Research output

Coping strategies and perceived productivity in open-plan offices with noise problems

Lifting the Lid on the Black Box of Corporate Real Estate Decision Making; dealing with surplus property

Perceptual measures of science parks: Tenant firms’ associations between science park attributes and benefits

The use of virtual environments in a choice experiment to measure walkability on street block level

Best living concepts for elderly homeowners: combining a stated choice experiment with architectural design

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

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

Empirical analysis of walkability using data from the Netherlands

Travel preferences of multimodal transport systems in emerging markets: the case of Beijing

Impact of activity-based workplaces on burnout and engagement dimensions

Analysing knowledge sharing behaviour in business centres: a mixed multinomial logit model
The impact of health vs. non-health goals on individuals' lifestyle program choices: a discrete choice experiment approach

How does walkability change behavior? a comparison between different age groups in the Netherlands

A comparative study of contact frequencies among social network members in five countries

Estimating the HARA land-use model for housing planning based on hedonic price analysis

Identifying the criteria for corporate real estate decisions through the laddering technique: an analysis of care organisations in The Netherlands

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

The association between office use and the burnout-engagement continuum in activity-based offices

Verduurzaming van de huurwoningen: rol van motivatie en communicatie

Location choices of face-to-face interactions in academic buildings: an experience sampling approach

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

Analysing user preferences for co-working space characteristics

The influence of the physical work environment of business centres on social networking and knowledge sharing 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

Employees' preferences for services and facilities offered in serviced offices

The influence of personal- and business centre characteristics on knowledge sharing types in business centres

Happy senior living 65+ best living concepts

BTIC – programma: integrale energietransitie bestaande bouw: programma document BTIC – energie-transitie bestaande bouw

Construction and validation of an index of walkability: a data-driven approach

Corporate real estate management activities and skills

How office workers cope with distraction by sounds in the open plan office

Review van de methode die Invvisor voorstelt voor verdiscontering van onzekerheid in schattingen van waardeverlies bij de bepaling van compensatie-bedragen: rapport in opdracht van de NAM

Reviews van het Duran-Elhorst model en de extrapolatie method van Inviro voor de schatting van waardevermindering van woningen door aardbevingsrisico: rapport in opdracht van de NAM

The location choice of technology-based firms: a stated choice experiment of science park alternatives

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

Workplace needs and their support: are millennials different from other generations?
Linking firm characteristics, science park attributes and perceived benefits: empirical approach and results

A time-use model for the automated vehicle-era

Dynamics in social activity-travel patterns: analyzing the role of life events and path dependence in face-to-face and ICT-mediated social interactions

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

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

Estimating a latent-class user model for travel recommender systems

Polarisatie stad en sociale huursector Eindhoven: vooronderzoek in opdracht van Woonbedrijf

Het belang van secundaire objectkenmerken woningen bij de bepaling van de WOZ-waarde: vooronderzoek WOZ Woningen REN

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A learning-based transportation oriented simulation system

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A spatial decision support system for provision and monitoring of urban green space

A theoretical framework for modeling activity-travel scheduling decisions in non-stationary environments under conditions of uncertainty and learning

Activity-travel scheduling and rescheduling decision processes : empirical estimation of Aurora model

Capturing interdependences in tour mode and activity choice: a co-evolutionary logit modelling approach

Capturing the role of awareness and information search processes on Choice Set Formation in Models of Activity-Travel Behavior

Improving performance of multiagent rule-based model for activity pattern decisions with Bayesian networks

Modeling the dynamic use and impact of travel information on activity-travel: (re)scheduling decisions

Modelling perception updating of travel times in the context of departure time choice under ITS
Multi-agent models of urban land development: theory and numerical simulation of retail location decisions

Multi-agents generating alternative plans in local land-use planning: specifying their reasoning and interaction

Multimodal public transport: an analysis of travel time elements and the interconnectivity ratio

Multistate supernetwork approach to modelling multi-activity, multimodal trip chains

Predicting multi-faceted activity-travel adjustment strategies in response to possible congestion pricing scenarios using an Internet-based stated adaptation experiment

Towards a generic multi-agent engine for the simulation of spatial behavioural processes: MASQUE/SwarmCity

Using Bayesian decision networks for knowledge representation under conditions of uncertainty in multi-agent land use simulation models

A multiagent model of negotiation processes between multiple actors in urban developments: a framework for and results of numerical experiments

A theory and simulation model of activity-travel rescheduling behavior

Assessing the effects of constrained and unconstrained policy scenarios on activity-travel patterns using a learning-based simulation system

Capturing interdependencies in tour mode and activity choice: a co-evolutionary logit modelling approach

Effects of task complexity and presentation format on the validity of stated choice responses for respondents with limited literacy skills

Estimating non-linear dynamics of continuous time in the context of an activity schedule model
Estimating non-linear utility functions of time use in the context of activity schedule adaptation model

Generating alternative plans in a planning support system using multi-agent technology

Learning and adaptation behaviour: empirical evidence and modelling issues

Measuring impacts of condition variables in rule-based models of space-time choice behavior: method and empirical illustration

Measuring the goodness-of-fit of decision tree-based models of discrete and continuous time activity-travel choice: methods and empirical illustration

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

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
Representing mental maps and cognitive learning in micro-simulation models of activity-travel choice dynamics

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Variation of activity patterns with features of the spatial context

Activity pattern similarity : a multidimensional sequence alignment method

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Analysing space-time behaviour : new approaches to old problems

Applicability of stated preference for mode choice studies among less literate commuters

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

Modeling the formation of activity agendas using reactive agents

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The impact of Irrelevant Attributes on the Accuracy of Classifier Systems in Generating Activity Schedules
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Creating Synthetic Populations: Approach and Results

Data Needs and Sources for Albatross 1.0 Applications

Deriving performance indicators from models of multipurpose shopping behaviour

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Generating Synthetic Populations

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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

Representing and predicting tourist choice behavior: a rule-based vs. a utility-based approach
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Representing and predicting tourist choice behaviour: rule-based vs. utility-based approach
**Representing and Predicting Tourist Choice Behaviour: A Rule-Based vs. a Utility-Based Approach**

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**Spatial Variability in Response Rates and Data Quality of a Designated Days Leave Behind-Full Activity Diary**

**The Amadeus Program: Scope and Conceptual Development**

**The long-term Effects of Multi-modal Transportation Networks: The residential Choice Behavior of Households**

**The Spatial Transferability of the Albatross Model System**

**Towards A Theory and Model of Activity-Travel Rescheduling Behavior**

**Understanding activity scheduling and rescheduling behaviour: theory and numerical illustration**

**Urban Form Network Type and Mode Choice for Frequently Conducted Activities: A multi-level analysis**

**A Decision Support System for Land-Use Selection Decisions Using a Combined AHP and KBS Approach**

**A knowledge-based system for developing retail location strategies**

**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

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

Modeling learning and evolutionary adaptation processes in activity settings: theory and numerical simulations

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

Modelling Activity-Travel Patterns

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 Dairy

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

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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

Deriving Decision Rules from Activity Dairies


System for logical verification and inference of activity (SYLVIA) diaries
The development of ALBATROSS: some key issues

Training for underground environments

Using Models of Consumer Spatial Shopping Behavior for Developing Retail Networks

A Multipurpose Trip Model to Assess Retail Agglomeration Effects

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Experiences with developing ALBATROSS: a learning-based transportation oriented simulation system

Extending spatial DSS with spatial choice models of multipurpose shopping trip behaviour

Investigating consumers' tendency to combine multiple shopping purposes and destinations

Location planner: a DSS for the location planning of retail and service facilities

Using models of consumer spatial shopping behavior for developing retail networks

A generic spatial decision-support system for planning retail facilities

A multi-objective model for developing retail location strategies in a DSS environment
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A Multipurpose Destination Choice Model For Shopping Trips: Some Empirical Results

Constructing and consulting fuzzy decision tables

Economische effecten van parkeermaatregelen : winkelcentrum- en vervoerswijzekeuze 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)

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 → …

Computers, Environment and Urban Systems (Journal)
Theo A. Arentze (Editorial board member)
2019 → …

Expert review of models for estimating the decline of house property value in earth quake area for the NAM (Dutch national oil company)
Theo A. Arentze (Advisor)
2019 → …

Modelling individuals' mental models and goal setting behaviour in complex decision problems
Theo A. Arentze (Speaker)
2019 → …
Simulating Annual Long-Distance Travel Demand
Theo Arentze (Examiner)
2019

Social Networking (Journal)
Theo A. Arentze (Editorial board member)
2019 → …

Transportation (Journal)
Theo A. Arentze (Editorial board member)
2019 → …

Transportation Research Board (TRB) (External organisation)
Theo A. Arentze (Chair)
2019 → …

Transportation Research. Part D: Transport and Environment (Journal)
Theo A. Arentze (Peer reviewer)
2019 → …

Transportmetrica B: Transport Dynamics (Journal)
Theo A. Arentze (Editorial board member)
2019 → …

Travel Behaviour and Society (Journal)
Theo A. Arentze (Editorial board member)
2019 → …

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Theo A. Arentze (Chair)
2019 → …

Complexity (Journal)
Theo A. Arentze (Peer reviewer)
2018 → …

Journal of Corporate Real Estate (Journal)
Theo A. Arentze (Peer reviewer)
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Theo A. Arentze (Peer reviewer)
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Transportation Research. Part B: Methodological (Journal)
Theo A. Arentze (Peer reviewer)
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Journal of Computational Science (Journal)
Theo A. Arentze (Peer reviewer)
2017 → …
Travel Behaviour and Society (Journal)
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Journal of Transportation Technologies (Journal)
Theo A. Arentze (Editorial board member)
2012 → ...

Presentation at the Department of Civil Engineering, University of Pretoria, Pretoria, South Africa
Theo Arentze (Speaker)
29 Nov 2000