agendas Using Reactive Agents

Multidimensional sequence alignment methods for activity-travel pattern analysis: a comparison of dynamic programming and genetic algorithms

New activity diary format: design and limited empirical evidence

Pattern recognition in complex activity travel patterns: comparison of Euclidean distance, signal-processing theoretical, and multidimensional sequence alignment methods

Questionnaire Design and Findings
A spatial decision support system for retail plan generation and impact assessment

Activity Selection, Travel Party and Duration Decisions

Activity Start Time and Trip-Chaining Decisions

Activity Transport Mode and Location Choice

ALBATROSS
Arentze, T. A., 2000

ALBATROSS: a learning based transportation oriented simulation system

Albatross: multi-agent rule based model of activity pattern decisions

Analyzing Space-Time Behavior: New Approaches to Old Problems

Conceptual Framework

Conclusions and discussion

DANA (Dissimilarity Analysis of Activity Patterns): A Tool for Multidimensional Activity Pattern Comparison and Pattern Classification in Transportation Research

Data about the space-time environment

Data Needs, Data Collection and Data Quality Requirements of Activity-Based Transport Demand Models
Deriving decision rules from activity diaries

Determinants of attrition rates in two-wave, two-day household activity diary: probit analysis

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Identifying decision structures underlying activity patterns: an exploration of data mining algorithms

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Modeling Short-Term Adjustment Processes of Individual Activity Schedules in Time and Space

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Observed Activity Patterns

Relative Predictive Ability

Representing and Inducing Decision Rules

Representing and Predicting Tourist Choice Behaviour: A Rule-Based vs. a Utility-Based Approach

Rule-Based versus Utility-Maximizing Models of Activity-Travel Patterns

Sequence alignment method
Sequence Alignments Methods

SYLVIA

Synthesizing Populations Using Micro-Simulation

The Activity Diary

The ALBATROSS System

The Long-Term Effects of Multi-Modal Transportation: the Resident Choice Behavior of Households

Transport Mode Decisions Related to the Primary work Activity

Using ALBATROSS for Impact Analysis: Some Illustrations

Using decision tree induction systems for modeling space-time behavior

A qualitative approach to modelling space-time behaviour of individuals in urban environments: the case of trip chaining

A spatial decision support system for the planning of retail and service facilities

An Analysis of Context and Constraints-Dependent Shopping Location Decisions Using Qualitative Decision Principles
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Deriving Decision Rules from Activity Dairies
A generic spatial decision-support system for planning retail facilities

A multi-objective model for developing retail location strategies in a DSS environment

A Multi-purpose Destination Choice Model For Shopping Trips: Some Empirical Results

Constructing and consulting fuzzy decision tables

Economische effecten van parkeermaatregelen : winkelcentrum- en verkeerswijzekeuze van consumenten in Noord-Brabant

Estimating A Rule-Based System Of Activity Scheduling: A Learning Algorithm And Results Of Computer Experiments

Measuring the Similarity of Activity Patterns

An efficient search strategy for site-selection decisions in an expert-system

Design of a view-based DSS for location planning

Integrating GIS into the Planning Process

Integrating GIS and spatial modeling : a generic DSS for retail planning

The development of a knowledge-based decision support system for retail and service planning

The development of a knowledge-based spatial decision support system for retail and service planning
The integration of expert knowledge in decision support systems for facility location planning

Geographical information systems and the measurement of accessibility in the context of multipurpose travel: a new approach

Multistop-based measurements of accessibility in a GIS environment

A model of multi-purpose shopping trip behavior

Geographical information systems and the evaluation of the location of facilities

Projects

SPARK Impuls (Science park facilities and the role of ecosystem formation)
1/07/16 → 31/12/19

Activities

Stakeholders-oriented spatial decision support system
Theo Arentze (Examiner)
17 May 2019

A sustainable industrial site redevelopment planning support system
Theo Arentze (Examiner)
2 Apr 2019

Efficient storage and retrieval of detailed building models: multi-disciplinary and long-term use of geometric and semantic construction information
Theo Arentze (Examiner)
2 Apr 2019

The users' value of business center concepts for knowledge sharing and networking behavior within and between organizations
Theo Arentze (Examiner)
26 Mar 2019

A tool to analyze urban development
Theo Arentze (Speaker)
2019 → …

Simulating Annual Long-Distance Travel Demand
Theo Arentze (Examiner)
2019