

# CURRICULUM VITAE FOR PROFESSOR STEPHANE HESS

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May 2017



*Date of Birth: 14 December 1978*

## CURRENT ACADEMIC POSITIONS

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- 10/2012 – present **Professor of Choice Modelling**  
Institute for Transport Studies, University of Leeds
- 05/2014 – present **Director of the Choice Modelling Centre**  
University of Leeds
- 05/2011 – present **Honorary Professor in Choice Modelling**  
Institute of Transport and Logistics Studies, University of Sydney

## NON-ACADEMIC POSITIONS

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- 05/2014 – present **Director**  
RSG, [www.rsginc.com](http://www.rsginc.com)

## PREVIOUS POSITIONS

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- 04/2014 – 04/2017 **Affiliated Professor in Demand Analysis**  
KTH Royal Institute of Technology in Stockholm
- 07/2010 – 01/2014 **External affiliate**  
Centre for the Study of Choice, University of Technology Sydney
- 10/2011 – 10/2013 **Research Group Leader for Economics & Discrete Choice**  
Institute for Transport Studies, University of Leeds
- 03/2010 – 09/2012 **Reader in Choice Modelling**  
Institute for Transport Studies, University of Leeds
- 03/2010 – 10/2011 **Research Group Leader for Transport Modelling**  
Institute for Transport Studies, University of Leeds
- 10/2009 – 02/2010 **Research Group Leader for Economics & Behavioural Modelling**  
Institute for Transport Studies, University of Leeds
- 09/2008 – 09/2010 **Leverhulme Early Career Fellow**  
Institute for Transport Studies, University of Leeds
- 05/2008 – 02/2010 **Principal Research Fellow**  
Institute for Transport Studies, University of Leeds
- 12/2006 – 12/2007 **Research Fellow**  
Centre for Transport Studies, Imperial College London
- 10/2006 – 11/2006 **Visiting Scholar**  
Civil and Environmental Engineering, Massachusetts Institute of Technology
- 02/2006 – 05/2011 **Visiting Research Scholar**  
Institute of Transport and Logistics Studies, University of Sydney
- 01/2006 – 12/2007 **Senior Researcher**  
Institute for Traffic Planning and Transport Systems, ETH Zurich
- 10/2005 – 12/2005 **Research Assistant**  
Institute for Traffic Planning and Transport Systems, ETH Zurich

## EDUCATION

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- September 2005 **PhD**, “Advanced discrete choice models with applications to transport demand”, Imperial College London, Centre for Transport Studies
- July 2002 **MPhil** in Statistical Science, University of Cambridge, Queens’ College & Statistical Laboratory
- July 2001 **BSc** in Business Mathematics and Computing Science (first class), Manchester Metropolitan University, Department of Science and Engineering

## AWARDS, PRIZES & FELLOWSHIPS

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- April 2017 **Award for the most innovative application of choice modelling, named in honour of Andrew Daly** (Marek Giergiczny and Stephane Hess, “Using advanced choice models to study animal behaviour”), 5<sup>th</sup> International Choice Modelling Conference, Cape Town
- January 2014 **Outstanding Young Member of the Transportation Research Board (TRB)** For exceptional achievements in transportation research, policy, or practice and service to TRB, Transportation Research Board of North America
- July 2013 **Commendation for outstanding paper published in Environmental and Resource Economics** (Stephane Hess and Nesha Beharry-Borg, “Accounting for Latent Attitudes in Willingness-to-Pay Studies: The Case of Coastal Water Quality Improvements in Tobago”, *Environmental and Resource Economics*, Volume 52, Issue 1, pp 109-131, May 2012)
- October 2010 **Fred Burggraf Award** for excellence in transportation research by researchers 35 years of age or younger (with James Fox), Transportation Research Board
- October 2008 **Leverhulme Early Career Fellowship**, Leverhulme Trust
- August 2006 **Eric Pas prize** for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research
- October 2004 **Neil Mansfield award** for the best paper by a sole author under the age of 35, European Transport Conference, Strasbourg
- August 2004 **EPAINOS award** for the second-best paper in Regional Science by a young researcher, 44<sup>th</sup> Annual European Regional Science Conference, Porto
- June 2001 **Peter Haworth prize**, Manchester Metropolitan University, Highest Marks in Honours Scheme

## AWARDS TO STUDENTS

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- May 2017 **Chiara Calastri** Leeds University Union partnership award for the best postgraduate teaching by a PhD student in the University of Leeds
- April 2017 **Thomas Hancock: Best PhD paper** “Decision field theory: improvements to current methodology and contrasts with standard choice modelling techniques”, 5<sup>th</sup> International Choice Modelling Conference, Cape Town
- October 2014 **Jeff Tjong: Neil Mansfield award** for the best paper by a sole author under the age of 35, European Transport Conference, Frankfurt
- September 2013 **Jeff Tjong: Ove Arup Transport Studies prize** for the best transport dissertation at the Institute for Transport Studies, University of Leeds
- December 2011 **Qian Fu: First runner-up prize** of the Hong Kong Society for Transportation Studies Outstanding Student Paper Award
- September 2011 **Manuel Ojeda Cabral: Ove Arup Transport Studies prize** for the best transport dissertation at the Institute for Transport Studies, University of Leeds
- October 2011 **James Fox: Neil Mansfield award** for the best paper by a sole author under the age of 35, European Transport Conference, Glasgow
- October 2010 **James Fox: Fred Burggraf Award** for excellence in transportation research by researchers 35 years of age or younger, Transportation Research Board

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## AFFILIATIONS AND MEMBERSHIPS

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### *Scientific committees*

- 09/2015 – 06/2016 Member of the Scientific Committee for the 9<sup>th</sup> Triennial Symposium on Transportation Analysis (TRISTAN), Aruba, June 2016
- 01/2015 – 10/2015 Member of the scientific committee of URBE - URban freight and BEhavior change, Rome, October 2015
- 07/2014 – present Member of the scientific committee of the 18th EWGT (Euro Working Group in Transportation), Delft, July 2015
- 11/2012 – 06/2013 Member of the Scientific Committee for the 8<sup>th</sup> Triennial Symposium on Transportation Analysis (TRISTAN), San Pedro de Atacama, Chile, June 2013
- 04/2012 – present Member of the *Transportation Demand Forecasting* committee, TRB
- 12/2011 – 07/2012 Member of the Scientific Committee of the 13<sup>th</sup> International Association of Travel Behaviour Research (IATBR) conference, Toronto, July 2012
- 11/2010 – 07/2013 Member of the Scientific Committee of the World Conference on Transport Research Society (WCTRS)
- 10/2010 – 10/2012 Chair of the *Methodological Innovations* committee, European Transport Conference (ETC)
- 03/2009 – 06/2010 Member of the Scientific Committee for the 7<sup>th</sup> Triennial Symposium on Transportation Analysis (TRISTAN), Tromsø, Norway June 2010
- 01/2009 – 07/2013 Founding chair of the WCTR special interest group on Travel Behaviour
- 10/2008 – 10/2010 Chair of the *Innovative Methods in Transport Analysis, Planning and Appraisal* committee, European Transport Conference (ETC)
- 04/2008 – 01/2017 Member of the *Travel Behaviour and Values* committee, TRB
- 07/2007 – present Member of the *Stated Response* subcommittee, TRB
- 04/2004 – 04/2007 Member of the *Aviation Systems Planning* committee, TRB
- 01/2004 – 10/2008 Member of the *Innovative Methods in Transport Analysis, Planning and Appraisal* committee, European Transport Conference (ETC)

### *Societies and associations*

- 01/2010 – 07/2015 Elected member of the Board of the International Association for Travel Behaviour Research (IATBR)
- 04/2009 – present Founding chair of the International Choice Modelling Conference series
- 10/2007 – 12/2010 Elected member of the Council of the Association for European Transport (AET)
- 02/2004 – 10/2008 Fellow of the Royal Statistical Society
- 10/2002 – present Affiliate of the Transportation Research Board (TRB)

## JOURNAL RESPONSIBILITIES

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- 06/2007 – present Editor-in-chief (founding) of the *Journal of Choice Modelling*
- 01/2013 – present Associate Editor of *Transportation Research Part E*
- 07/2010 – present Member of the Editorial Advisory Board (EAB) of *Transportation*
- 04/2007 – present Member of the EAB of *Transportation Research Part B*

## CONFERENCE ORGANISATION

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- April 2017 Co-chair: fifth International Choice Modelling Conference, Cape Town
- July 2015 Chair: 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor
- July 2011 Chair: second International Choice Modelling Conference, Oulton Hall, Leeds
- March 2009 Organiser: Inaugural International Choice Modelling Conference, Harrogate

## **SPECIAL SESSION ORGANISATION AT INTERNATIONAL CONFERENCES**

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May 2015	Workshop organiser (with Caspar Chorus) on “Behavioural Choice Modelling: Much Ado About Nothing?”, 4 <sup>th</sup> International Choice Modelling Conference, Austin, Texas
July 2013	Session track organiser (STO) for travel behaviour stream, 13 <sup>th</sup> World Conference on Transport Research, Rio de Janeiro
July 2010	Session track organiser (STO) for travel behaviour stream, 12 <sup>th</sup> World Conference on Transport Research, Lisbon
October 2006	Organiser of “The Rules of the Game”, Transport modelling workshop, European Transport Conference, Strasbourg
October 2005	Organiser of “State of the art and the state of practice in transport modelling”, Transport modelling workshop, European Transport Conference, Strasbourg
August 2005	Organiser of special stream of sessions on “Choice analysis”, European Regional Science Conference, Amsterdam
July 2005	Organiser of special session on “Modelling of air-travel choice behaviour”, Air Transport Research Society Conference, Rio de Janeiro
January 2005	Organiser of special session on “Advanced techniques for modelling air travel choice behaviour”, 84 <sup>th</sup> Annual Meeting of the Transportation Research Board, Washington DC

## **REVIEWING ACTIVITIES**

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### ***Journals***

American Journal of Agricultural Economics  
Australian Journal of Agricultural and Resource Economics  
Energy Economics  
Environment and Development Economics  
Environment and Planning  
Environment and Development Economics  
Environmental Economics and Policy Studies  
Environmental and Resource Economics  
European Economic Review  
European Journal of Transport and Infrastructure Research  
European Review of Agricultural Economics  
International Journal of Tourism Research  
Journal of Airport Management  
Journal of Applied Econometrics  
Journal of Business and Economic Statistics  
Journal of Choice Modelling  
Journal of Economic Surveys  
Journal of Environmental Economics and Management  
Journal of Mathematical Psychology  
Journal of Regulatory Economics  
Journal of Transport Economics and Policy  
Journal of Transport Geography  
Management Science  
Networks and Spatial Economics  
Omega – The International journal of Management Science  
Oxford Bulletin of Economics and Statistics  
Public Transport  
Psychometrika  
Regional Science and Urban Economics  
Resource and Energy Economics  
Science of the Total Environment (SOTEN)

Social Science Research  
Southern Economic Journal  
The Service Industries Journal  
Theory and Decision  
Tourism Management  
Transport Geography  
Transportation  
Transportation Letters  
Transportation Research Part A  
Transportation Research Part B  
Transportation Research Part C  
Transportation Research Part D  
Transportation Research Part E  
Transportmetrica A: Transport Science  
Transportmetrica B : Transport Dynamics  
Transport Policy  
Transport Reviews  
Transportation Science

***International conferences***

Air Transport Research Society  
European Transport Conference  
International Association of Travel Behaviour Research  
Symposium of the European Association for Research in Transportation  
Transportation Research Board  
TRB Conference on Innovations in Travel Modelling  
Triennial Symposium on Transportation Analysis (TRISTAN)  
URBE 2015 - URban freight and BEhavior change  
World Conference on Transport Research Society

***Review of research proposals***

European Cooperation in the field of Scientific & Technical Research: COST  
Katholieke Universiteit Leuven (Belgium)  
The Research Foundation – Flanders, FWO (Belgium)  
Marsden Fund (New Zealand)  
Medical Research Council (MRC)  
Netherlands Organisation for Scientific Research (NWO)  
UK Engineering and Physical Sciences Research Council: (EPSRC)  
UK Economic and Social Research Council: (ESRC)  
US National Science Foundation (NSF)  
Singapore National Research Foundation

***Other reviewing activities***

PhD dissertations submitted for the Eric Pas Eric prize for the best PhD thesis in the field of Travel Behaviour Research, International Association for Travel Behaviour Research

**EXTENDED ACADEMIC VISITS**

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June 2016	Universidad de Concepcion, Chile
June 2016	Universidad de Chile, Santiago, Chile
November 2015	Institute of Transport and Logistics Studies, University of Sydney
May 2014	Institute of Transport and Logistics Studies, University of Sydney
July 2013	Institute of Transport and Logistics Studies, University of Sydney
June 2012	National Cheng Kung University, Tainan, Taiwan
May 2012	Institute of Transport and Logistics Studies, University of Sydney
November 2011	Institute of Transport and Logistics Studies, University of Sydney

November 2010	Centre for the Study of Choice (CenSoC), University of Technology Sydney
November 2010	Institute of Transport and Logistics Studies, University of Sydney
November 2008	Institute of Transport and Logistics Studies, University of Sydney
September 2007	Institute of Transport and Logistics Studies, University of Sydney
April 2006	Waikato Management School, University of Waikato (New Zealand)

### **HOSTING OF ACADEMIC VISITORS FOR EXTENDED VISITS**

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09/2014-03/2015	David Palma, Pontificia Universidad Católica de Chile, PhD visitor
07/2014-01/2015	Angelo Guevara, Universidad de los Andes, Chile, sabbatical visit
09/2012-09/2014	Nobuhiro Sanko, Kobe University, sabbatical visit
08/2011-09/2011	Amanda Stathopoulos, University of Trieste, Italy, PhD visitor
07/2011-12/2011	Tatjana Ibraimovic, Università della Svizzera italiana, Lugano, PhD visitor
04/2011-10/2011	Julián Arellana, Pontificia Universidad Católica de Chile, PhD visitor
07/2010-08/2010	John Rose, University of Sydney, Australia, visiting academic
01/2010-04/2010	Amanda Stathopoulos, University of Trieste, Italy, PhD visitor

### **PARTICIPATION IN INVITATIONAL SYMPOSIA AND WORKSHOPS**

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#### ***Keynote presentations***

June 2015	Third Workshop On Non-Market Valuation (WONV), Nancy, France, “An outsider’s view on choice modelling work in environmental economics”
November 2014	10th International Conference on Transport Survey Methods, Leura, Australia “Challenges for very large transport models: the example of TransTools3”
June 2012	Air Travel Research Society Conference, Tainan, Taiwan “New directions in air travel behaviour modelling”
May 2010	TRB Conference on Innovations in Travel Modelling (ITM), Tempe, Arizona “Conflicting interpretations of respondent heterogeneity”

#### ***Invited conference, symposia and workshop presentations***

April 2017	Workshop on “Advancing the Science of travel demand modelling”, University of California at Berkeley, Plenary Presenter on “Reflections on choice modelling for travel demand modelling”
September 2016	Symposium on regret minimisation, Delft University, Plenary presenter on “Limitations and contrasts: re-evaluating the benefits of alternatives to RUM”.
December 2015	Symposium in Honour of Dan McFadden, Université Cergy Pontoise, Paris Plenary presenter on “Advances in value of time modelling and implications for practice”
October 2014	Applied Health Econometrics Symposium, Academic Unit of Health Economics, University of Leeds Plenary presenter on “Incorporating attitudinal constructs in choice models: theory and an application to back pain”
February 2014	3 <sup>rd</sup> European Workshop on Discrete Choice Modelling, Padua Plenary presenter on “Intra-respondent heterogeneity in a stated choice survey on wetland conservation in Belarus: first steps towards creating a link with uncertainty in contingent valuation” and “Maximise your utility by minimising your regret: contrasts between two decision paradigms”
December 2013	Third Danish Choice Modelling Day, University of Southern Denmark, Odense Plenary presenter on “Maximise your utility by minimising your regret: contrasts between two decision paradigms”
April 2013	University of Leeds research day on decision making, plenary presentation on “How do individuals make decisions? Contributions from the field of choice modelling”
February 2013	2 <sup>nd</sup> European Workshop on Discrete Choice Modelling, Berlin

- Plenary presenter on “Linking response quality to survey engagement: a combined random scale and latent variable approach” and “Stop attending to non-attendance”
- July 2012 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto  
Resource paper presentation: “When explanatory variables are unobserved: the example of latent income”
- April 2012 Workshop on noise and imprecision in individual and interactive decision-making, University of Warwick  
Plenary presenter on “Random utility approaches to noise and imprecision”
- March 2012 Conjoint Analysis in Health Care conference, Orlando, Florida  
Plenary presenter in panel session on “Collaborating across disciplines”
- February 2012 Bilbao European Workshop on Discrete Choice Experiments  
Plenary presenter on “Can scale and coefficient heterogeneity be separated in random coefficients models?”
- January 2012 91st Annual Meeting of the Transportation Research Board, Washington, D.C.  
Workshop on “Moving Beyond Quantitative Attributes in Stated-Response Surveys: Understanding the Role of Qualitative Variables in Travel Choices”  
Presentation on “What If Some People Don't Care? Accommodating Low Importance Ratings for Qualitative Attributes in Our Models”
- December 2011 First Danish Choice Modelling Day, University of Southern Denmark, Odense  
Plenary presenter on “Hybrid choice models”
- July 2011 Second International Choice Modelling Conference, Oulton Hall, Leeds  
Workshop presentation on “Working with repeated choice data”
- April 2011 UKTRC Scanning Exercise Workshop 2: Theories of individual-level decision-making and the modelling of travel behaviour data, Imperial College London  
Plenary presenter on “Individual specific choice behaviour: heterogeneity and the role of scale, attitudes, decision rules and data processing strategies”
- January 2010 89<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.  
Workshop on “Fundamentals of Stated-Choice Studies: Practical Guide to Designing and Implementing Stated-Choice Surveys”  
Presentation on “Discrete Choice Models and Related Issues”
- March 2007 Oslo workshop on valuation methods in transport planning, Oslo  
Presentation on “A latent class approach to modelling heterogeneous information processing strategies in SP studies”
- November 2006 UK/ Canada Workshop on Urban Energy Efficiency, Toronto  
Plenary presenter on “Consumer response and spatio-temporal behaviour”
- November 2005 German Aviation Research Society workshop on Benchmarking and Airport Competition, Vienna  
Presentation on “Competition between London Airports”.
- September 2005 First workshop on discrete choice models, EPFL Lausanne  
Presentation on “Some issues in modelling the value of travel time savings”
- November 2004 German Aviation Research Society workshop on Slots, Airport Competition and Benchmarking of Airports, Bremen  
Presentation on “Understanding airport choice behaviour”
- April 2004 Workshop in computational econometrics and statistics, Neuchatel University, Switzerland  
Presentation on “Recent developments in the area of simulation-based discrete choice models”

***Invited symposia and workshop participation***

- February 2014 OECD round table on “Forecasting Airport Demand”, Paris
- May 2010 International Choice Symposium, Key Largo, Florida

September 2008 OECD round table on “Airline Competition, Systems of Airports and Intermodal Connections”, Paris

## **INVITED SEMINARS**

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### **2016**

University of Western Australia, September 2016

*How much do travellers value time: new evidence from the UK*

*Moving away from random utility: do the gains really outweigh the losses?*

Pontificia Universidad Católica de Chile, June 2016

*Estimation of new economic transport measures for Singapore*

Transport for New South Wales, Sydney, December 2016

*Developments in choice modelling and challenges for practice*

### **2015**

University of South Australia

*Specification and estimation of behavioural models for the 2015 UK value of time study*

University of Sydney

*How much do travellers value time: new evidence from the UK*

University of Leeds

*Specification and estimation of behavioural models for the 2015 UK value of time study*

KTH Royal Institute of Technology in Stockholm

*Specification and estimation of behavioural models for the 2015 UK value of time study*

University of Aberdeen

*Incorporating attitudinal constructs - Theory and an application to back pain, June 2015*

University of Pretoria

*Can behavioural science help in guiding policy decisions - a modeller's view, March 2015*

Northwestern University, Illinois

*What can choice modelling learn from behavioural economics and does it matter?, January 2015*

### **2014**

Hong Kong Polytechnic University

*Indirect inference in large scale applications, November 2014*

Land Transport Authority (LTA), Singapore

*Choice modelling: background and recent issues, November 2014*

University of California at Santa Barbara, June 2014

*Computation of willingness-to-pay measures from random utility models*

University of California at Irvine, May 2014

*A mixed random utility - Random regret model linking the choice of decision rule to latent character traits*

University of Sydney, April 2014

*Leadership seminar, Putting behaviour (back) into choice modelling: what are the benefits for transport research*

Stirling University, March 2014

*Intra-respondent heterogeneity in a stated choice survey on wetland conservation in Belarus: first steps towards creating a link with uncertainty in contingent valuation*

### **2013**

Delft University of Technology, November 2013

*Maximise your utility by minimising your regret: contrasts between two decision paradigms*

Resource Systems Group, September 2013

*Random utility maximisation and random regret minimisation*

*Consistency (or lack thereof) between choices in best-worst surveys*

*Developing advanced route choice models for heavy goods vehicles using GPS data*

Catholic University of Leuven, April 2013



*Separating scale heterogeneity and coefficient heterogeneity: misunderstandings and a way forward*

**2012**

VU University Amsterdam, September 2012

*When explanatory variables are unobserved: the example of latent income*

Pontificia Universidad Católica de Chile, August 2012

*Advantages of latent class over continuous mixture of Logit models*

University of Sydney, May 2012

*Attribute importance, fungibility, and thoughts on attending to non-attendance (or why not to)*

**2011**

Waikato Management School, University of Waikato, November 2011

*Incorporating attitudes in choice models*

University of Technology Sydney, November 2011

*Can scale and coefficient heterogeneity be separated in random coefficients models?*

University of Sydney, November 2011

*Making use of respondent reported processing information to understand attribute importance: a latent variable scaling approach*

Academic Unit of Health Economics, University of Leeds, October 2011

*Incorporating attitudes in choice models*

University of the Basque Country, Bilbao, October 2011

*Incorporating attitudes in choice models*

Università della Svizzera italiana, Lugano, April 2011

*Linking response quality to survey engagement: a combined random scale and latent variable approach*

Scottish Agricultural College, January 2011

*Accounting for latent attitudes in an analysis of the willingness to pay for improved water quality by beach visitors in Tobago*

Queen's University Belfast, January 2011

*Mixing of behavioural processes: a concept and four case studies*

**2010**

University of Technology Sydney, November 2010

*Linking response quality to survey engagement: a combined random scale and latent variable approach*

University of Sydney, November 2010

*Mixing of behavioural processes: a modelling framework and four case studies*

Resource Systems Group, September 2010

*Accounting for latent attitudes in discrete choice models*

ETH Zurich, June 2010

*Trends in air travel behaviour research*

Catholic University of Leuven, March 2010

*Random scale heterogeneity in discrete choice models*

University of Manchester, February 2010

*Accounting for uncertainty in modelling travellers' preferences for different bus fare structures*

**2009**

University of Rome (III), July 2009

*Non-trading, lexicographic and inconsistent behaviour in SP choice data*

Loughborough University, June 2009

*Modelling air travel behaviour*

Resource Systems Group, May 2009

*Random scale heterogeneity in discrete choice models*

Massachusetts Institute of Technology, May 2009

Random scale heterogeneity in discrete choice models  
Queen's University Belfast, January 2009  
*Calculating errors for measures derived from choice modelling estimates*

**2008**

University of Sydney, December 2008  
*Allowing for differences across respondents in information processing strategies*  
University of Westminster, November 2008  
*Air travel choice behaviour workshop*  
Resource Systems Group, August 2008  
*Allowing for differences across respondents in information processing strategies*

**2007**

University of Sydney, September 2007  
*Non-trading, lexicographic and inconsistent behaviour in SP choice data*  
Resource Systems Group, July 2007  
*Stated preference models for air travel behaviour*  
University of Leeds, March 2007  
*Intra-respondent taste heterogeneity in instantaneous panel surveys*  
RAND Europe, March 2007  
*Intra-respondent taste heterogeneity in instantaneous panel surveys*  
Technical University of Copenhagen, February 2007  
*Some lessons for working with repeated choice data*

**2006**

ETH Zurich, December 2006  
*Swiss valuation of travel time*  
Massachusetts Institute of Technology, October 2006  
*Advanced discrete choice models with applications to transport demand*  
Monash University, May 2006  
*Understanding air travel choice behaviour*  
University of Sydney, May 2006  
*Understanding air travel choice behaviour*

**2005**

University of Technology Sydney, December 2005  
*Modelling variations in the valuation of travel time savings*  
Imperial College London, October 2005  
*Modelling variations in the valuation of travel time savings*  
Universidad de Chile, July 2005  
*Modelling variations in the value of travel-time savings*  
Pontificia Universidad Católica de Chile, June 2005  
*Modelling air-travel choice behaviour*  
University of Westminster, June 2005  
*Modelling passengers' choice of airport*  
UK Civil Aviation Authority, March 2005  
*Specification and Estimation of Discrete Choice models*  
RAND Europe, February 2005  
*Modelling air-travel choice behaviour in multi-airport regions*

**2004**

University of Leeds, November 2004  
*Analysing air-travel choice behaviour*  
University of York, November 2004  
*Analysing air-travel choice behaviour*  
Massachusetts Institute of Technology, October 2004

*GEV models with random taste coefficients*  
Laval University Quebec, October 2004  
*Estimation of value of travel-time savings, Canada, October 2004.*

Northwestern University  
*Improvements in the efficiency of simulation-based estimation processes*  
University of Westminster, October, 2004  
*Models for the joint analysis of airport, airline and access-mode choice for passengers departing from the San Francisco Bay area*

EPFL Lausanne, August 2004  
*Distributional assumptions in advanced discrete choice models*

Technical University Copenhagen, June 2004  
*Estimation of VOT in models allowing for random travel time coefficients*  
*Structures for the joint modelling of correlation between alternatives and taste heterogeneity across decision-makers*

ETH Zurich, April 2004  
*Mixed GEV Models*

### 2003

University of York, November 2003  
*Recent developments in the area of simulation-based estimation of discrete choice models*

University of Leeds, November 2003  
*Recent developments in the area of simulation-based estimation of discrete choice models*

University of Namur, November 2003  
*Recent developments in the estimation of mathematical models based on integrals without a closed-form solution*

Houses of Parliament, London, March 2003  
*The Effectiveness of U.K. Speed Camera Programmes", poster presented at the SET Annual Reception*

RAND Europe, Cambridge, January 2003  
*An Analysis of the Effects of Speed Limit Enforcement Cameras on Accident Rates*

## TEACHING ACTIVITIES

*In addition to the teaching activities in universities outlined below, I have also run private courses on choice modelling for various industrial and public body clients.*

Years taught	Module name	Institution	Audience	Student numbers	Contact hours (share of total)	Role
2016	Advanced choice modelling	London	academic and private sector	33	16 (60%)	Course organiser and lead teacher
2015	Choice modelling and stated choice survey design	London	academic and private sector	29	24 (60%)	Course organiser and lead teacher
2015	Choice modelling and stated preference survey design	Cape Town University	postgraduate & public/private sector	24	25 (60%)	Module leader
2014	Choice modelling and stated preference survey design	National University Singapore	postgraduate & public/private sector	22	16 (100%)	Module leader
2013-present	Choice modelling and stated preference survey design	University of Leeds	postgraduate	25-30	33 (80%)	Module leader

2009-2012	Stated Preference Methods	University of Leeds	postgraduate & public/private sector	20-30	12-18 (80%)	Module leader
2012, 2013, 2015	Diploma of advanced studies in transport (in German)	ETH Zurich, Switzerland	public/private sector	8 (average)	16 (33%)	Guest lecturer
2007, 2011, 2013	Measuring & Modelling (in German)	ETH Zurich, Switzerland	postgraduate	10 (average)	12-18 (80%)	Guest lecturer
2012	Choice modelling short course	National Cheng Kung University, Taiwan	postgraduate & professorial staff	35	8 (100%)	Course leader, sole teacher
2006, 2007, 2010	Choice Modelling short course (in German)	ETH Zurich, Switzerland	public/private sector	10 (average)	12 (40%)	Guest lecturer
2008, 2009	Summer School on Discrete Choice Modelling	University of Bologna, Italy	postgraduate & public/private sector	30 (average)	17 (25%)	Guest lecturer
2007	Choice Modelling short course	Imperial College London	postgraduate & public/private sector	28	10 (60%)	Course organiser & main lecturer

### EXAMINATION OF PHD STUDENTS

November 2016	Alexandros Dimitropoulos VU University Amsterdam
June 2016	David Palma Araneda Pontificia Universidad Católica de Chile
December 2015	Laura-Lucia Richter University of Cambridge
February 2014	Ruihua Lu Delft University of Technology
November 2013	Qian Wang KTH Stockholm
November 2013	Sander van Cranenburgh Delft University of Technology
June 2013	Marjolein Crabbe Catholic University of Leuven
May 2013	Tatjana Ibraimovic Università della Svizzera italiana, Lugano
April 2013	Christiaan Behrens VU University Amsterdam
September 2012	Thijs Dekker VU University Amsterdam
August 2012	Julián Arellana Pontificia Universidad Católica de Chile
April 2012	Amanda Stathopoulos University of Trieste
April 2011	Thomas Robin EPFL Lausanne
June 2010	Cristian Angelo Guevara-Cue Massachusetts Institute of Technology
June 2010	Nadine Schuessler

ETH Zurich

**SUPERVISION OF PHD STUDENTS*****Current students***

<b>Start date</b>	<b>Completion date</b>	<b>Name</b>	<b>Topic</b>
03/2016	2019 (exp)	Thomas Hancock	Behavioural flexibility in choice modelling - bridging the gap with behavioural economics
10/2015	2018 (exp)	Fangqing Song	Route Choice Analysis and Operation Optimisation in the Context of Intermodal Passenger Transport
10/2015	2018 (exp)	Mauro Capurso	Modelling awareness, consideration set and mode choice: an application on the Rome - Milan corridor
10/2015	2018 (exp)	Jeff Tjong	Understanding hypothetical bias in stated preference data for transport studies
10/2015	2018 (exp)	Bashirul Haque	Integrated modelling of land use and transport related long-term and short-term choices
10/2015	2018 (exp)	Andrew Bwambale	Developing Transport Planning Models Using Mobile Phone Data
10/2015	2018 (exp)	Evangelos Paschalidis	Developing advanced driving behaviour models from data collected in driving simulator experiments and video recordings
10/2014	2017 (exp)	Louise de Tremerie	Demand for inland waterways for freight
10/2014	2017 (exp)	Chiara Calastri	Applying mixed methods in freight mode choice modelling: developing a goal framework to understand decision-making towards more sustainable modes

***Past students***

<b>Start date</b>	<b>Completed</b>	<b>Name</b>	<b>Topic</b>
06/2008	06/2015	James Fox (part-time)	Temporal Transferability of Mode-Destination Models
09/2011	02/2015	Manuel Ojeda Cabral	The Value of Travel Time Changes: Theoretical and Empirical Issues
09/2010	11/2014	Qian Fu	Modelling route choice behaviour with incomplete data: an application to the London Underground
09/2009	05/2012	Vikki Gibson	Incorporating attitudinal factors and multi-agent decision making within the context of discrete choice experiments

**SUPERVISION OF MSC STUDENTS**

<b>Dissertation submission date</b>	<b>Name</b>	<b>Topic</b>	<b>Institution</b>
September 2014	Rendy Prakoso	A statistical comparison between car ownership characteristics in UK and Japan	Institute for Transport Studies, University of Leeds
September 2014	Leonardo Ortiz Olivares	A multinational study of the value of time	Institute for Transport Studies, University of Leeds
September 2014	Marina Triampela	Understanding the Role of Attitudes in Responding to Mode Shift Incentives	Institute for Transport Studies, University of Leeds
September 2013	Jeff Tjong	Re-estimating UK value of time using advanced models	Institute for Transport Studies, University of Leeds
September 2013	Xiao Wang	Understanding the impact of crowding and delays/lateness on different population groups	Institute for Transport Studies, University of Leeds

September 2013	Arif Kurniawan	Comparison of sensitivities for bus travellers and rail travellers using stated preference methods	Institute for Transport Studies, University of Leeds
September 2012	Dimas Pratama	First class rail travel: who is willing to pay for it?	Institute for Transport Studies, University of Leeds
September 2011	Huai-Ching Lin	A meta analysis of willingness to pay measures in air travel behaviour research	Institute for Transport Studies, University of Leeds
September 2011	Manuel Ojeda Cabral	Air – rail integration: Case study about the connection between the canary islands and the iberian peninsula	Institute for Transport Studies, University of Leeds
March 2008	Thomas Hettinger	Consistency of choice models	Institute for Transport Planning and Systems, ETH Zurich

## INCOME GENERATION AND PROJECT MANAGEMENT

### External funding

	Awarded	Timing	Role	Funding body	Project type	Topic	Total value	Value to Leeds
<b>G13</b>	10/2015	11/2015-12/2016	PI	Leverhulme Trust	Visiting Professorship - Dr Cristian Angelo Guevara Cue	Studying the decoy effect	£7,900	£7,900
<b>G12</b>	09/2015	01/2016-12/2018	Co-I	National Institute for Health Research (NIHR)	Responsive mode	Identifying appropriate symbol communication aids for children who are non-speaking: enhancing clinical decision making	£686,112	£129,418

<b>G11</b>	04/2015	04/2015-12/2018	international partner investigator	Ministerio de Ciencia y Tecnología (Spain)	Responsive mode	Incorporating latent attitudes for sustainable planning and management of landscapes	£9,800	£980
<b>G10</b>	11/2014	01/2015-12/2018	international partner investigator	Australian Research Council	Discovery Grant	Investigating travel choice behaviour: a new approach	£363,555	-
<b>G9</b>	05/2014	05/2014-04/2015	Co-I	UK Department for Transport	Framework proposal	Provision of market research for value of time savings and reliability	£1,501,947	£539,000
<b>G8</b>	12/2013	07/2014-06/2019	PI	European Research Council	Consolidator grant	Choices and consumption: modelling long and short term decisions in a changing world	£1,567,891	£1,567,891
<b>G7</b>	7/2012	01/2013-12/2015	Co-I	National Institute for Health Research (NIHR)	Responsive mode	Evaluation of patient preferences for and cost effectiveness of community intravenous antibiotic services	£402,614	£271,648
	7/2011						£592,923	£59,648

<b>G6</b>		09/2011-09/2014	Co-I (PI for Leeds)	US Federal Highway Administration	Exploratory Research Grant	Long Distance Modelling		
<b>G5</b>	4/2011	04/2011-08/2011	PI	UK Department for Transport	Framework proposal	Freight Route Choice Using GPS Data	£45,330	£45,330
<b>G4</b>	12/2010	03/2011 – 03/2016	Co-I (PI for Leeds)	Danish Strategic Research Council	Responsive mode grant (10-086415)	ACTUM Analyses of activity-based travel chains and sustainable mobility	£2,722,540	£186,318
<b>G3</b>	7/2010	01/2011 – 12/2015	Co-I (PI for Leeds)	EU	FP7 Cooperation Work Programme	Transport modelling for policy impact assessment	£1,607,383	£191,407
<b>G2</b>	12/2008	02/2009 – 10/2010	PI	Engineering and Physical Sciences Research Council (EPSRC)	Responsive mode grant (EP/G033609/1)	Estimation of travel demand models from panel data	£90,865	£90,865
<b>G1</b>	5/2008	10/2008 – 10/2010	PI	Leverhulme Trust	Leverhulme Early Career Fellowship	Advances in modelling human choice behaviour	£59,500	£59,500
<b>Total</b>							£ 9,658,360	£ 3,149,905

**Mentor on grants**

Awarded	Timing	Role	Funding body	Project type	Topic	Total value	Value to Leeds
12/2013	01/2016-12/2018	Primary contact / mentor (PI: Charisma Choudhury)	European Union FP7	Marie Curie Career Integration Grant	Next Generation Driving Behaviour Models (NG-DBRM)	£83,836	£83,836

**Student scholarship grants**

Date of award	Student	Scholarship/Funder	Value
October 2015	Fangqing Song	China Scholarship Council (CSC)	undisclosed
October 2015	Evangelos Paschalidis	ESRC fees only award	£12,339



October 2015	Mauro Capurso	Leeds University Anniversary Research Scholarships	£55,164
October 2015	Jeff Tjong	ESRC AQM studentship	£66,767
October 2015	Bashirul Haque	ESRC AQM studentship	£66,767
October 2015	Andrew Bwambale	ESRC AQM studentship	£66,767
October 2014	Louise De Tremerie	Leeds University Anniversary Research Scholarships	£54,399
October 2011	Manuel Ojeda Cabral	ESRC (White Rose Doctoral Training Centre)	£61,250
October 2010	Qian Fu	China Scholarship Council (CSC)	undisclosed
June 2008	James Fox	EPSRC doctoral training grant	£40,600

**Teaching income**

Date of course	Institution	Topic	Value
November 2015	University of Leeds	CPD course on choice modelling and stated choice survey design	£31,500
December 2014	University of Leeds	CPD course on choice modelling and stated choice survey design	£12,600
March 2012	University of Leeds	Short course on stated preference methods	£2,475
April 2011	University of Leeds	Short course on stated preference methods	£5,996
March 2010	University of Leeds	Short course on stated preference methods	£4,380
March 2009	University of Leeds	Short course on stated preference methods	£3,847
November 2007	Imperial College London	Short course on discrete choice modelling	£22,350

**Travel grants**

Date of award	Funding body	Type of grant	Value
October 2014	University of Sydney	Honorary Professor grant	£7,976 (AUD15,000)
May 2011	University of Sydney	Honorary Professor grant	£9,730 (AUD15,000)
June 2010	University of Technology Sydney	Visiting researcher grant	£2,860 (AUD5,000)
May 2010	University of Sydney	Visiting researcher grant	£3,326 (AUD5,500)
November 2008	University of Sydney	Visiting researcher grant	£4,910 (AUD12,000)
September 2007	University of Sydney	Visiting researcher grant	£4,865 (AUD12,000)
January 2006	University of Sydney	Visiting researcher grant	£5,531 (AUD13,000)

**Other project management**

Project timing	Role	Funding body	Project type	Topic	Value
06/2006 – 06/2007	Acting project manager	Swiss Road Traffic Institute	Responsive mode grant (SVI 2005/007)	Value of travel time savings for passenger traffic: Perception and Distance dependency	£29,287 (CHF 66,720)

**INPUT TO RESEARCH PROJECTS, EXPERT REVIEW AND ADVICE, CONTRACT RESEARCH****Academic funding bodies**

- 01/2016 – 12/2018 Identifying appropriate symbol communication aids for children who are non-speaking: enhancing clinical decision making, National Institute for Health Research (NIHR)
- 04/2015 – 12/2018 Incorporating latent attitudes for sustainable planning and management of landscapes, Ministerio de Ciencia y Tecnología (Spain)
- 01/2015 – 12/2018 Investigating travel choice behaviour: a new approach, Australian Research Council
- 07/2014 – 07/2019 Choices and consumption: modelling long and short term decisions in a changing world, European Research Council Consolidator Grant
- 11/2011 – 11/2013 Optimised Co-Modal PASSenger transport for reducing carbon emissions (COMPASS), EU FP7 Cooperation Work Programme
- 02/2011 – 02/2013 Optimal Regulation and Infrastructure for Ground, Air and Maritime Interfaces (ORIGAMI), EU FP7 Cooperation Work Programme
- 03/2011 – 03/2016 ACTUM Analyses of activity-based travel chains and sustainable mobility , Danish Research Council
- 01/2011 – 12/2013 Transport modelling for policy impact assessment (TRANSTOOLS), EU FP7 Cooperation Work Programme
- 06/2009 – 06/2011 INTERCONNECTIon between short- and long-distance transport networks, EU FP7 Cooperation Work Programme
- 02/2009 – 10/2010 Estimation of travel demand models from panel data, Engineering and Physical Sciences Research Council (EPSRC)
- 10/2008 – 10/2010 Advances in modelling human choice behaviour, Leverhulme Trust

### ***Non-academic funding bodies***

- 05/2014 – 04/2015 Provision of market research for value of time savings and reliability, UK Department for Transport
- 09/2011 – 09/2014 Long Distance Modelling, US Federal Highway Administration
- 04/2011 – 08/2011 Freight Route Choice Using GPS Data, UK Department for Transport
- 05/2009 – 05/2010 Updating Appraisal Values for Travel Time Savings, UK Department for Transport
- 09/2008 – 02/2009 Peer review of valuation of the overcrowding on rail services, UK Department for Transport
- 08/2008 – 09/2008 Speed Limit Adherence and its Effect on Road Safety and Climate Change, Commission for Integrated Transport and the Motorists' Forum
- 05/2008 – 06/2008 Acceptability and Effectiveness of Potential Developments of Road User Charging in London, Transport for London
- 05/2008 – 03/2009 Bus soft factors, UK Department for Transport
- 06/2006 – 06/2007 Value of travel time savings for passenger traffic: Perception and Distance dependency, Swiss Association of Transportation Engineers (SVI)
- 01/2006 – 07/2006 Review of Travel Time Variability, UK Department for Transport
- 09/2005 – 11/2005 Reestimation of Swiss Value of Time, Swiss Federal Roads Authority
- 01/2004 – 01/2005 Modelling Mode and Time of Day, UK Department for Transport

## **WORK FOR INDUSTRY**

### ***Non-academic affiliations***

- 05/2014 – present Director, RSG, [www.rsginc.com](http://www.rsginc.com)
- 04/2008 – 05/2014 Senior Technical Advisor, Resource Systems Group Inc., White River Junction, Vermont, USA
- 01/2006 – 12/2007 Senior Consultant, Minnerva Ltd

### ***Clients***

I have done work for the following companies and public bodies, ranging from specific expert advice to large scale input into consulting projects:

Accent (UK) - California Energy Commission (US) - Deloitte (UK) -  
Department for Transport (UK) - Heathrow Express (UK) - LAN airlines (Chile) -

National Express (UK) – Ned Rail (Netherlands) - Office for National Statistics (UK) - Oxera (UK) - Port Authority of New York (US) - RAND Europe (UK) - Resource Systems Group (US) - Royal Mail (UK) - Transport for London (UK) - Washington State Ferries (US)

## PUBLICATIONS

*The publications listed here are divided into various groups. After listing edited books and special journal issues, I first show papers published in peer reviewed academic journals. Conference papers are divided into papers that have completed a full paper review, and papers accepted on the basis of an abstract review process. The former includes papers from the Annual Meeting of the Transportation Research Board which is the major international conference for research in the field of Transport. Acceptance rates at this highly competitive conference are around 50%, based on a full paper review. I also list a selection of past working papers and other published material. I have written papers with over 60 different co-authors, from academia and industry, and from various different countries. The contribution of the co-authors varies widely, from a relatively minor role (including provision of data) through to substantial research support. The majority of my papers have also been presented at international conferences, typically both in Europe and in the United States, and over 90% of conference papers are subsequently submitted for journal publication. For a list of current working papers and papers under peer review, see [www.stephanehess.me.uk](http://www.stephanehess.me.uk)*

### *Edited books*

- EB3** Hess, S. & Daly, A. (2014), Handbook of choice modelling, Edward Elgar publishers, Cheltenham.
- EB2** Hess, S. & Daly, A. (2013), Choice Modelling: the state-of-the-art and the state-of-practice, Edward Elgar publishers, Cheltenham.
- EB1** Hess, S. & Daly, A. (2010), Choice Modelling: the state-of-the-art and the state-of-practice; Proceedings from the Inaugural International Choice Modelling Conference, Emerald, Bingley.

### *Guest editor for journals*

- EJ2** Hess, S., & Scarpa, R. (2010), Specification and interpretation issues in behavioural models used for environmental assessment, special issue of *Transportation Research Part D*, 15(7).
- EJ1** Hess, S. & Polak, J.W. (2007), Selected papers on applications of discrete choice models presented at the European Regional Science conference, special issue of *Transportation Research Part A*, 41(9)

### *Peer reviewed journal publications*

- J94** Hess, S. & Train, K.E. (2017), Correlation and scale in mixed logit models, *Journal of Choice Modelling*, 23, pp. 1-8.
- J93** Minton J, Murray CC, Meads D, Hess S, Vargas-Palacios A, Mitchell E, et al. The Community IntraVenous Antibiotic Study (CIVAS): a mixed-methods evaluation of patient preferences for and cost-effectiveness of different service models for delivering outpatient parenteral antimicrobial therapy. *Health Serv Deliv Res* 2017;5(6)
- J92** Hess, S., Murphy, P., Le, H. & Leong, W.Y. (2017), Estimation of new monetary valuations of travel time, quality of travel and safety for Singapore, *Transportation Research Record*, accepted for publication, February 2017.
- J91** Beck, M.J., Hess, S., Ojeda Cabral, M. & Dubernet, I. (2017), Valuing travel time changes: a case of short-term or long-term choices?, *Transportation Research Part E*, 100, pp. 133-143.
- J90** Calastri, C., Hess, S., Daly, A.J., Maness, M. Kowald, K., Axhausen, K.W. (2017), Modelling contact mode and frequency of interactions with social network members using the multiple discrete-continuous extreme value model, *Transportation Research Part C*, 76, pp. 16-34.
- J89** Hess, S. & Börjesson, M. (2017), Understanding attitudes towards congestion pricing: a latent variable investigation with data from four cities, *Transportation Letters*, accepted for publication, November 2016.

- J88** Leong, W., Goh, K., Hess, S. & Murphy, P. (2016), Improving bus service reliability: The Singapore experience, *Research in Transportation Economics*, 59, pp. 40-49.
- J87** Lu, H., Hess, S., Daly, A.J. & Rohr, C. (2017), Measuring the impact of alcohol multi-buy promotions on consumers' purchase behaviour, *Journal of Choice Modelling*, accepted for publication, May 2016.
- J86** Ojeda Cabral, M., Hess, S. & Batley, R. (2017), Understanding valuation of travel time changes: are preferences different under different stated choice design settings?, *Transportation*, accepted for publication, April 2016.
- J85** Ibraimovic, T. & Hess, S. (2017), Changes in the ethnic composition of neighbourhoods: Analysis of household's response and asymmetric preference structures, *Papers in Regional Science*, accepted for publication, February 2016.
- J84** Hess, S., Daly, A., Dekker, T., Ojeda Cabral, M. & Batley, R.P. (2017), A framework for capturing heterogeneity, heteroskedasticity, non-linearity, reference dependence and design artefacts in value of time research, *Transportation Research Part B*, 96, pp. 126-149.
- J83** Daly, A.J., Dekker, T. & Hess, S. (2016), Dummy coding vs effects coding for categorical variables: clarifications and extensions, *Journal of Choice Modelling*, 21, pp. 36-41.
- J82** Pedersen, L.B., Kjaer, T. & Hess, S. (2016), Asymmetric information and user orientation in general practice. Exploring the agency relationship in a best-worst scaling study, *Journal of Health Economics*, *Journal of Health Economics* 50, pp. 115-130.
- J81** Batley, R.P. & Hess, S. (2016), Testing for regularity and stochastic transitivity using the structural parameter of nested logit, *Transportation Research Part B*, 93, pp. 355-376.
- J80** Beck, M. & Hess, S. (2016), Willingness to Accept Longer Commutes for Better Salaries: Understanding the Differences Within and Between Couples, *Transportation Research Part A*, 91, pp. 1-16.
- J79** Ojeda Cabral, M., Hess, S. & Batley, R. (2016), The value of travel time: random utility versus random valuation, *Transportmetrica A: Transport Science*, 12(3), pp. 230-248.
- J78** Dekker, T., Hess, S., Brouwer, R. & Hofkes, M. (2016), Decision uncertainty in multi-attribute stated preference studies, *Resource and Energy Economics*, 43, pp. 57-73.
- J77** Vuk, G., Bowman, J., Daly, A.J. & Hess, S. (2016), Impact of family in-home quality time on person travel demand, *Transportation*, 43(4), pp 705-724.
- J76** Czoski Murray, C., Twiddy, M., Meads, D., Hess, S., Wright, J., Mitchell, E.D., Hulme, C., Dodd, S, Gent, H, Gregson, A., McLintock, K., Raynor, D.K., Reynard, K., Stanley, P., Vincent, R. and Minton, J. (2015), Community IntraVenous Antibiotic Study (CIVAS): Protocol for An Evaluation of Patient Preferences for and Cost effectiveness of Community Intravenous Antibiotic Services, *BMJ Open*, 5(8), doi:10.1136/bmjopen-2015-008965
- J75** Ehreke, I., Hess, S., Weis, C. & Axhausen, K.W. (2015), Reliability in the German value of time study, *Transportation Research Record*, 2495, pp. 14-22.
- J74** Dumont, J., Giergiczny, M. & Hess, S. (2015), Individual level models vs. sample level models: contrasts and mutual benefits, *Transportmetrica*, 11(6), pp. 465-483.
- J73** Hess, S., Quddus, M., Rieser, N. & Daly, A.J. (2015), Developing advanced route choice models for heavy goods vehicles using GPS data, *Transportation Research Part E*, 77, pp. 29-44.
- J72** Hoyos, D., Mariel, P. & Hess, S. (2015), Incorporating environmental attitudes in discrete choice models: an exploration of the utility of the awareness of consequences scale, *Science of the Total Environment*, 505, pp. 1100-1111.
- J71** Mariel, P., Meyerhoff, J. & Hess, S. (2015), Heterogeneous preferences toward landscape externalities of wind turbines - combining choices and attitudes in a hybrid model, *Renewable & Sustainable Energy Reviews*, 41, pp. 647-657.
- J70** Hess, S. & Giergiczny, M. (2015), Intra-respondent heterogeneity in a stated choice survey on wetland conservation in Belarus: first steps towards creating a link with uncertainty in contingent valuation, *Environmental & Resource Economics*, 60(3), pp. 327-347.
- J69** Sanko, N., Hess, S., Dumont, J. & Daly, A.J. (2014), Contrasting imputation with a latent variable approach to dealing with missing income in choice models, *Journal of Choice Modelling*, 12, pp. 47-57.

- J68** Dekker, T., Hess, S., Arentze, T. & Chorus, C. (2014), Incorporating needs-satisfaction and regret-minimization in a discrete choice model of leisure activities, *Journal of Transport Geography* 38, pp. 66-74.
- J67** Kløjgaard, M. & Hess, S. (2014), Understanding the formation and influence of attitudes in patients' treatment choices for lower back pain: testing the benefits of a hybrid choice model approach, *Social Science & Medicine* 114, pp. 138-150.
- J66** Hess, S. (2014), Impact of *unimportant* attributes in stated choice surveys, *European Journal of Transport and Infrastructure Research*, 14(4), pp.349-361.
- J65** Fox, J.B., Miller, E., Daly, A.J. & Hess, S. (2014), Temporal Transferability of Models of Mode-Destination Choice for the Greater Toronto and Hamilton, *Journal of Transport and Land Use* 7(2), pp. 41-62.
- J64** Daly, A.J., Hess, S. & Dekker, T. (2014), Practical solutions for sampling alternatives in large scale models, *Transportation Research Record*, 2429, 148-156.
- J63** Hess, S., Beck, M. & Chorus, C. (2014), Contrasts between utility maximisation and regret minimisation in the presence of opt out alternatives, *Transportation Research Part A* 66, pp. 1-12.
- J62** O'Neill, V. & Hess, S. (2014), Heterogeneity assumptions in the specification of bargaining models: a study of household level trade-offs between commuting time and salary, *Transportation* 41(4), pp. 745-763.
- J61** O'Neill, V.L., Hess, S., Campbell, D. (2014), A question of taste: recognising the role of latent preferences and attitudes in analysing food choices, *Food Quality and Preferences* 32(PC), 299-310.
- J60** Johnson, D., Hess, S. & Matthews, B. (2014), Understanding air travellers' trade-offs between connecting flights and surface access characteristics, *Journal of Air Transport Management* 34, pp. 70-77.
- J59** Connors, R., Hess, S. & Daly, A.J. (2014), Analytic Approximations for Computing Probit Choice Probabilities, *Transportmetrica* 10(2), pp. 119-139.
- J58** Hess, S. & Stathopoulos, A. (2013), A mixed random utility - random regret model linking the choice of decision rule to latent character traits, *Journal of Choice Modelling* 9, pp. 27-38.
- J57** Hess, S., Shires, J.D. & Jopson, A. (2013), Accommodating underlying pro-environmental attitudes in a rail travel context: application of a latent variable latent class specification, *Transportation Research Part D* 25, pp. 42-48.
- J56** Collins, A., Hess, S. & Rose, J.M. (2013), Choice Modelling with Search and Sort Data from an Interactive Choice Experiment, *Transportation Research Part E* 56, pp. 36-45.
- J55** Hess, S. & Stathopoulos, A. (2013), Linking response quality to survey engagement: a combined random scale and latent variable approach, *Journal of Choice Modelling* 7, pp. 1-12.
- J54** Hess, S., Shires, J.D. & Bonsall, P.W. (2013), A latent class approach to dealing with respondent uncertainty in a stated choice survey for fare simplification on bus journeys, *Transportmetrica* 9(6), pp. 473-493.
- J53** Hess, S., Stathopoulos, A., Campbell, D., O'Neill, V. & Caussade, S. (2013), It's not that I don't care, I just don't care very much: confounding between attribute non-attendance and taste heterogeneity, *Transportation* 40(3), pp. 583-607.
- J52** Hess, S., Ryley, T., Davison, L. & Adler, T. (2013), Improving the quality of demand forecasts through cross nested logit: a stated choice case study of airport, airline and access mode choice, *Transportmetrica* 9(4), pp. 358-384.
- J51** Hess, S. & Hensher, D.A. (2013), Making use of respondent reported processing information to understand attribute importance: a latent variable scaling approach, *Transportation* 40(2), pp. 397-412.
- J50** Rose, J.M., Hess, S. & Collins, A. (2013), What if my model assumptions are wrong: the impact of non-standard behaviour on choice model estimation, *Journal of Transport Economics and Policy* 47(2), pp. 245-263.
- J49** Fu, Q., Liu, R. & Hess, S. (2012), A review on transit assignment modelling approaches to congested networks: a new perspective, *Procedia – Social and Behavioral Sciences* 54:1145-1155.

- J48** Stathopoulos, A. & Hess, S. (2012), Revisiting reference point formation, gains-losses asymmetry and non-linear sensitivities with an emphasis on attribute specific treatment, *Transportation Research Part A* 46(10), pp. 1673-1689.
- J47** Hess, S., Orr, S. & Sheldon, R. (2012), Consistency and Fungibility of Monetary Valuations in Transport, *Transportation Research Part A* 46(10), pp.1507-1516.
- J46** Arellana, J., Daly, A.J., Hess, S., Ortúzar, J.de D. & Rizzi, L. (2012), Development of surveys for study of departure time choice, *Transportation Research Record* 2303, pp. 9-18.
- J45** Hess, S. & Rose, J.M. (2012), Can scale and coefficient heterogeneity be separated in random coefficients models?, *Transportation* 39(6), pp. 1225-1239.
- J44** Chorlton, K., Hess, S., Jamson, S. & Wardman, M. (2012), Deal or No Deal: Can Incentives Encourage Widespread Adoption of Intelligent Speed Adaptation Devices?, *Accident Analysis & Prevention* 48, pp. 73-82.
- J43** Ben-Akiva, M., de Palma, A., McFadden, D., Abou-Zeid, M., Chiappori, P.A., de Lapparent, M., Durlauf, S., Fosgerau, M., Fukuda, D., Hess, S., Manski, C., Pakes, A., Picard, N. & Walker, J. (2012), Process and context in choice models, *Marketing Letters* 23(2), pp. 439-456
- J42** Hess, S. (2012), Rethinking heterogeneity: the role of attitudes, decision rules and data processing strategies, *Transportation Letters* 4(2), pp. 105-113.
- J41** Hess, S., Hensher, D. & Daly, A.J. (2012), Not bored yet – revisiting respondent fatigue in stated choice experiments, *Transportation Research Part A* 46(3), pp. 626-644.
- J40** Hess, S. & Beharry-Borg, N. (2012), Accounting for latent attitudes in willingness-to-pay studies: the case of coastal water quality improvements in Tobago, *Environmental and Resource Economics* 52(1), pp. 109-131.
- J39** Daly, A.J., Hess, S. & de Jong, G. (2012), Calculating errors for measures derived from choice modelling estimates, *Transportation Research Part B* 46(2), pp. 333-341.
- J38** Hess, S., Stathopoulos, A. & Daly, A.J. (2012), Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, *Transportation* 39(3), pp. 565-591.
- J37** Hess, S., Fowler, M., Adler, T. & Bahreinian, A. (2012), A joint model for vehicle type and fuel type choice: evidence from a cross-nested logit study, *Transportation* 39(3), pp. 593-625.
- J36** Daly, A.J., Hess, S., Patruni, B., Potoglou, D. & Rohr, C. (2012), Using ordered attitudinal indicators in a latent variable choice model: A study of the impact of security on rail travel behaviour, *Transportation* 39(2), pp. 267-297.
- J35** Daly, A.J., Hess, S. & Train, K.E. (2012), Assuring finite moments for willingness to pay in random coefficients models, *Transportation* 39(1), pp. 19-31.
- J34** Collins, A., Rose, J.M. & Hess, S. (2012), Interactive stated choice surveys: a study of air travel behaviour, *Transportation* 39(1), pp. 55-79.
- J33** Hess, S. & Train, K.E. (2011), Recovery of inter- and intra-personal heterogeneity using mixed logit models, *Transportation Research Part B* 45(7), pp. 973-990.
- J32** Hess, S., Greene, E.R., Falzarano, C.S. & Muriello, M. (2011), Pay to drive in my bus lane: a stated choice analysis for the proposed Lincoln Tunnel HOT lane into Manhattan, *Transport Policy* 18(5), pp. 649-656.
- J31** Hess, S. & Adler, T. (2011), An analysis of trends in air travel behaviour using four related SP datasets collected between 2000 and 2005, *Journal of Air Transport Management* 17(4), pp. 244-248.
- J30** Fox, J. & Hess, S. (2010), Review of Evidence for Temporal Transferability of Mode-Destination Models, *Transportation Research Record*, 2175, pp. 74-83.
- J29** Hess, S., Rose, J.M. & Polak, J.W. (2010), Non-trading, lexicographic and inconsistent behaviour in stated choice data, *Transportation Research Part D*, 15(7), pp. 405-417.
- J28** Hess, S., Bolduc, D. & Polak, J.W. (2010), Random covariance heterogeneity in discrete choice models, *Transportation*, 37(3), pp. 391-411.
- J27** Hess, S. (2010), Conditional parameter estimates from Mixed Logit models: distributional assumptions and a free software tool, *Journal of Choice Modelling*, 3(2), pp. 134-152.
- J26** Hess, S. (2010), Evidence of passenger preferences for specific types of airports, *Journal of Air Transport Management*, 16(4), pp. 191-195.

- J25** Hess, S. & Hensher, D.A. (2010), Using conditioning on observed choices to retrieve individual-specific attribute processing strategies, *Transportation Research Part B*, 44(6), pp. 781-790.
- J24** Fosgerau, M. & Hess, S. (2009), A comparison of methods for representing random taste heterogeneity in discrete choice models, *European Transport* 42, pp. 1-25.
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- B12** Hess, S. & Chorus, C. (2015), Utility Maximisation and Regret Minimisation: A Mixture of a Generalisation, in Rasouli, S. & Timmermans, H. (eds), *Bounded Rational Choice Behaviour: Applications in Transport*, chapter 2, pp. 31-48, Emerald, Bingley.
- B11** Hess, S. (2014), Latent class structures: taste heterogeneity and beyond, in Hess, S. & Daly, A.J. (Eds.), *Handbook of Choice Modelling*, chapter 14, pp. 311-330, Edward Elgar publishers, Cheltenham.
- B10** Marsden, G.M. & Hess, S. (2011), The scope for and potential impacts of the adoption of electric vehicles in UK surface transport, *The Future of Electricity Demand*. In: Jamasb, T. and Pollitt, M. (Eds.), *Electricity and Heat Demand in a Low-Carbon World: Customers, Citizens and Loads*, pp. 212-230, Cambridge University Press
- B9** Abou-Zeid, M., Ben-Akiva, M., Bierlaire, M., Choudhury, C., Hess, S. (2010), Attitudes and Value of Time Heterogeneity. In: Van de Voorde, E., Vanellander, T. (Eds.), *Applied Transport Economics - A Management and Policy Perspective*. De Boeck Publishing, pp.523-545.
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- B5** Campbell, D., Hess, S., Scarpa, R. & Rose, J.M. (2010), Accommodating Coefficient Outliers in Discrete Choice Modelling: A Comparison of Discrete and Continuous Mixing Approaches, in Hess, S. & Daly, A., *Choice Modelling: the state-of-the-art and the state-of-practice; Proceedings from the Inaugural International Choice Modelling Conference*, Emerald, Bingley, pp. 331-352.
- B4** Hess, S. (2010), Theory and practice in modelling air travel choice behaviour, in Postorino, M.N. (ed), *Regional airport development*, Wessex Institute of Technology Press, Southampton, pp. 109-126.
- B3** Hess, S. & Polak, J.W. (2009), Mixed Logit Modelling of Parking Type Choice Behaviour, in Brian Sloboda (ed), *Transportation Statistics*, J.D. Ross Publishing, pp. 77-102.
- B2** Hess, S., Polak, J.W. & Bierlaire, (2005), Functional approximations to alternative-specific constants in time-period choice-modelling, in H.S.Mahmassani (ed.), *Transportation and Traffic Theory: Flow, Dynamics and Human Interaction*, Proceedings of the 16<sup>th</sup> International Symposium on Transportation and Traffic Theory, Elsevier, Amsterdam, chapter 28, pp. 545-564.
- B1** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Capturing taste heterogeneity and correlation structure with Mixed GEV models, in Scarpa, R. & Alberini, A. (eds.), *Applications of Simulation Methods in Environmental and Resource Economics*, Springer Publisher, Dordrecht, The Netherlands, chapter 4, pp. 55-76.

### **Peer reviewed conference papers**

#### **Transportation Research Board Annual Meeting**

- T91** Hess, S., Murphy, P., Le, H. & Leong, W. (2017), Estimation of new monetary valuations of travel time, quality of travel and safety for Singapore, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.



- T90** Hess, S., Beck, M. & Crastes dit Sourd, R. (2017), Can a better model specification avoid the need to move away from random utility maximisation? , 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T89** Calastri, C., Hess, S., Daly, A., Maness, M., Kowald, M. & Axhausen, K. (2017), Modelling Contact Mode and Frequency of Interactions with Social Network Members Using Multiple Discrete-Continuous Extreme Value Model, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T88** Calastri, C., Hess, S. & Carrasco, J.A. (2017), Incorporating the Social Dimension in Choice of Activity Type and Duration: Application of Multiple Discrete-Continuous Extreme Value Model, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T87** Calastri, C., Hess, S., Choudhury, C., Daly, A.J., & Gabrielli, L. (2017), Developing Mode Choice Models Using Semi-ubiquitous Data Sources: Case Study Using Smartphone-Based GPS Survey from Italy, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T86** Beck, M. & Hess, S. (2017), Stability of Preferences and Attitudes: Hybrid Model of Air Travel Preferences at Two Different Points in Time, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T85** Hancock, T., Hess, S. & Choudhury, C. (2017), Expanding Capabilities of Decision Field Theory to Complement Random Utility Models of Travel Mode Choice, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T84** Capurso, M., Hess, S. & Dekker, T. (2017), Modeling Consideration in Mode Choice: Application on Rome-Milan Corridor, Italy, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T83** Daly, A.J., Dekker, T. & Hess, S. (2017), Dummy coding vs effects coding for categorical variables in choice models: clarifications and extensions, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T82** Hess, S., Börjesson, M. & Daly, A.J. (2017), Critical Appraisal of Use of Simple Time-Money Trade-Offs for Appraisal Value of Time Measures, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T81** Crastes dit Sourd, R., Börjesson, M., Hess, S. & Hensher, D. (2017), Should Transport Analysts Worry About Incentive Compatibility? , 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T80** Bwambale, A., Choudhury, C. & Hess, S. (2017), Modelling Trip Generation Using Mobile Phone Data: A Latent Demographics Approach, 96<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T79** Hess, S. & Spitz, G. (2016), How much do attitudes and values matter in mode choice?, 95<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T78** Hess, S. & Börjesson, M. (2016), Understanding Attitudes Toward Congestion Pricing: Latent Variable Investigation with Data from Four Cities, 95<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T77** Ehreke, I., Crastes dit Sourd, R., Beck, M., Hess, S., Axhausen, K.W., Holz-Rau, C., Scheiner, J. (2016), A Dynamic Approach to Long Term Mobility Decisions in the Life Course, 95<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T76** Hess, S., Daly, A.J., Dekker, T., Ojeda Cabral, M., Batley, R.P. (2016), Specification and Estimation of Behavioral Models for the 2015 UK Value of Time Study, 95<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T75** Beck, M., Ojeda Cabral, M., Ehreke, I. & Hess, S. (2016), Valuing Travel Time Savings: Case of Short-Term or Long-Term Choices?, 95<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T74** Outwater, M., Bradley, M., Ferdous, N., Bhat, C., Pendyala, R., Hess, S., Daly, A. & LaMondia, J. (2015), Tour-Based National Model System to Forecast Long-Distance Passenger Travel in the United States, 94<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.

- T73** Dekker, T., Hess, S. & van Cranenburgh (2015), Indirect Inference for the Application of Random Regret Minimization to Large-Scale Travel Demand, 94<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T72** Cabral, M., Hess, S. & Batley, R. (2015), The Value of Travel Time: Random Utility versus Random Valuation, 94<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T71** Beck, M. & Hess, S. (2015), Willingness to Accept Longer Commutes for Better Salaries: Understanding the Differences Within and Between Couples, 94<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T70** Hess, S. & Chorus, C. (2015), Utility Maximization and Regret Minimization: Mixture of a Generalization, 94<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T69** Ehreke, I., Hess, S., Weis, C. & Axhausen, K.W. (2015), Reliability in the German Value-of-Time Study, 94<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T68** Giergiczny, M., Hess, S., Dekker, D., Chintakayala, P.K. (2014), Testing Consistency Between Choices in Best-Worst Surveys, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T67** Hess, S., Quddus, M.A., Rieser-Schüssler, N. & Daly, A.J. (2014), Developing Advanced Route Choice Models for Heavy Goods Vehicles Using GPS Data, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T66** Hess, S. & Stathopoulos, A. (2014), Linking Decision Process to Indicators of Real-World Perceptions in a Latent Variable Latent Class Approach, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T65** Daly, A.J., Hess, S. & Dekker, T. (2014), Practical Solutions for Sampling Alternatives in Large-Scale Models, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T64** Dumont, J., Giergiczny, M. & Hess, S. (2014), Individual-Level Models Versus Sample-Level Models: Contrasts and Mutual Benefits, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T63** Dekker, T., Hess, S., Arentze, T.A. & Chorus, C. (2014), Incorporating Needs Satisfaction and Regret Minimization in Discrete Choice Model of Leisure Activities, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T62** Hess, S., Beck, M. & Chorus, C. (2014), Contrasts Between Utility Maximization and Regret Minimization in the Presence of Opt-Out Alternatives, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T61** Fu, Q., Liu, R. & Hess, S. (2014), A Bayesian modelling framework for individual passengers' probabilistic route choices: A case study on the London Underground, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T60** Outwater, M.L., Bhat, C.R., Pendyala, R.M., Hess, S., Sana, B., Ferdous, N., Woodford, W. & Sidharthan, R. (2014), TCRP Project H-37: Characteristics of Premium Transit Services That Affect Mode Choice-Key Findings and Results, 93<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T59** Hess, S., Stathopoulos, A., Campbell, D., O'Neill, V. & Caussade, S. (2013), It's not that I don't care, I just don't care very much: confounding between attribute non-attendance and taste heterogeneity, 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T56** Batley, R.P. & Hess, S. (2013), Simple Test for Identifying Violations of Random Utility Model, 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.

- T55** Hess, S., Shires, J.D. & Jopson, A. (2013), Accommodating Underlying Pro-environmental Attitudes in a Rail Travel Context: Application of a Latent Variable Latent Class Specification, 92<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T54** Hess, S. (2012), Impact of Unimportant Attributes in Stated-Choice Surveys, 91<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T50** O’Neill, V., Hess, S. & Campbell, D. (2012), I’ll Take the Money and You Can Have the Short Commute: Study of Household-Level Work and Travel Decisions, 91<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T48** Arellana, J., Daly, A.J., Hess, S., Ortúzar, J. de D. & Rizzi, L. (2012), Developing surveys for the study of departure time choice: a two-stage efficient design approach, 91<sup>st</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T47** Abou Zeid, M., Ben-Akiva, M.E., Bierlaire, M., Choudhury, C.F. & Hess, S. (2011), Attitudes and Value of Time Heterogeneity, 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T45** Rose, J.M., Hess, S., Bliemer, M.C.J. & Daly, A. (2011), Impact of Varying Number of Repeated Choice Observations on Mixed Multinomial Logit Model, 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T44** Orr, S., Hess, S. & Sheldon, R. (2011), Consistency and Fungibility of Monetary Valuations in Transport, 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T43** Rose, J.M., Hess, S. & Collins, A. (2011), Impact of Violations of Model Assumptions: Role of Lexicography, Inconsistent Choices, and Changing Preferences in Model Estimation, 90<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T37** Hess, S., Ryley, T., Davison, L. & Adler, T. (2010), Improving Quality of Demand Forecasts Through Cross-Nested Logit: Stated-Choice Case Study of Airport, Airline, and Access Mode Choice, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.

- T36** Hess, S., Rose, J.M. & Bain, S. (2010), Random Scale Heterogeneity in Discrete Choice Models, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T33** Chorlton, K., Hess, S., Jamson, S. & Wardman, M. (2010), Deal or No Deal: Can Incentives Encourage Widespread Adoption of Intelligent Speed Adaptation Devices?, 89<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- T31** Hess, S. & Daly, A. (2009), Calculating errors for measures derived from choice modelling estimates, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T30** Hess, S. & Rose, J.M. (2009), Should reference alternatives in pivot design SC surveys be treated differently?, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T29** Hess, S., Ben-Akiva, M., Gopinath, D. & Walker, J. (2009), Taste heterogeneity, correlation and elasticities in latent class choice models, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T28** Hess, S. & Hensher, D.A. (2009), Using conditioning on observed choices to retrieve individual-specific attribute processing strategies, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T27** Hess, S. (2009), Evidence of passenger preferences for specific types of airports, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T26** Collins, A.T., Rose, J.M. & Hess, S. (2009), Search based internet surveys: airline stated choice, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T25** Rose, J.M. & Hess, S. (2009), Dual response choices in pivoted stated choice experiments, 88<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T24** Polak, J.W., Hess, S. & Liu, X. (2008), Characterising Heterogeneity in Attitudes to Risk in Expected Utility Models of Mode and Departure Time Choice, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T23** Hess, S., Smith, C. Falzarano, C.S. & Stubits, J. (2008), Measuring Effects of Different Experimental Designs and Survey Administration Methods Using Atlanta Managed-Lanes Stated-Preference Survey, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T22** Hess, S., Erath, A. & Axhausen, K.W. (2008), Joint Valuation of Travel Time Savings Estimation on Four Separate Swiss Data , 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T21** Hess, S. & Rose, J.M. (2008), Intra-respondent Taste Heterogeneity in Instantaneous Panel Surveys, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T20** Hess, S., Rose, J.M. & Polak, J.W. (2008), Nontrading, Lexicographic, and Inconsistent Behaviour in Stated-Preference Choice , 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T19** Mabit, S., Hess, S. & Caussade, S. (2008), Correlation and Willingness-to-Pay Indicators in Transport Demand Modelling, 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T18** Hess, S. (2007), Posterior analysis of random taste coefficients in air travel choice behaviour modelling, 86<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
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- preference data, 86<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T15** Bliemer, M.C.J., Rose, J.M. & Hess, S. (2007), Approximation of Bayesian Efficiency in Experimental Choice Designs, 86<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T14** Axhausen, K.W., Hess, S., König, A., Abay, G., Bates, J.J. & Bierlaire, M. (2007), State of the art estimates of the Swiss value of travel time savings, 86<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C.
- T13** Hess, S., Bolduc, D. & Polak, J.W. (2006), Random Covariance Heterogeneity in Discrete Choice Models, 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T12** Hess, S., Adler, T. & Polak, J.W. (2006), Modelling Airport and Airline Choice Behaviour with Stated Preference Survey Data, 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T11** Hess, S., Axhausen, K.W. & Polak, J.W. (2006), Distributional Assumptions in Mixed Logit Models, 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T10** Hess, S. & Polak, J.W. (2006), Cross-Nested Logit Modelling of Combined Choice of Airport, Airline, and Access Mode, 85<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T9** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Estimation of value of travel-time savings using Mixed Logit models, 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T8** Hess, S. & Polak, J.W. (2005), Accounting for random taste heterogeneity in airport-choice modelling, 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T7** Bastin, F., Cirillo, C. & Hess, S. (2005), Evaluation of advanced optimisation methods for estimating Mixed Logit models, 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T6** Hess, S., Polak, J.W. & Daly, A.J. (2005), Flexible Substitution Patterns in Models of Mode and Time of Day Choice: New evidence from the UK and the Netherlands, 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T5** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Capturing taste heterogeneity and correlation structure with Mixed GEV models, 84<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T4** Hess, S., Train, K.E. & Polak, J.W. (2004), On the use of randomly shifted and shuffled uniform vectors in the estimation of a Mixed Logit model for vehicle choice, 83<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T3** Hess, S. & Polak, J.W. (2004), Mixed Logit estimation of parking type choice, 83<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T2** Hess, S. (2004), An analysis of the effects of speed limit enforcement cameras with differentiation by road type and catchment area, 83<sup>rd</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- T1** Hess, S. & Polak, J.W. (2003), An Analysis of the Effects of Speed Limit Enforcement Cameras on Accident Rates, 82<sup>nd</sup> Annual Meeting of the Transportation Research Board, Washington D.C.
- International Choice Modelling Conference**
- IC44** Smith, B., Oлару, D., Hess, S., Beck, M. & Choudhury, C. (2017), Dwelling and Residential Location Choice Models on Complete Market Data, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC43** Hess, S. (2017), A model averaging approach for incorporating taste, decision rule and model structure heterogeneity, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC42** Palma, D., Ortuzar, J.d.D., Rizzi, L.I. & Hess, S. (2017), An incentive-compatible experiment to model wine preferences considering extrinsic and intrinsic attributes, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC41** Capurso, M., Hess, S. & Dekker, T. (2017), Modelling awareness and consideration in mode choice: an application on the Rome-Milan corridor, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.

- IC40** Bwambale, A., Choudhury, C., Hess, S. (2017), Modelling route choice using mobile phone data: a case study of Senegal, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC39** Tijong, J., Giergiczny, M., Czajkowski, M. & Hess, S. (2017), Disentangling status quo bias and zero-price effect for more robust estimation of welfare changes, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC38** Guevara, C.A. & Hess, S. (2017), Using Revealed-Preferences Sampled Choice-sets in Stated-Preference Surveys, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC37** Song, F., Hess, S. & Dekker, T. (2017), Modelling the role and impact of variety-seeking on mode choice behaviour in the context of air-HSR intermodality, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC36** Giergiczny, M. & Hess, S. (2017), Using advanced choice models to study animal behavior, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC35** Haque, M., Choudhury, C. & Hess, S. (2017), Reference-dependent choice set formation for modelling of long-term and medium-term residential location choices, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC34** Choudhury, C. & Hess, S. (2017), A Peek at the Future: Capturing the Anticipation Effects in Dynamic Discrete Choice Models, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC33** Dekker, T., Calastri, C., Daly, A.J. & Hess, S. (2017), Revisiting the MDCEV utility function: origins, weak complementarity, minimum consumption and efficient welfare measurement, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC32** Calastri, C., Hess, S. Carrasco, J.A. & Choudhury, C. (2017), Maintaining social contacts over time: the role of life-course events, personality traits and tie strength, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC31** Crastes dit Sourd, R., Beck, M., Choudhury, C., Dekker, T. & Hess, S. (2017), Modelling state dependence in rare life course events: Introducing the Accumulative Hybrid Choice Skew Multivariate Probit, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC30** Paschalidis, E., Choudhury, C. & Hess, S. (2017), Investigating the effects of stress on choices - Evidence from gap acceptance decisions of drivers in a simulator experiment, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC29** Hancock, T., Hess, S. & Choudhury, C. (2017), Decision field theory: improvements to current methodology and contrasts with standard choice modelling techniques, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC28** Ibraimovic, T., Hess, S., Zuidgeest, M. & Moyo, H. (2017), Ethnic segregation and residential location choice in Cape Town, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC27** Calastri, C., Hess, S., Daly, A.J., Pinjari, A. & Carrasco, J.A. (2017), Accommodating product-specific upper limits on consumption in multiple discrete-continuous extreme value (MDCEV) models: an application to time-use data, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC26** de Tremerie, L., Hess, S. & de Jong, G. (2017), A hybrid DCM application in freight mode choice set in the Port of Ghent (Belgium): do environmental attitudes matter? , 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC25** de Tremerie, L., de Jong, G., Hess, S. & Beck, M. (2017), Using discrete choice modelling techniques in a mixed methods methodological framework: a case study on freight shippers in Belgium, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC24** Spitz, G. & Hess, S. (2017), East Coast Urbanites vs West Coast hippies: understanding differences in attitudes towards public transport, 5<sup>th</sup> International Choice Modelling Conference, Cape Town.
- IC23** Hess, S., Daly, A.J., Bradley, M., Outwater, M. & Dekker, T. (2015), Testing the Use of Indirect Influence for Large Scale Modelling, 4<sup>th</sup> International Choice Modelling Conference, Austin, Texas.
- IC22** Fox, J.B., Hess, S. & Daly, A.J. (2015), The Temporal Transferability of Mixed Logit Mode-Destination Choice Models, 4<sup>th</sup> International Choice Modelling Conference, Austin, Texas.
- IC21** Daly, A.J., Hess, S., Lu, H. & Rohr, C. (2015), Modelling the Impact of Multi-Buy Promotions on Alcohol Purchasing Behaviour: A Comparison of Estimation and

- Implementation of Sample Selection Models and the Multiple Discrete-Continuous Extreme Value (MCDEV) Model, 4<sup>th</sup> International Choice Modelling Conference, Austin, Texas.
- IC20** Bradley, M., Hess, S., Adler, T.J. & Fowler, M. (2015), The Influence of Anchoring on Value of Time Estimation in Stated Preference Experiments, 4<sup>th</sup> International Choice Modelling Conference, Austin, Texas.
- IC19** Hess, S., Beck, M. & Chorus, C. (2013), Finding your way out: utility maximisation and regret minimisation in the presence of opt out alternatives, Third International Choice Modelling Conference, Sydney.
- IC18** Giergiczny, M., Chintakayala, P., Dekker, T. & Hess, S. (2013), Consistency (or lack thereof) between choices in best-worst surveys, Third International Choice Modelling Conference, Sydney.
- IC17** Mariel, P., Meyerhof, J. & Hess, S. (2013), Using a latent variable choice model to capture heterogeneous attitudes and preferences toward the landscape externalities of wind power generation, Third International Choice Modelling Conference, Sydney.
- IC16** Hoyos, D., Mariel, P. & Hess, S. (2013), Environmental Value Orientations in Discrete Choice Experiments: A Latent Variables Approach, Third International Choice Modelling Conference, Sydney.
- IC15** Hess, S., Sanko, N., Daly, A.J. & Dumont, J. (2013), A latent variable approach to dealing with missing or inaccurately measured variables: the case of income, Third International Choice Modelling Conference, Sydney.
- IC14** Vuk, V., Bowman, J.L., Hess, S. & Daly, A.J. (2013), Impact of household time constraints on person travel demand: the notion of family priority time in activity based models, Third International Choice Modelling Conference, Sydney.
- IC13** Hess, S., Giergiczny, M. & Dumont, J. (2013), Individual-level models vs. random coefficients sample level models: contrasts and mutual benefits, Third International Choice Modelling Conference, Sydney.
- IC12** Klojgaard, M. & Hess, S. (2013), Understanding the role of practitioners' and patients' perceptions in treatment choices in the face of limited clinical evidence: A Hybrid Choice Model approach in Health Economics, Third International Choice Modelling Conference, Sydney.
- IC11** Dumont, J., Hess, S., Daly, A.J. & Ferdous, N. (2013), The use of the Multiple Discrete Continuous Extreme Value modeling framework when the budget is latent: two consumer package good examples, Third International Choice Modelling Conference, Sydney.
- IC10** Dekker, T., Hess, S., Brouwer, R. & Hofkes, M. (2013), Implicitly or explicitly uncertain? An integrated choice and latent variable model to address decision certainty in stated choice experiments, Third International Choice Modelling Conference, Sydney.
- IC9** Hess, S. & Stathopoulos, A. (2011), Linking response quality to survey engagement: a combined random scale and latent variable approach, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- IC8** Hess, S., Stathopoulos, A. & Daly, A.J. (2011), Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- IC7** Dumont, J., Adler, T.J., Hess, S. & Neafsey, W.C. (2011), Using individual-level parameter estimates to investigate evidence of lexicographic behavior and heterogeneity in information processing strategies, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- IC6** Orr, S., Hess, S. & Sheldon, R. (2011), Consistency and Fungibility of Monetary Valuations in Transport: an empirical analysis of framing and mental accounting effects, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- IC5** O'Neill, V.L., Hess, S., Campbell, D. & Hutchinson, G. (2011), Incorporating latent attitudes in analysing food choices, Second International Choice Modelling Conference, Oulton Hall, Leeds.
- IC4** Connors, R., Hess, S. & Daly, A. (2011), On the computation of probit choice probabilities, Second International Choice Modelling Conference, Oulton Hall, Leeds.

- IC3** Hess, S., Ben-Akiva, M., Gopinath, D. & Walker, J. (2009), Taste heterogeneity, correlation and elasticities in latent class choice models, inaugural International Choice Modelling Conference, Harrogate.
- IC2** Campbell, D., Hess, S., Scarpa, R. & Rose, J.M. (2009), Using finite mixture models to accommodate preference outliers in discrete choice modelling, inaugural International Choice Modelling Conference, Harrogate.
- IC1** Chintakayala, P.K., Hess, S., Rose, J.M. & Wardman, M.R. (2009), Effects of stated choice design dimensions on estimates, inaugural International Choice Modelling Conference, Harrogate.

**Other**

- OR3** Hess, S., Polak, J.W. & Bierlaire, (2005), Functional approximations to alternative-specific constants in time-period choice-modelling, Transportation and Traffic Theory: Flow, Dynamics and Human Interaction, 16<sup>th</sup> International Symposium on Transportation and Traffic Theory, College Park, MA.
- OR2** Hess, S. & Polak, J.W. (2004), An analysis of parking behaviour using discrete choice models calibrated on SP datasets, *R*-sessions, European Regional Science conference, Porto.
- OR1** Hess, S. & Polak, J.W. (2003), An alternative method to the scrambled Halton sequence for removing correlation between standard Halton sequences in high dimensions, *R*-sessions, European Regional Science Conference, Jyväskylä.

**Papers from conferences with abstract review only****Air Transport Research Society Annual Meeting**

- AT4** Hess, S. (2007), Reference Dependence in SP Air Travel Data, 11<sup>th</sup> Air Transport Research Society World Conference, Berkeley, CA, June 2007.
- AT3** Hess, S., Adler, T. & Polak, J.W. (2005), Computing Willingness to pay indicators for air travellers from SP survey data, 9<sup>th</sup> Air Transport Research Society Word Conference, Rio de Janeiro.
- AT2** Battersby, B. & Hess, S. (2005), Accounting for seat capacity and availability constraints in modelling air-travel choice behaviour, 9<sup>th</sup> Air Transport Research Society Word Conference, Rio de Janeiro.
- AT1** Hess, S. (2004), Mixed Logit modelling of airport choice in the San Francisco Bay area, 8<sup>th</sup> Air Transport Research Society Word Conference, Istanbul.

**European Regional Science Conference**

- ER4** Hess, S., Bolduc, D. & Polak, J.W. (2005), Random Covariance Heterogeneity in Discrete Choice Models, European Regional Science Conference, Amsterdam.
- ER3** Daly, A., Hess, S., Polak, J.W., Hyman, G. & Rohr, C. (2005), Modelling departure time and mode choice, European Regional Science Conference, Amsterdam.
- ER2** Hess, S. (2005), Analysing air travel choice behaviour in the Greater London area, European Regional Science Conference, Amsterdam.
- ER1** Hess, S. (2004), An analysis of airport-choice behaviour using the Mixed Multinomial Logit model, European Regional Science Conference, Porto.

**European Transport Conference**

- ET48** Hess, S., Stathopoulos, A. & Daly, A.J. (2011), Allowing for heterogeneous decision rules in discrete choice models: an approach and four case studies, European Transport Conference, Glasgow, October 2011.
- ET47** Johnson, D., Matthews, B., Hess, S. & Bielefeldt, C. (2011), An indirect flight from my local airport or a direct flight from an alternative airport: how does surface access influence the decision?, European Transport Conference, Glasgow, October 2011.
- ET46** Hess, S., Daly, A.J., Hensher, D.A. & Adler, T.J. (2011), The role of constants in WTP computation, European Transport Conference, Glasgow, October 2011.
- ET45** Stathopoulos, A. & Hess, S. (2011), Revisiting reference point formation, gains-losses asymmetry and non-linear sensitivity: one size does not fit all!, European Transport Conference, Glasgow, October 2011.



- ET44** Hess, S., Stathopoulos, A., Campbell, D., O'Neill, V. & Caussade, S. (2011), It's not that I don't care, I just don't care very much: confounding between attribute non-attendance and taste heterogeneity, European Transport Conference, Glasgow, October 2011.
- ET43** Hess, S. & Hensher, D.A. (2011), Making use of respondent reported processing information to understand attribute importance: a latent variable scaling approach, European Transport Conference, Glasgow, October 2011.
- ET42** Dumont, J., Adler, T.J., Hess, S. & Neafsey, W.C. (2011), Using individual-level parameter estimates to investigate evidence of lexicographic behaviour and heterogeneity in information processing strategies, European Transport Conference, Glasgow, October 2011.
- ET41** Hess, S. & Stathopoulos, A. (2010), Linking response quality to survey engagement: a combined random scale and latent variable approach, European Transport Conference, Glasgow, October 2010.
- ET40** Hess, S. (2010), Customising surveys to accommodate heterogeneous information processing strategies, European Transport Conference, Glasgow, October 2010.
- ET39** Hess, S., Hensher, D.A. & Daly, A. (2010), Not bored yet – revisiting respondent fatigue in stated choice experiments, European Transport Conference, Glasgow, October 2010.
- ET38** Gibson, V., Hess, S., Campbell, D. & Beharry-Borg, N. (2010), Individual versus intra-household decision making: who really wears the trousers? , European Transport Conference, Glasgow, October 2010.
- ET37** Orr, S., Hess, S. & Sheldon, R. (2010), Consistency and Fungibility of Monetary Valuations in Transport, European Transport Conference, Glasgow, October 2010.
- ET36** Daly, A.J. & Hess, S. (2010), Simple Approaches for Random Utility Modelling with Panel Data, European Transport Conference, Glasgow, October 2010.
- ET35** Caussade, S. & Hess, S. (2010) Customers' Willingness To Pay For Intermediate Cabins In The Airline Industry: A Trade-Off Between Improved Service And Frequent Flier Benefits, European Transport Conference, Glasgow, October 2010.
- ET34** Campbell, D. & Hess, S. (2010) Preference heterogeneity and attribute non-attendance: can they be separated?, European Transport Conference, Glasgow, October 2010.
- ET33** Hess, S., Rose, J.M. & Bain, S. (2009), Random scale heterogeneity in discrete choice models, European Transport Conference, Noordwijkerhout, October 2009.
- ET32** Hess, S. & Rose, J.M. (2009), Some lessons in stated choice survey design, European Transport Conference, Noordwijkerhout, October 2009.
- ET31** Hess, S., Fowler, M., Adler, T. & Bahreinian, A. (2009), A joint model for vehicle type and fuel type, European Transport Conference, Noordwijkerhout, October 2009.
- ET30** Hess, S. & Adler, T. (2009), An analysis of trends in air travel behaviour using four related SP datasets collected between 2000 and 2005, European Transport Conference, Noordwijkerhout, October 2009.
- ET29** Daly, A., Hess, S. & Train, K. (2009), Assuring Finite Moments For Willingness To Pay In Random Coefficient Models, European Transport Conference, Noordwijkerhout, October 2009.
- ET28** Chorlton, K., Hess, S., Jamson, S. & Wardman, M. (2009), An investigation into the demand for Intelligent Speed Adaptation (ISA) systems in the United Kingdom, European Transport Conference, Noordwijkerhout, October 2009.
- ET27** Rose, J.M., Hess, S., Bliemer, M. & Daly, A. (2009), The impact of varying the number of repeated choice observations on the mixed multinomial logit model, European Transport Conference, Noordwijkerhout, October 2009.
- ET26** Chintakayala, P., Hess, S. & Rose, J.M. (2009), Using second preference choices in pivot surveys as a means of dealing with inertia, European Transport Conference, Noordwijkerhout, October 2009.
- ET25** Caussade, S. & Hess, S. (2009), An investigation into air travellers willingness to pay for ancillary service attributes within a branded fare context, European Transport Conference, Noordwijkerhout, October 2009.
- ET24** Campbell, D. & Hess, S. (2009), Outlying sensitivities in discrete choice data: causes, consequences and remedies, European Transport Conference, Noordwijkerhout, October 2009.

- ET23** Hess, S. & Daly, A. (2008), Calculating errors for measures derived from choice modelling estimates, European Transport Conference, Noordwijkerhout, October 2008.
- ET22** Hess, S., Ben-Akiva, M., Gopinath, D. & Walker, J. (2008), Some developments in latent class modelling, European Transport Conference, Noordwijkerhout, October 2008.
- ET21** Hess, S. & Train, K.E. (2008), Approximation issues in simulation-based estimation of random coefficients models, European Transport Conference, Noordwijkerhout, October 2008.
- ET20** Hess, S., Rose, J.M. & Polak, J.W. (2008), Approaches for dealing with non-trading, lexicographic and inconsistent behaviour in stated choice data, European Transport Conference, Noordwijkerhout, October 2008.
- ET19** Chintakayala, P.K., Rose, J.M., Hess, S. & Wardman, M. (2008), UK experience with an advanced survey design for value of time studies, European Transport Conference, Noordwijkerhout, October 2008.
- ET18** Polak, J.W. & Hess, S. (2007), Expected utility and non-expected utility models of risky choice: a new framework and estimation results, European Transport Conference, Noordwijkerhout, October 2007.
- ET17** Hess, S., Erath, A. & Axhausen, K.W. (2007), Reducing bias in value of time estimates by joint estimation on multiple datasets: a case study in Switzerland, European Transport Conference, Noordwijkerhout, October 2007.
- ET16** Collins, A., Hess, S. & Rose, J.M. (2007), Stated Preference survey design in air travel choice behaviour modelling, European Transport Conference, Noordwijkerhout, October 2007.
- ET15** Hess, S. & Rose, J.M. (2007), Obtaining further insights into taste heterogeneity by conditioning on observed choices, European Transport Conference, Noordwijkerhout, October 2007.
- ET14** Hess, S. & Rose, J.M. (2007), Intra-respondent taste heterogeneity in instantaneous panel data, European Transport Conference, Noordwijkerhout, October 2007.
- ET13** Hess, S., Rose, J.M., & Hensher, D.A. (2006), Asymmetrical Preference Formation in Willingness to Pay Estimates in Discrete Choice Models, European Transport Conference, Strasbourg.
- ET12** Hess, S. (2006), Posterior analysis of random taste coefficients in air travel choice behaviour modelling, European Transport Conference, Strasbourg.
- ET11** Mabit, S., Caussade, S. & Hess, S. (2006), Representation of taste heterogeneity in willingness-to-pay indicators: past mistakes, state-of-the-art, and future directions, European Transport Conference, Strasbourg.
- ET10** Fosgerau, M. & Hess, S. (2006), Competing methods for representing random taste heterogeneity in discrete choice models, European Transport Conference, Strasbourg.
- ET9** Hess, S., Polak, J.W. & Bierlaire, M. (2006), Confounding between substitution patterns and random taste heterogeneity, European Transport Conference, Strasbourg.
- ET8** Hess, S. & Polak, J.W. (2005), Cross-Nested Logit modelling of the combined choice of airport, airline and access-mode, European Transport Conference, Strasbourg.
- ET7** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Discrete mixtures of random utility models, European Transport Conference, Strasbourg.
- ET6** Hess, S., Bolduc, D. & Polak, J.W. (2005), Random Covariance Heterogeneity in Discrete Choice Models, European Transport Conference, Strasbourg.
- ET5** Rohr, C., Daly, A., Hess, S., Bates, J., Polak, J.W. & Hyman, G. (2005), Modelling Time Period Choice: Experience from the UK and the Netherlands, European Transport Conference, Strasbourg.
- ET4** Hess, S. (2004), A model for the joint analysis of airport, airline, and access-mode choice for passengers departing from the San Francisco Bay area, European Transport Conference, Strasbourg.
- ET3** Hess, S., Bierlaire, M. & Polak, J.W. (2004), Development and Application of a Mixed Cross-Nested Logit model, European Transport Conference, Strasbourg.
- ET2** Hess, S., Polak, J.W., Daly, A. & Hyman, G. (2004), Departure Time and Mode Choice, European Transport Conference, Strasbourg.

- ET1** Hess, S., Polak, J.W., Daly, A.J. (2003), On the performance of shuffled Halton sequences in the estimation of discrete choice models, European Transport Conference, Strasbourg.
- International Association of Travel Behaviour Research**
- IA20** Ojeda-Cabral, M., Batley, R.P. & Hess, S. (2015), Understanding individuals' valuations of travel time: the role of stated choice design variables, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA19** Fox, J.B., Hess, S. & Daly, A.J. (2015), Temporal Transferability of Models of Mode and Destination Choice, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA18** Börjesson, M. & Hess, S. (2015), Understanding attitudes towards congestion pricing: a latent variable investigation with data from four cities, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA17** Spitz, G.M. & Hess, S. (2015), How much do attitudes and values matter in mode choice?, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA16** Bradley, M., Hess, S., Adler, T.J. & Fowler, M. (2015), The Influence of Anchoring on Value of Time Estimation in Stated Preference Experiments, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA15** Ehreke, I., Hess, S. & Axhausen, K.W. (2015), The German value of time and value of reliability study: Comparing alternative model formulations, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA14** Calastri, C., Choudhury, C. & Hess, S. (2015), Modelling mode choice with "messy" GPS data: a case from Italy, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA13** Hess, S., Bliemer, M., Hibberd, D. & Choudhury, C. (2015), Understanding lane changing behaviour leading up to roadworks on motorways: a latent plan application using combined simulator experiments and stated preference surveys, 14<sup>th</sup> International Conference on Travel Behaviour Research, Windsor.
- IA12** Hess, S., Daly, A.J., Dumont, J. & Sanko, N. (2012), When explanatory variables are unobserved: the example of latent income, resource paper presentation at the 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA11** Hess, S., Collins, A.C. & Rose, J.M. (2012), Joint modelling of decision process and choice using data from an interactive stated choice survey on air travel behaviour, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA10** Hess, S. & Stathopoulos, A. (2012), Linking the decision process to underlying attitudes and perceptions: a latent variable latent class construct, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA9** Arellana, J., Daly, A.J., Hess, S., Ortúzar, J.de D. & Rizzi, L. (2012), The flexibility of departure time for work based trips: an integrated choice and latent variable approach, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA8** Dekker, T. & Hess, S. (2012), The limits of flexibility in controlling for heterogeneity in mixed multinomial logit models - an argument for using latent class models, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA7** Rose, J.M., Hess, S., Hensher, D.A. & Greene, W.H. (2012), The Generalised Multinomial Logit model: Misinterpreting scale and preference heterogeneity in discrete choice models or untangling the un-untangleable?, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA6** Fox, J.B., Daly, A.J., Hess, S. & Miller, E. (2012), Temporal Transferability of Models of Mode-Destination Choice for the Greater Toronto and Hamilton Area, 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA5** Batley, R.P. & Hess, S. (2012), A simple test for identifying violations of the Random Utility Model (RUM), 13<sup>th</sup> International Conference on Travel Behaviour Research, Toronto.
- IA4** Hess, S., Ben-Akiva, M., Gopinath, D., & Walker, J. (2009), Advantages of latent class choice models over continuous mixed logit models, 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur.

- IA3** Bonsall, P., Shires, J., & Hess, S. (2009), The value of simplicity: an investigation of travellers' response to simplified fare structures, 12<sup>th</sup> International Conference on Travel Behaviour Research, Jaipur.
- IA2** Hess, S., Bierlaire, M. & Polak, J.W. (2006), A systematic comparison of continuous and discrete mixture models, 11<sup>th</sup> International Conference on Travel Behaviour Research, Kyoto.
- IA1** Hess, S., Bolduc, D. & Polak, J.W. (2006), Random covariance heterogeneity in discrete choice models, 11<sup>th</sup> International Conference on Travel Behaviour Research, Kyoto.
- World Conference of Transportation Research**
- WT15** Daly, A., Hess, S. & Dekker, T. (2013), Transtools III: development of a new transport model for Europe – preliminary work on non-linearities and value of time inputs, 13<sup>th</sup> triennial WCTR conference, Rio de Janeiro.
- WT14** Daly, A., Hess, S. & Dekker, T. (2013), Sampling of alternatives for spatial choice modelling, 13<sup>th</sup> triennial WCTR conference, Rio de Janeiro.
- WT13** Daly, A., Hess, S., Patrui, B., Potoglou, D. & Rohr, C. (2010), Modelling the role of attitudes in eliciting individuals' preference across liberty, privacy and security, 12<sup>th</sup> triennial WCTR conference, Lisbon.
- WT12** Rose, J.M., Hess, S., Collins, A. & Bain, S. (2010), An analysis of the impact of non-compensatory behaviour of logit model estimation, 12<sup>th</sup> triennial WCTR conference, Lisbon.
- WT11** Hess, S., Fowler, M., Adler, T. & Bahreinian, A. (2010), A joint model for vehicle type and fuel type, 12<sup>th</sup> triennial WCTR conference, Lisbon.
- WT10** Stathopoulos, A. & Hess, S. (2010), Modelling multi-attribute reference dependence in a commuting choice experiment: does one size fit all?, 12<sup>th</sup> triennial WCTR conference, Lisbon.
- WT9** Daly, A. & Hess, S. (2010), Simple methods for panel data analysis, 12<sup>th</sup> triennial WCTR conference, Lisbon.
- WT8** Axhausen, K.W., Hess, S., König, A., Abay, G., Bates, J.J. & Bierlaire, M. (2007), Income and distance elasticities of values of travel time savings: New Swiss results, 11<sup>th</sup> triennial WCTR conference, Berkeley, CA.
- WT7** Hess, S., & Rose, J.M. (2007), Some lessons for working with repeated choice data, 11<sup>th</sup> triennial WCTR conference, Berkeley, CA.
- WT6** Hess, S. & Polak, J.W. (2007), Modelling air travel choice behaviour in Greater London, 11<sup>th</sup> triennial WCTR conference, Berkeley, CA.
- WT5** Hess, S., Rose, J.M., & Hensher, D.A. (2007), Asymmetrical Preference Formation in Willingness to Pay Estimates in Discrete Choice Models, 11<sup>th</sup> triennial WCTR conference, Berkeley, CA.
- WT4** Hess, S. (2007), Stated preference models for airport and airline choice with conditioning on observed choices, 11<sup>th</sup> triennial WCTR conference, Berkeley, CA.
- WT3** Bliemer, M.C.J., Rose, J.M. & Hess, S. (2007), Approximation of Bayesian Efficiency in Experimental Choice Designs, 11<sup>th</sup> triennial WCTR conference, Berkeley, CA.
- WT2** Hess, S. & Polak, J.W. (2004), On the use of Discrete Choice Models for Airport Competition with Applications to the San Francisco Bay area Airports, 10<sup>th</sup> triennial WCTR conference, Istanbul.
- WT1** Hess, S., Polak, J.W. & Bierlaire, M. (2004), Development of a Mixed Cross-Nested Logit Model with an Application to Mode Choice Modelling, 10<sup>th</sup> triennial WCTR conference, Istanbul.
- Other**
- O50** Palma, D., Hess, S., Guevara, C.A., Rizzi, L.I. & Ortuzar, J.d.D. (2017), When expensive is good: Modelling the wine repurchase decision, 13th International Conference of the Western Economic Association, Santiago de Chile
- O49** Palma, D., Ortuzar, J.d.D., Rizzi, L.I. & Hess, S. (2017), Modelling wine preferences: a choice experiment combining extrinsic (pre consumption) and intrinsic (post consumption) attributes, 13th International Conference of the Western Economic Association, Santiago de Chile

- O48** Capurso, M., Dekker, T. & Hess, S. (2016), Modelling awareness, consideration set and mode choice: An application to the Rome – Milan corridor, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O47** Ojeda Cabral, M., Zheng, J. & Hess, S. (2016), The role of the status quo on how people trade-off resources: an application to the time-money trade-off, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O46** Calastri, C., Hess, S., Choudhury, C., Daly, A.J. & Gabrielli, L. (2016), Estimation of value of travel time from GPS panel data with explicit choice set and consideration set generation, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O45** Crastes dit Sourd, R., Calastri, C., Hess, S., Scheiner, J. & Holz-Rau, C. (2016), Modelling anticipation and interrelations between long-term mobility decisions over the life course: a recursive multivariate probit approach, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O44** Dubernet, I., Crastes dit Sourd, R., Beck, M., Hess, S., Axhausen, K., Scheiner, J. & Holz-Rau, C. (2016), A dynamic approach to long term mobility decisions in the life course, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O43** Hancock, T., Hess, S. & Choudhury, C.F. (2016), Incorporating irrationalities in decision making into choice modelling: going beyond small changes from the tried and tested, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O42** Crastes dit Sourd, R., Zheng, J., Hess, S. & Ojeda Cabral, M. (2016), A behavioural mixing model exploring the relationship between response time and decision rules, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O41** Tjong, J., Dekker, T., Hess, S. & Ojeda Cabral, M. (2016), Considering latent money and time budgets in choice modelling, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O40** Bwambale, A., Choudhury, C.F. & Hess, S. (2016), Prediction of latent demographic groups from mobile phone data for transport modelling, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O39** Calastri, C., Hess, S., Daly, A.J., Maness, M., Kowald, M. & Axhausen, K.W. (2016), Modelling communication mode and frequency in an egocentric social network: an application of the MDCEV model, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O38** Pashalidis, E., Choudhury, C.F. & Hess, S. (2016), Development of an integrated car-following model combining driving simulator and video trajectory data, hEART 2016 – 5<sup>th</sup> Symposium of the European Association for Research in Transportation, Delft
- O37** Calastri, C., Hess, S. & Carrasco, J.A. (2016), Investigating the impact of soft factors on activities and travel: A case study from Concepcion, Chile, International Transport Economics (ITEA) Conference, Santiago de Chile
- O36** Calastri, C., Hess, S., Daly, A., Choudhury, C. & Gabrielli, L. (2016), Understanding mode choice from GPS panel data with consideration of environmental factors, International Transport Economics (ITEA) Conference, Santiago de Chile
- O35** Guevara, A. & Hess, S. (2016), The Impact of Presenting Endogenous Choice-sets in Stated Preference Surveys: A Proposed Correction Method, International Transport Economics (ITEA) Conference, Santiago de Chile
- O34** Hess, S., Daly, A.J., Dekker, T., Ojeda-Cabral, M. & Batley, R. (2016), From survey work to appraisal values: reporting on the 2014/2015 UK value of time study, International Transport Economics (ITEA) Conference, Santiago de Chile
- O33** Nadudvari, T., Liu, R. & Hess S. (2015), Modelling passengers' route choice behaviour on the London Underground, 47th Annual UTSG Conference, City University, London

- O32** Hess, S., Daly, A.J., Dekker, T., Cabral, M.O. & Batley, R.P. (2015), Specification and estimation of behavioural models for the 2015 UK value of time study, hEART 2015 – 4<sup>th</sup> Symposium of the European Association for Research in Transportation, Copenhagen
- O31** Hess, S., Bliemer, M. & Hibberd, D. (2014), Combining evidence on driver behaviour from simulator experiments and stated preference surveys, 10th International Conference on Transport Survey Methods, Leura, Australia
- O30** Beck, M., & Hess, S. (2013), It's a lovely day for a walk: pedestrian route choice with realism, 10th International Conference on Transport Survey Methods, Leura, Australia
- O29** Cabral, M., Hess, S. & Batley, R. (2014), The Value of Travel Time Changes: A Comparison of British and Danish National Studies, hEART 2014 – 3rd Symposium of the European Association for Research in Transportation, Leeds
- O28** Hess, S., Daly, A.J. & Bradley, M. (2014), Using indirect inference to enable the use of cross-nested logit model for large scale modelling, hEART 2014 – 3rd Symposium of the European Association for Research in Transportation, Leeds
- O27** Fu, Q., Liu, R. & Hess, S. (2014), A Bayesian modelling framework for individual passengers' probabilistic route choices: A case study on the London Underground, 46<sup>th</sup> Annual Conference of Universities' Transport Study Group, Newcastle
- O26** Cabral, M.O., Batley, R.P. & Hess, S. (2013), The Value of Travel Time Changes and Three Key Sources of Variation, International Conference on Uncertainties in Transport Infrastructure Evaluation, Copenhagen
- O25** Hess, S. & Stathopoulos, A. (2013), Linking the decision process to indicators of real world perceptions in a latent variable latent class approach, hEART 2013 - 2nd Symposium of the European Association for Research in Transportation, Stockholm
- O24** Vuk, G., Bowman, J., Daly, A.J. & Hess, S. (2013), Impact of the household on person travel demand: the notion of family priority time in activity based models, hEART 2013 - 2nd Symposium of the European Association for Research in Transportation, Stockholm
- O23** Hess, S., Quddus, M., Rieser-Schüssler, N. & Daly, A.J. (2013), Developing advanced route choice models for heavy goods vehicles using GPS data, hEART 2013 - 2nd Symposium of the European Association for Research in Transportation, Stockholm
- O22** Fu, Q., R. Liu, and S. Hess. (2012), On considering journey time variability and passengers' path choice: An empirical study using Oyster card data on the London Underground, 5<sup>th</sup> International Symposium on Transportation Network Reliability, Hong Kong
- O21** Fu, Q., R. Liu, and S. Hess. (2012), A review on transit assignment modelling approaches to congested networks: A new perspective, 15th Meeting of the EURO Working Group on Transportation, Paris, France, 10-13 Sept. 2012.
- O20** Hess, S. & Rose, J.M. (2012), Can Scale and Coefficient Heterogeneity Be Separated in Random Coefficients Models?, 2012 Conjoint Analysis in Health Care conference, Orlando, Florida.
- O19** Hess, S. & Beharry-Borg, N. (2010), Accounting for latent attitudes in an analysis of the willingness to pay for improved water quality by beach visitors in Tobago, fourth World Congress of Environmental and Resource Economists, Montreal.
- O18** Campbell, D. & Hess, S. (2010), Outlying sensitivities in discrete choice data: consequences and remedies, fourth World Congress of Environmental and Resource Economists, Montreal.
- O17** Collins, A., Rose, J.M., & Hess, S. (2008), Search Based Internet Surveys: Airline Stated Choice by Rose, 8<sup>th</sup> International Conference on Survey Methods in Transport, Annecy, France.
- O16** Hess, S. & Rose, J.M. (2007), A latent class approach to modelling heterogeneous information processing strategies in SP studies, Oslo Workshop on Valuation Methods in Transport Planning, Oslo.
- O15** Hess, S. (2007), Modelling the valuation of travel time savings, Annual UTSG meeting, Harrogate.
- O14** Hess, S., Polak, J.W., & Bierlaire, M. (2006), Confounding between substitution patterns and random taste heterogeneity, 6<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.

- O13** Hess, S., Bierlaire, M. & Polak, J.W. (2006), Discrete Mixture models, 6<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.
- O12** Hess, S., Axhausen, K.W. & Polak, J.W. (2006), Distributional assumptions in Mixed Logit models, 6<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.
- O11** Hess, S. (2005), Competition between London Airports, Meeting of the German Aviation Research Society, Vienna.
- O10** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Discrete mixtures of GEV models, 5<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.
- O9** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Mixed GEV modelling of mode-choice, 5<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.
- O8** Hess, S., Bierlaire, M. & Polak, J.W. (2005), Interpretation of counter-intuitively signed value of travel-time saving estimates, 5<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.
- O7** Hess, A. & Axhausen, K.W. (2005), Distributional assumptions in the representation of random taste heterogeneity, 5<sup>th</sup> Swiss Transport Research Conference, Monte Verita, Ascona.
- O6** Hess, S. (2005), Modelling airport choice in the London area, Annual UTSG meeting, Bristol.
- O5** Hess, S. & Polak, J.W. (2004), Recent developments in the area of simulation-based discrete choice models, Workshop in computational econometrics and statistics, Neuchatel University.
- O4** Hess, S. (2004), Understanding airport-choice behaviour, German Aviation Research Society, Technical University, Bremen.
- O3** Hess, S. & Polak, J.W. (2004), Development and application of a model for airport competition in multi-airport regions, Annual UTSG meeting, Newcastle upon Tyne.
- O2** Jotisankasa, A., Hess, S. & Polak, J.W. (2004), On the effects of alternative discretisation strategies in departure time choice modelling, Annual UTSG meeting, Newcastle upon Tyne.
- O1** Hess, S. (2003), "The Effectiveness of U.K. Speed Camera Programs", poster presented at the SET Annual Reception, Houses of Parliament, London.

#### **Working papers not published elsewhere**

- WP5** Burge, P., Potoglou, D., Kim, C.W., & Hess, S. (2010), How do the public value different outcomes of social care? Estimation of preference weights for ASCOT, RAND Europe working paper.
- WP4** Hess, S., Polak, J.W. & Axhausen, K.W. (2005), Distributional assumptions in mixed logit models, ETH Working Paper, *Arbeitsbericht Verkehrs- und Raumplanung*, 305, IVT, ETH Zurich, Zurich
- WP3** Hess, S. & Axhausen, K.W. (2004), Checking our assumptions in value-of-travel-time modelling: Recovering taste distributions, ETH Working Paper, *Arbeitsberichte Verkehrs- und Raumplanung*, 249, IVT, ETH Zurich, Zurich
- WP2** Hess, S., Bierlaire, M. & Polak, J.W. (2004), A note on the effects of unobserved travel-experience factors on the estimation of value of travel-time savings, CTS Working paper, Centre for Transport Studies, Imperial College London.
- WP1** Hess, S. & Polak, J.W. (2003), The Shuffled Halton sequence, CTS Working paper, Centre for Transport Studies, Imperial College London.

#### **Other written material**

- OW8** Outwater, M.L., Bhat, C.R. Pendyala, R.M., Hess, S., Sana, B., Ferdous, N., Woodford, W. & Sidharthan, R. (2014), TCRP H-37, Characteristics of Premium Transit Services that Affect Choice of Mode, TCRP Report 166, Transportation Research Board of the National Academies.
- OW7** Batley, R.P., Mackie, P., Bates, J.J., Fowkes, A.S., Hess, S., de Jong, G., Wardman, M.R., Fosgerau, M., Updating appraisal values for travel time savings, prepared for the UK Department for Transport
- OW6** Batley, R.P., Nellthorp, J., de Jong, G., Watling, D.P., Grant-Muller, S., Bates, J.J., Polak, J.W., Hess, S. (2007), prepared for the UK Department for Transport
- OW5** Hess, S. (2005), Advanced discrete choice models with applications to transport demand, PhD thesis, Imperial College London.
- OW4** Hess, S. (2005), Transport Projects, Programmes and Policies; Evaluation Needs and Capabilities, Review of Mackie et al. book, *Papers in Regional Science* 84 (2), 291–293.

- OW3** Hess, S. & Daly, A.J. (2005), Departure-Time and Mode Choice: Analysis of Three Stated Preference Data Sets, TR-04026-001, prepared for the UK Department for Transport
- OW2** Aeron-Thomas, A.S. & Hess, S. (2005), Red-light cameras for the prevention of road traffic crashes, Cochrane Database of Systematic Reviews 2005, Issue 2. Art. No.: CD003862.
- OW1** Hess, S. (2002), A Statistical Analysis of the effects of Safety Cameras on Accident Rates in Cambridgeshire, MPhil thesis, Cambridge University.