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201100008

Transport Modeling

Course info

Course module	201100008	Starting block	1B
Credits (ECTS)	7.5	Application procedure	You apply via OSIRIS Student
Course type	Course	Registration using OSIRIS	Yes
Language of instruction	English	Number of insufficient tests	-
Contact person	dr. L.C. La Paix Puello		
E-mail	l.c.lapaixpuello@utwente.nl		
Lecturer(s)			
Lecturer	dr. L.C. La Paix Puello		
Lecturer	dr. T. Thomas		
Lecturer	ing. K.M. van Zuilekom		

Learning goals

Learning objectives:

At the end of this course the students will be able to:

Objective	How (lectures)	Who (lecturers)	Evaluated in
1. Knowledge of fundamental methodology, e.g. the foundations of individual choice models and random utility theory	Lecture 1 and 2	Lissy La Paix	Assignment 1 and 3
2. Design, conduct and analyze data collection methods: e.g. stated and revealed preference, to present individuals' behavior.	Lecture 3 Workshop 1	Lissy La Paix	Assignment 2
3. Assess and discuss the quality of a journal paper in the field of choice behaviour.	Paper discussion	Kasper van Zuilekom	Assignment 1
4. Identify and assess different model structures according to the situation of choice behavior analyzed (mode, choice, route, services, market, etc.)	Lecture 4-7, guest lecture	Lissy La Paix/ Tom Thomas	Assignment 3
5. Develop discrete choice models, and forecasting techniques to measure behavior in general.	Lecture 7, Workshops 2-4	Lissy La Paix	Assignment 3

Required materials

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Recommended materials

Book
Ortuzar, J. D., and Willumsen, L. G. (2011). Modeling transport. Chichester, UK.

Book
Train, K. 2009. Discrete Choice Methods with Simulation

Course material
Paper/tutorial: Bierlaire, M., and Feterison, M. (2009). Estimation of discrete choice models: extending BIOGEME. Paper presented at the 9th Swiss Transport Research Conference. http://www.strc.ch/conferences/2009/Bierlaire_3.pdf

Software
Biogeme <http://biogeme.epfl.ch/>

Websites
Elsevier Guidelines on Blackboard

Instructional modes

Assignment (Required)

Lecture (Required)

Tests

Test

Content

Outline:

- Mathematical modelling of individual behavior, travel and market choices
- Stated / revealed preference surveys
- Discrete choice modeling theory and workshops

Assumed previous knowledge

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PARTICIPATING STUDY

M-CEM

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