

## Michael Bruhn Barfod - DTU Orbit (06/08/2016)

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Transport policy and behaviour

Department of Management Engineering - Associate Professor

Management Science

### Publications:

#### **COPE-SMARTER - A decision support system for analysing the challenges, opportunities and policy initiatives: A case study of electric commercial vehicles market diffusion in Denmark**

Barfod, M. B., Kaplan, S., Frenzel, I. & Klauenberg, J. 2016 In : *Research in Transportation Economics*. 55, p. 3-11

Publication: Research - peer-review › Journal article – Annual report year: 2016

#### **Modeling Group Perceptions Using Stochastic Simulation: Scaling Issues in the Multiplicative AHP**

Barfod, M. B., van den Honert, R. & Salling, K. B. 2016 In : *International Journal of Information Technology and Decision Making*. 15, 2, p. 453-474

Publication: Research - peer-review › Journal article – Annual report year: 2016

#### **A new composite decision support framework for strategic and sustainable transport appraisals**

Barfod, M. B. & Salling, K. B. 2015 In : *Transportation Research. Part A: Policy & Practice*. 72, p. 1-15

Publication: Research - peer-review › Journal article – Annual report year: 2015

#### **Creative group decision making for sustainable transport development**

Leleur, S., Gudmundsson, H., Barfod, M. B. & Pryn, M. R. 2015

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

#### **Socio-economic analysis in the transport sector**

Barfod, M. B. (ed.) & Leleur, S. (ed.) 2015 2 ed. DTU Lyngby: Technical University of Denmark, Transport. 60 p.

Publication: Education › Compendium/lecture notes – Annual report year: 2014

#### **Graphical and technical options in Expert Choice for group decision making**

Barfod, M. B. (ed.) 2014 1 ed. DTU Lyngby: Technical University of Denmark, Transport. 35 p.

Publication: Education › Compendium/lecture notes – Annual report year: 2014

#### **Involving stakeholders in transport decision making using planning workshops and MCDA**

Barfod, M. B. & Pryn, M. R. 2014

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

#### **Multi-criteria decision analysis for use in transport decision making**

Barfod, M. B. (ed.) & Leleur, S. (ed.) 2014 2 ed. DTU Lyngby: Technical University of Denmark, Transport. 75 p.

Publication: Education › Compendium/lecture notes – Annual report year: 2014

#### **Bæredygtig transportplanlægning**

Jensen, A. V., Pilkauskienė, I., Salling, K. B., Barfod, M. B. & Leleur, S. 2013 *Transporthorisonter*. Broder Hansen, C. (ed.). Kgs. Lyngby: Technical University of Denmark, Transport, Ch. 9

Publication: Education › Book chapter – Annual report year: 2013

#### **Combining MCDA and risk analysis: dealing with scaling issues in the multiplicative AHP**

Barfod, M. B., van den Honert, R. & Salling, K. B. 2013

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

**Scaling Transformation in the Rembrandt Technique: Examination of the Progression Factors**

Barfod, M. B. & Leleur, S. 2013 In : International Journal of Information Technology and Decision Making. 12, 5, p. 887-903

Publication: Research - peer-review › Journal article – Annual report year: 2013

**The UNITE-DSS Modelling System: Risk Simulation and Decision Conferencing**

Salling, K. B. & Barfod, M. B. 2013

Publication: Research › Conference abstract for conference – Annual report year: 2013

**An MCDA approach for the selection of bike projects based on structuring and appraising activities**

Barfod, M. B. 2012 In : European Journal of Operational Research. 218, p. 810-818

Publication: Research - peer-review › Journal article – Annual report year: 2012

**Indragelse af borgere og interessenter i beslutningsprocessen – en introduktion til beslutningskonferencer**

Jensen, A. V., Barfod, M. B. & Pilkauskiene, I. 2012 In : Trafik og Veje. 8, p. 56-58

Publication: Communication › Journal article – Annual report year: 2012

**Optimising Transport Decision Making using Customised Decision Models and Decision Conferences**

Barfod, M. B. & Leleur, S. 2012 Kgs.Lyngby: Technical University of Denmark, Transport. 191 p. (PhD-2012-01).

Publication: Research › Ph.D. thesis – Annual report year: 2012

**The EcoMobility Modelling Framework for Sustainable Transport Planning**

Jensen, A. V., Ambrasaitė, I., Salling, K. B., Barfod, M. B. & Leleur, S. 2012 *Rethinking Transport in the Øresund Region: Policies, Strategies and Behaviours*. Carlsson, C-M., Emtairah, T., Gammelgaard, B., Vestergaard Jensen, A. & Thidell, Å. (eds.). Lund University, Ch. 9, p. 149-164

Publication: Research - peer-review › Book chapter – Annual report year: 2012

**The UNITE Modelling System: SIMSIGHT - Risk Simulation and Scenario Foresight**

Salling, K. B. & Barfod, M. B. 2012

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

**Composite decision support by combining cost-benefit and multi-criteria decision**

Barfod, M. B., Salling, K. B. & Leleur, S. 2011 In : Decision Support Systems. 51, 1, p. 167-175

Publication: Research - peer-review › Journal article – Annual report year: 2011

**Estimating the Robustness of Composite CBA and MCDA Assessments by Variation of Criteria Importance Order**

Jensen, A. V., Barfod, M. B. & Leleur, S. 2011 *New State of MCDM in the 21st Century: Selected Papers of the 20th International Conference on Multiple Criteria Decision Making 2009*. Shi, Y., Wang, S., Wallenius, J. & Kou, G. (eds.). Springer Publishing Company, Ch. 5, p. 59-67 (Lecture Notes in Economics and Mathematical Systems).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

**Examination of decision support systems for composite CBA & MCDA assessments of transport infrastructure projects**

Barfod, M. B., Jensen, A. V. & Leleur, S. 2011 *Lecture Notes in Economics and Mathematical Systems: MCDM 2009 post conference proceeding*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

**Examination of Decision Support Systems for Composite CBA and MCDA Assessments of Transport Infrastructure Projects**

Barfod, M. B., Jensen, A. V. & Leleur, S. 2011 In : Lecture Notes in Economics and Mathematical Systems. 648, p. 167-176

Publication: Research - peer-review › Conference article – Annual report year: 2011

**MCDA and Risk Analysis in Transport Infrastructure Appraisals: the Rail Baltica Case**

Ambrasaitė, I., Barfod, M. B. & Salling, K. B. 2011 In : Procedia - Social and Behavioral Sciences. 20, p. 944-953

Publication: Research - peer-review › Conference article – Annual report year: 2011

### **CykelPuljePrioriterings-metoden (CPP-metoden)**

Barfod, M. B. & Salling, K. B. 2010 In : Trafik og Veje. 1, p. 14-16

Publication: Communication › Journal article – Annual report year: 2010

### **Structuring and assessing large and complex decision problems using MCDA**

Barfod, M. B. 2010

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

### **Customised DSS and decision conferences**

Barfod, M. B. & Leleur, S. 2009 *Proceedings of XIII Meeting of the European Working Group on Transportation: University of Padova - Italy*. University of Padova

Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

### **Customised DSS and Decision Conferences**

Barfod, M. B. & Leleur, S. 2009

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2009

### **Estimating the robustness of composite CBA & MCA assessments by variation of criteria importance order**

Jensen, A. V., Barfod, M. B. & Leleur, S. 2009

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2009

### **Examination of decision support systems for composite CBA & MCDA assessments of transport infrastructure projects**

Barfod, M. B., Jensen, A. V. & Leleur, S. 2009

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2009

### **Helhetsorienterad utvärdering av kollektivtrafikåtgärder**

Hiselius, L. W., Barfod, M. B., Leleur, S., Jeppesen, S. L., Jensen, A. V. & Hjalte, K. 2009 Lund, Sverige: Lunds Universitet . 142 p.

Publication: Research › Report – Annual report year: 2009

### **Report on Scenario, Traffic Forecast and Analysis of Traffic on the TEN-T, taking into Consideration the External Dimension of the Union: assessment of Infrastructure packages**

Rich, J., Barfod, M. B., Enei, R., Pearman, A., Räsänen, J. & Shires, J. 2009

Publication: Research › Report – Annual report year: 2009

### **Hållbart transportsystem för inre och yttre attraktionskraft - STMØ 2: Integration, konkurrenskraft och utbildning i Öresundsregionen**

Carlsson, C-M. (ed.), Andersson, L., Arnfalk, P., Barfod, M. B., Cederin, K., Larsen, J. D., Ericsson, E., Gammelgaard, B., Jeppesen, S. L., Larson, P. D., Larsson, E., Leleur, S., Olshov, A., Rydén, P., Rørbech, J., Skovby, L., Várhelyi, A., Jensen, A. V. & Hiselius, L. W. 2008 Malmö: Malmö högskola. 348 p.

Publication: Research › Report – Annual report year: 2008

### **Strategic Location Planning: A 'Hard' Approach Supported by 'Semi-Soft' Methods**

Jeppesen, S. L., Barfod, M. B. & Leleur, S. 2008 In : Journal of Information Science and Technology. 5, 3, p. 24-42

Publication: Research - peer-review › Journal article – Annual report year: 2008

### **A Composite Modelling Approach to Decision Support by the Use of the CBA-DK Model: The Hornsherred Case**

Barfod, M. B., Salling, K. B. & Leleur, S. 2007 *Euro XXII: Book of Abstracts*. Vol. Prague, July 8-11, 2007

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

### **Comparing a soft and a hard multi-methodology approach: Location of an IT company in the Øresund Region**

Jeppesen, S. L., Barfod, M. B. & Leleur, S. 2007 *ISOneWorld 2007*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

**COSIMA-ES-PORT: A new Decision Support Model for the handling of road/rail/cargo related impacts**

Barfod, M. B. & Leleur, S. 2007 In : Mercator Media Forum. p. 31-54

Publication: Research - peer-review › Journal article – Annual report year: 2007

**Improving Public Investment Management for Large-Scale Government Projects: Focusing on the Feasibility Studies: Lessons and Challenges**

Leleur, S., Barfod, M. B. & Petersen, N. B. 2007 *The COSIMA Approach to Transport Decision Making: Combining Cost-benefit and Multi-criteria Analysis for Comprehensive Project Appraisal*. 1 ed. Seoul: KDI, Vol. Improving Public Investment Management for Large-Scale Government Projects, p. 100-122 175 p.

Publication: Research - peer-review › Book chapter – Annual report year: 2007

**Strategic Planning and Decision Analysis: Presentation of the COSIMA Software System**

Jensen, A. V., Barfod, M. B. & Leleur, S. 2007

Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

**The Analytical Hierarchy Process: Technical note**

Barfod, M. B. 2007

Publication: Education › Compendium/lecture notes – Annual report year: 2007

**Projects:**

**National Transport Planning - sustainability, institutions, tools**

Leleur, S., Gudmundsson, H., Sørensen, C. H., Salling, K. B., Jensen, A. V., Barfod, M. B. & Cornet, Y.

01/06/2012 → 31/05/2016

Project

**The EcoMobility project**

Leleur, S., Jensen, A. V., Salling, K. B., Barfod, M. B. & Ambrasaitė, I.

01/04/2009 → 31/10/2011

Project

**Optimising Transport Decision Making by use of Customised Decision Models and Decision Conferences**

Barfod, M. B., Leleur, S., Kveiborg, O., Næss, P. & Pearman, A.

01/01/2008 → 28/03/2012

Project: PhD

**East - West project : Danish WP3 Report**

Barfod, M. B. & Kronbak, J.

01/08/2006 → 01/11/2006

Project

**Activities:**

**Workshops som led i beslutningsprocesser om bæredygtig transport**

Michael Bruhn Barfod (Speaker), 26 Aug 2014, Trafikdage Aalborg 2014

Activity: Lecture and oral contribution