






Professor Stephen M. Disney, Ph.D.

CONTACT INFORMATION



 Centre for Simulation, Analytics, and Modelling,
University of Exeter Business School,
Streatham Court, Rennes Drive,
Exeter, EX4 4PU, UK.

 +44(0)1392 725968
 stephen.disney
 S.M.Disney@exeter.ac.uk
 www.bullwhip.co.uk




RESEARCH INTERESTS

Bullwhip effect; Inventory theory; Forecasting; Control theory; Supply chain management; Operations management; Closed-loop supply chains; Business analytics; Statistics.

KEY RESEARCH METRICS

 Google Scholar H-Index: 58, Google Scholar i-10 Index: 123, Google Scholar Citations: 14218, ResearchGate Research Interest Score: 6468. Erdős Number: ≤ 4 .  August 10, 2024




EDUCATION

 **Cardiff Business School**, Cardiff University, UK.  1995-2001
 *Doctor of Philosophy, Ph.D.*

- Dissertation Topic: The production and inventory control problem in vendor managed inventory supply chains.
- Advisors: Professor Mohamed M. Naim and Professor Denis R. Towill.
- Examiners: Professor Maurice Bonney (Nottingham University) and Professor David Bennett (Aston University).

 **Cardiff School of Engineering**, Cardiff University, UK.  1994-1995
 *M.Sc. in Systems Engineering*

- Dissertation Topic: Redesign of an electromagnetic valve in a concurrent engineering environment.
- Advisor: Professor Duc T. Pham.




 **Cardiff School of Engineering**, Cardiff University, UK.  1992-1994
 *B.Eng (Hons) in Manufacturing Systems and Manufacturing Management*

- Dissertation Topic: Assessment of spreadsheet models for teaching operations management.
- Advisor: Dr. Jane Edghill.

ACADEMIC EXPERIENCE




 **University of Exeter Business School**, UK.  2019-present
 *Professor in Operations Management*

- Teaching Operations Management to second year undergraduates, Maths and Statistics for Business Analytics and Operations and Project Management to postgraduates and Data Analytics to MBA students.
- Head of the Science, Innovation, Technology, and Entrepreneurship Department Jan 2020 to September 2022. Line manager for 60+ academic staff.
- Director of the Centre for Simulation, Analytics, and Modelling, since September 2021.




 **Cardiff Business School**, Cardiff University, UK.  2011-2019
 *Professor in Operations Management*

- Head of the Logistics and Operations Management Section, Sept 2012 - Sept 2015. Led a department of 62 academic staff of which I line-managed 31 academics.
- Director of the Logistics Systems Dynamics Group, September 2016-August 2019.




- Teaching an MBA module entitled Operations Analysis, an M.Sc. module entitled Operations Management, an M.Sc. module entitled Supply Chain Modeling, an M.Sc. module entitled Logistics and Transport Modeling, and an M.Sc. module entitled Operations Analytics.
- Supervision of PhD, M.Sc., and MBA dissertations.
- Awarded a Research Leave Fellowship by the University Executive Board of Cardiff University to take a research sabbatical in 2015-2016.

 **Anderson School of Management**, UCLA, USA.  2015-2016
 *Visiting Research Scholar*




- Research with Professor Christopher Tang on supply chain coordination problems.
- Industrial engagement with Lexmark in Boulder, Colorado, USA.
- US lecture tour including research seminars at Northwestern University, University of California Los Angeles, Cornell University, and Arizona State University. Research visits to the University of San Diego, University of California Irvine, and Boston University.

 **Cardiff Business School**, Cardiff University, UK.  2009-2011
 *Reader in Operations Management*




- Director, Developer, and Admissions Tutor for the M.Sc. in Logistics and Operations Management course.
- Teaching MBA Operations Analysis module and an M.Sc. module entitled Operations Management.
- Development and delivery of an executive education course in Operations Management.
- Development and delivery of service teaching course for the Department of Mathematics in M.Sc. Applied Operations Research module in Supply Chain Modeling.
- Co-ordinated the periodic review of the schools logistics and operations management postgraduate provision.
- Supervision of Ph.D., M.Sc., and MBA dissertations.

 **Department of Administrative Sciences**, Boston University, USA.  2011
 *Visiting Assistant Professor*




- Teaching an M.Sc. module entitled Global Services and Supply Chain Management, a BA module entitled Project Management and an M.Sc. module entitled Quantitative and Qualitative Decision Making (On-line).
- Research with Professor Roger Warburton on applying the Lambert W Function to EOQ problems and studying the influence of stochastic lead-times on safety stock.

 **Cardiff Business School**, Cardiff University, UK.  2005-2009
 *Senior Lecturer in Operations Management*

- Teaching Operations Management to the MBA and DBA courses and Logistics and Transport Modeling and Operations Management to M.Sc. students.
- Development and delivery of an executive education course in Operations Management.
- Supervision of Ph.D., M.Sc., and MBA dissertations.
- Co-investigator on various *CUIMRC* projects, participant on other (national and international) projects.
- Industrial Liaison Manager, Logistics Systems Dynamics Group (until June 2008).

 **Cardiff Business School**, Cardiff University, UK.  2003-2005
 *Lecturer in Operations Management*

- Teaching Operations Management to the DBA, Logistics and Transport Modeling to the M.Sc. and B.Sc. in International Transport, Operations Management to the MBA.
- Supervision of Ph.D., M.Sc., and MBA dissertations.
- Coordinator and Co-Investigator of the *ITeLS* project.
- Industrial Liaison Manager for the Logistics Systems Dynamics Group.

 **Department of Systems Engineering**, Chinese University of Hong Kong, HK.  2002
 *Visiting Scholar*

- Research with Professor Youhau (Frank) Chen on the stochastic investigation of optimal order-up-to policies with z-transforms.
- Guest lectures.


 **Cardiff Business School**, Cardiff University, UK.  2000-2003
 *Research Associate*


- Teaching Operations Management to the DBA course, Logistics and Transport Modeling to the M.Sc. and B.Sc. in International Transport cohorts, and Operations Management to the MBA.
- Supervision of Ph.D., M.Sc., and MBA dissertations.
- Coordinator and Co-Investigator of the EPSRC *EURONiL* and *ITeLS* projects.
- Industrial Liaison Manager for the Logistics Systems Dynamics Group.


 **Department of Maritime Studies**, Cardiff University, UK.  1996-2000
 *Research Associate*


- Research Associate on the *Design, Implementation and Evaluation of a Dynamic Supply Chain Decision Support System*, an EPSRC project.
- Research Assistant on the *Human Capital and Mobility* project, a joint project with Chemnitz University, Germany.


HONORS AND AWARDS


 In 2022, **ScholarGPS** ranked me as the 22nd highly ranked scholar in the world in their supply chain lifetime category.


 I hold **Research.com Leader Awards for Business and Management in United Kingdom in 2024, 2023, and 2022**. I currently ranked 77th best scientist in the UK, 495th in the world in the Business and Management category and 139th in the UK (1886th in the world) for the Engineering and Technology category.

 I was awarded a **University of Exeter Business School Teaching Award**, Department Winner in June 2023, for my teaching on the Maths and Statistics in Business Analytics module.

 In 2019, Ioannidis, Baas, Klavans and Boyack, of Stanford University, created a database of the top 100,000 scientists. The scientists are groups into 22 scientific fields and 176 sub-fields. I have the honor of being listed in this database, in the sub-field of Operations Research (OR). In the OR sub-field there were 23,455 people that made it into **the top 2% of the worlds scientists**. I was ranked 270 in the world. In the UK, I was ranked 17th.

 My paper (with Borja Ponte and Xun Wang) entitled “The nonlinear dynamics of order-up-to inventory systems with lost sales”, won a **Commended Paper Award** at the International Federation of Automatic Control, 8th Manufacturing, Modelling, Management and Control Conference in August 2019.

 My paper (with Bahman Rostami-Tabar) entitled “The bullwhip effect under count time series: The case of first order integer auto-regressive demand processes”, won the **Best Track Paper** at the International Symposium on Industrial Engineering and Operations Management in 2017.

 My project with Lexmark was recognized with a prize in the supply Chain Leadership category

of **Frost and Sullivan’s Manufacturing Leadership Awards** in 2014.

🏆 My co-author, Xun Wang was awarded the **Young Scientist Award** at the 21st International Conference on Production Research in 2011 for the paper Wang, X. and Disney, S.M., “Stability analysis of a constrained inventory system”.

🏆 My PhD student, Pairach Piboonrungraj was awarded the **Harry Boer Highly Commended Student Paper Award** at the 18th Annual European Operations Management Association Conference in 2011 for the paper Piboonrungraj, P. and Disney, S.M., “Supply chain collaboration, inter-firm trust and logistics performance: Evidence from the tourism sector”.

🏆 The Production Planning and Control journal **Best Paper Award for 2008** was given to Boute R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2008), “A win-win solution for the bullwhip problem”, *Production Planning and Control*, 19 (7), 702-711.

🏆 I was a finalist for the **UK Operations Research Society’s Presidents Medal** in September 2007. This medal is awarded for a practical application of OR techniques to industry. My work at Tesco was considered.

🏆 The Chartered Institute of Logistics and Transport awarded my M.Sc. in International Transport student Ting Ting Wu the **Masters Logistics Dissertation of the Year Award** in 2006.

🏆 Emerald Publishing gave a **Citation of Excellence Award** for one of the best 50 Management Papers in 2005. Over 40,000 articles were reviewed from 1500 journals. The award was given for the paper Holweg, H., Disney, S.M., Holmström, J. and Småros, J., (2005), “Supply chain collaboration: Making sense of the strategy continuum”, *European Management Journal*, 23 (2), 170-181.

🏆 The Literate Club gave a **Highly Commended Award** for the paper Towill, D.R., Childerhouse, P. and Disney, S.M., (2000), “Speeding up the progress curve towards effective supply chain management”, *Supply Chain Management: An International Journal*, 5 (3), 122-130.

INVITED TALKS,
SEMINARS,
TUTORIALS,
PANELS, AND
PLENARIES

🎤 **Invited Seminar** at the **Operations and Supply Chain Management Research Conference** 📅 July 2024
The dynamics of agricultural supply chains 📍 Saïd Business School, University of Oxford, UK.

🎤 **Invited Tutorial** at the **Workshop in memory of John Boylan** 📅 June 2024
Inventory management under stochastic lead times: A tutorial 📍 Lancaster University School of Management, UK

🎤 **Invited Seminar** at the **Glorious Sun School of Business and Management, Donghua University** 📅 May 2024
SpeedFactories: Global dual sourcing under correlated demand 📍 Shanghai, CHINA

🎤 **Invited Tutorial** at the **Glorious Sun School of Business and Management, Donghua University** 📅 May 2024
Discrete control theory for management science: A tutorial 📍 Shanghai, CHINA

🎤 **Invited Tutorial** at the **The Second Operations Analytics Event** 📅 April 2024
Inventory management under stochastic lead times: A tutorial 📍 Leuven, BELGIUM

🎤 **Invited Seminar** at the **University of Bath, School of Management** 📅 Sept 2023
On the transition from make-to-stock to make-to-order 📍 Bath, UK

🎤 **Invited Seminar** at the **Glorious Sun School of Business and Management, Donghua University** 📅 Sept 2023
On the transition from make-to-stock to make-to-order 📍 Shanghai, CHINA

🎤 **Invited Tutorial** at the **International Society for Inventory Research Summer School** 📅 July 2023
Discrete control theory for inventory management: A tutorial 📍 Cardiff, UK

🎤 **Panel member** at the **33rd Annual POMS-Conference** 📅 May 2023
Meet the editors session in the inventory and logistics track 📍 Orlando, USA

🎤 **Invited Presentation** at the **World Intelligent Manufacturing Summit** 📅 Nov 2022

- Global dual sourcing with SpeedFactories: The case of correlated demand* 📍 Nanjing, CHINA
- 🎤 **Invited Seminar** to the **Logistics Systems Dynamics Group** at **Cardiff Business School, Cardiff University** 📅 Jan 2022
- On the order-up-to policy with intermittent integer demand and coherent forecasts* 📍 Cardiff, UK
- 🎤 **Invited Seminar** for the **OR Seminar Series** at **The University of Exeter, College of Engineering, Mathematics, and Physical Sciences** 📅 Jan 2021
- SpeedFactories: Global dual sourcing under correlated demand* 📍 Exeter, UK
- 🎤 **Invited Seminar** at the **International Society for Inventory Research Summer School** 📅 Aug 2019
- Discrete control theory* 📍 Leuven, BELGIUM
- 🎤 **Invited Talk** at **The Public Uni** 📅 Nov 2017
- Global dual sourcing and SpeedFactories* 📍 Cardiff, UK
- 🎤 **Invited Seminar** at **Cardiff University Mathematics Society** 📅 Oct 2017
- Global dual sourcing and SpeedFactories* 📍 Cardiff, UK
- 🎤 **Research Seminar** at **Faculty of Economics and Business** 📅 June 2017
- Three means of smoothing under cyclical production planning* 📍 KULeuven, BELGIUM.
- 🎤 **Invited Talk** at **The Public Uni** 📅 Feb 2017
- The dynamic behavior of supply chains: the bullwhip effect* 📍 Cardiff, UK.
- 🎤 **Invited Speech** at the **Annual Conference on “Risk, resilience and robustness of dynamic supply networks: Bridging mathematical models and practice”** 📅 Jan 2017
- The bullwhip effect in supply chains* 📍 Edinburgh, UK
- 🎤 **Plenary Speech** at the **Stochmod Conference: The EURO Working Group on Stochastic Modeling** 📅 July 2016
- The bullwhip effect in supply chains* 📍 Louvain-la-Neuve, BELGIUM
- 🎤 **Research Seminar** to the faculty of **Samuel Curtis Johnson Graduate School of Management** 📅 April 2016
- Stochastic lead-times and inventory management* 📍 Cornell University, USA
- 🎤 **Research Seminar** to the faculty of **W.P. Carey School of Business** 📅 March 2016
- The bullwhip problem and stochastic lead times* 📍 Arizona State University, USA
- 🎤 **Research Seminar** to the faculty of **Kellogg School of Management** 📅 Jan 2016
- The bullwhip effect* 📍 Northwestern University, USA
- 🎤 **Research Seminar** to the faculty of **Anderson School of Business** 📅 Oct 2015
- The bullwhip problem and stochastic lead times* 📍 University of California Los Angeles, USA
- 🎤 **Invited Lecture** on the **NATCOR Ph.D. Stochastic Modeling course** 📅 March 2015
- Supply Chain Management lectures* 📍 Lancaster University, UK
- 🎤 **Research Seminar** to the faculty of **Saïd Business School** 📅 Jan 2015
- Solving the bullwhip problem once and for all* 📍 Oxford University, UK
- 🎤 **Christmas Lecture** to the **South Wales Operational Research Discussion Group (SWORDS)** 📅 Jan 2015
- The dynamics of supply chains* 📍 Cardiff, UK
- 🎤 **Guest Lecture** to the pupils of **Xingan High School** 📅 April 2014
- University life in the UK* 📍 Xingan, Jiang Xi Province, CHINA
- 🎤 **Invited Seminar** delivered to the **Logistics and Supply Chain Forum** run by **Richmond Events** 📅 March 2014
- The bullwhip effect in supply chains* 📍 Whittlebury, UK
- 🎤 **Invited Lecture** on the **NATCOR Ph.D. Stochastic Modeling course** 📅 April 2013
- Supply chain management lectures* 📍 Lancaster University, UK
- 🎤 **Research Seminar** at the **Lancaster University Management School** 📅 Feb 2013

- Damped Trend forecasting and the Order-Up-To policy* 📍 Lancaster University, UK
- 🎤 **Invited Talk** to the pupils of **Cathedral School** 📅 Dec 2011
Where research leads 📍 Cardiff, UK.
- 🎤 **Series of Five Seminars** delivered to Executives of **Lexmark** 📅 July 2011
Supply chain dynamics and the bullwhip effect, Case studies in the bullwhip effect, Forecasting for the supply chain, Lean supply chains 📍 Boulder and Lexington, USA
- 🎤 **Research Seminar** to the **Japanese Industrial Management Association** 📅 May 2010
Supply chain dynamics and the bullwhip effect 📍 Toyko, JAPAN
- 🎤 **Research Seminar** to the **Japanese Operational Research Society** 📅 May 2010
The bullwhip effect in supply chains 📍 Toyko, JAPAN
- 🎤 **Research Seminar** to the faculty of the Department of Management Science and Innovation, **University College London** 📅 Sept 2009
The bullwhip effect in supply chains 📍 London, UK
- 🎤 **Research Seminar** to the **LANCS Initiative: Green Logistics Theme** 📅 April 2009
Supply chain modeling 📍 Southampton University, UK
- 🎤 **Research Seminar** to members of the **Welsh Institute of Mathematical and Computer Sciences** 📅 May 2008
The bullwhip effect in supply chains 📍 Cardiff University, UK
- 🎤 **Research Seminar** to the **Centre of Operational Research and Applied Statistics (CORAS)** 📅 March 2008
Forecasting for inventory management 📍 Salford University, UK
- 🎤 **Evening Seminar** to faculty of the **South Wales Operational Research Discussion Society (SWORDS)** 📅 Feb 2008
The bullwhip effect in supply chains 📍 Swansea University, UK
- 🎤 **Presidents Medal Speech** to the **OR Society Annual Conference** 📅 Sept 2007
The bullwhip effect in supply chains 📍 Edinburgh, UK
- 🎤 **Seminar** to staff of **Wal-Mart's Global Procurement Office** 📅 July 2006
The dynamics of material flow in supply chains 📍 Shenzhen, CHINA
- 🎤 **Research Seminar** to the Alumni Society of the **Faculty of Economics** 📅 March 2006
The dynamics of material flow in supply chains 📍 KULeuven, BELGIUM
- 🎤 **Research Seminar** to the faculty of the **Department of Economics, Econometrics and Finance** 📅 March 2006
The dynamics of material flow in supply chains 📍 Groningen University, HOLLAND
- 🎤 **Research Seminar** to the faculty of the **School of Management** 📅 Feb 2006
The dynamics of material flow in supply chains 📍 Lancaster University, UK
- 🎤 **Evening Lecture** to the **Chartered Institute for Logistics and Transport** 📅 Sept 2005
The dynamics of material flow in supply chains 📍 London, UK
- 🎤 **Research Seminar** to the faculty of **Nottingham University Business School** 📅 Sept 2005
Co-ordination of a two-echelon supply chain. Policies and parameters 📍 Nottingham, UK
- 🎤 **Invited Lecture** to the students on the M.Sc. in Managing International Operations at **Nottingham University Business School** 📅 Feb 2005
Supply chain collaboration: Making sense of the strategy continuum 📍 Nottingham, UK
- 🎤 **Invited Presentation** to the **MSOM Multi-Echelon Inventory Special Interest Group Conference** 📅 July 2004
Co-ordination of a two-echelon supply chain. Policies and parameters 📍 Eindhoven, HOLLAND
- 🎤 **Research Seminar** to the faculty of the **Department of Economics, Econometrics and Finance** 📅 Sept 2003

- Information sharing in supply chains* 📍 Groningen University, HOLLAND
- 🎤 **Research Seminar** to the faculty of the **Smeal College of Business** 📅 Sept 2003
Information sharing in supply chains 📍 Penn State University, USA
- 🎤 **Research Seminar** to the **Systems Engineering and Engineering Management Department** 📅 Nov 2002
Information sharing in supply chains 📍 Chinese University of Hong Kong, USA
- 🎤 **Plenary Speech, International Conference on Production Research** 📅 July 2001
The triple algorithm for solving the dynamic lot sizing problem 📍 Prague, CZECH REPUBLIC
- 🎤 **Research Seminar**, to the staff of **Trillion Consulting** 📅 March 2001
Vendor managed inventory supply chains 📍 Boston, USA
- 🎤 **Research Seminar**, to the faculty of **Helsinki University of Technology** 📅 March 2001
Vendor managed inventory supply chains 📍 Helsinki, FINLAND
- 🎤 **Two Research Seminars**, to the staff of **Hewlett Packard** 📅 March 1999
Vendor managed inventory supply chains 📍 Palo Alto and Vancouver, USA

RESEARCH
GRANTS

- 📅 2018
Research Group Funding for the Logistics Systems Dynamics Group
Principal investigator. Sponsored by Cardiff Business School. £3,000
- 📅 2017
Enhancing Supply Chain Flexibility
Co-investigator. Sponsored by Yeo Valley Farms, Ref: 513203. £140,000
- 📅 2017
Research Visit to KULeuven, Belgium
Investigator. Sponsored by KULeuven. £600
- 📅 2016
Impact Case Development Fund
Co-investigator. Sponsored by Cardiff Business School. £5,000
- 📅 2016
Research Group Funding for the Logistics Systems Dynamics Group
Principal investigator. Funded by Cardiff Business School. £3,000
- 📅 2016
Travel funds to give a Plenary at the StochMod Conference
Co-investigator. Sponsored by Belgium National Science Foundation. £1,800
- 📅 2016
Research Visit to Arizona State University
Co-investigator. Sponsored by Arizona State University. \$800
- 📅 2016
Research Visit to Cornell University
Principal investigator. Funded by CARBS' International Development Scheme. £880
- 📅 2016
Research visit to NorthWestern University
Principal investigator. Funded by NorthWestern University. \$600
- 📅 2016
Relocation Assistance in Los Angeles
Principal investigator. Funded by University of California, Los Angeles. \$1000
- 📅 2015
Supply Chain Business II Working with Lexmark.
Principal investigator. Sponsored by ERSC Impact Accelerator Fund, Ref: 509700. £4,467
- 📅 2015
Distinguished Visitors Scheme To host visit by Professor Gerard Gaalman of Groningen University, HOLLAND.
Principal investigator. Funded by CARBS' International Development Scheme. £1,337
- 📅 2015
Research Leave Fellowship To spend one year at UCLA working with Professor Chris Tang.
Principal investigator. Funded by Cardiff University Executive Board. £15,000
- 📅 2015
Research Leave Funding To spend one year at UCLA working with Professor Chris Tang.

<i>Principal investigator.</i> Funded by Cardiff Business School Research Leave Scheme.	£3,000
⑨ Opportunities for Operational Improvement at Aberthaw Power Station	📅 2014
<i>Principal investigator.</i> Sponsored by Strategic Insight Programme. Ref CaU CS 4004.	£2,250
⑨ International Visitors Scheme To host Professor Roger Warburton from Boston University.	📅 2014
<i>Principal investigator.</i> Sponsored by Cardiff Business School Research Funding Scheme.	£1,600
⑨ To Design, Develop, and Implement Business and Manufacturing Systems Reid Lifting Limited.	📅 2013
<i>Lead Academic.</i> Sponsored by Technology Strategy Board, Ref KTP009052.	£123,111
⑨ Supply Chain Business	📅 2011
<i>Principal Investigator.</i> Sponsored by Lexmark, Ref: 502470.	£40,000
⑨ Research into the Impact of Information Errors and RFID on the Dynamics and Economic Performance of Supply Chains	📅 2009
<i>Principal Investigator.</i> Sponsored by the Daiwa Anglo-Japanese Foundation, Ref 500249.	£1,000
⑨ Further Funding for Research into the Impact of Information Errors and RFID on the Dynamics and Economic Performance of Supply Chains	📅 2009
<i>Principal Investigator.</i> Sponsored by Cardiff University Overseas Travel Fellowship Scheme.	£2,500
⑨ Decision Models for Dynamic Supply Chains Under Risk Joint Project with the Logistics/SCM Research Group of the University of Aarhus School of Business, Denmark.	📅 2007
<i>Participant.</i> Sponsored by Danish Social Science Research Council (FSE).	€3M
⑨ Forecasting and Inventory Management: Bridging the Gap Joint Project with the Centre for Operational Research and Applied Statistics, University of Salford.	📅 2007
<i>Participant.</i> Sponsored by the EPSRC, ref EP/F012632/1.	£50,000
⑨ Securing the UK Food Supply: The New Dynamic Joint project with the Lean Enterprise Research Centre, Cardiff University.	📅 2006
<i>Co-investigator.</i> Sponsored jointly by the Cardiff University Innovative Manufacturing Research Centre and Chatham House.	£40,000
⑨ To Achieve Significant Improvement in Machine Reliability, Productivity and Systems Performance Through Developing a Company-wide TPM System Joint project with the Lean Enterprise Research Centre, Cardiff University.	📅 2006
<i>Co-Investigator.</i> Sponsored by the DTI/ EPSRC, Ref KSMC908.	£92,696
⑨ Micro Tooling for Non-silicon Micro Components Joint project with the Mechanical Engineering Centre and the Lean Enterprise Research Centre, Cardiff University.	📅 2005
<i>Co-investigator.</i> Sponsored by EPSRC, Ref GR/S75505.	£619,376
⑨ Micro Tooling for Non-silicon Micro Components Joint project with the Mechanical Engineering Centre and the Lean Enterprise Research Centre, Cardiff University.	📅 2005
<i>Co-investigator.</i> Additional Industrial Support.	£100,000
⑨ European Master Degree in Logistics Joint project with Linköping University, SWEDEN, Ljubljana University, SLOVENIA and Cartagena University, SPAIN.	📅 2004
<i>Co-investigator.</i> Sponsored by Socrates, Ref 63651IC120002-1.	£15,242
⑨ The Optimality of Replenishment Rules	📅 2004
<i>Principal Investigator.</i> Funded by Cardiff University Research Travel Scheme	£2890
⑨ Understanding Potential Synergies in Manufacturing Supply Chains between Europe and India (USER-MIND)	📅 2002
<i>Co-investigator.</i> Sponsored by EuropeAid, Ref ASI B7-301/71 551(3152-097).	£67,000
⑨ Researching a Unified Theory of Business Dynamics	📅 2002
<i>Principal investigator.</i> Cardiff Young Researchers Grant awarded by the Senate of the University of Wales	£8,250
⑨ Supply Chain Equalization and Information Resource Centre	📅 2002

	<i>Co-investigator.</i> Sponsored by Leeds University and the Faraday Packaging Partnership.	£13,108
	⑨ Continuous Replenishment Alignment Project	📅 2001
	<i>Principal investigator.</i> Sponsored by Tesco.	£14,160
	⑨ European University Research and Operations Network in Logistics	📅 2000
	<i>Co-investigator.</i> Sponsored by the EPSRC, Grant No. GR/N66162/01.	£63,057
	⑨ Integrating Transport and e-commerce in Logistics Supply Chains	📅 2000
	<i>Co-investigator.</i> Sponsored by the EPSRC, Grant No. AD 9/64/127.	£282,712
	⑨ Distribution Network Design	📅 2000
	<i>Co-investigator.</i> Sponsored by Wiremold.	£8,924
	⑨ Quick Scan Review of Manufacturing and Supply Chain Activities	📅 2000
	<i>Co-investigator.</i> Sponsored by Tomeo Tritec.	£4,190
	⑨ Research Application of the Quick Scan to the Utility Sector	📅 2000
	<i>Co-investigator.</i> Sponsored by Bristol Water.	£12,090
	⑨ Identification of Optimal Manufacturing Systems	📅 2000
	<i>Co-investigator.</i> Sponsored by Harmon Motive.	£9,500
CURRENT EDITORIAL DUTIES	✍ Associate Editor	📅 2012-
	<i>IMA Journal of Management Mathematics (IMA-MM)</i>	
	Area: Control Theory, Inventory and Supply Chain Optimization, Production Optimization.	
	✍ Editorial Review Board	📅 2011-
	<i>Journal of Business Logistics (JBL)</i>	
	✍ Editorial Board Member	📅 2010-
	<i>European Journal of Operational Research (EJOR)</i>	
	✍ Editorial Board Member	📅 2009-
	<i>International Journal of Production Economics (IJPE)</i>	
	✍ Editorial Board Member	📅 2008-
	<i>International Journal of Applied Management Science (IJAMS)</i>	
PREVIOUS EDITORIAL DUTIES	✍ Associate Editor	📅 2009-2018
	<i>European Journal of Industrial Engineering (EJIE).</i> Area: Supply Chain Management	
	✍ Editorial Board Member	📅 2010-2014
	<i>Open Management Journal (OMJ)</i>	
SPECIAL ISSUE EDITORSHIPS	✍ Uncertainty in Operations and Supply Chain Management.	📅 2021-2024
	<i>Journal of Operations Management,</i> with J. Holmström, B. Lawson, F. Pil and C.S. Tang.	
	✍ Innovative Service and Manufacturing Design.	📅 2016
	<i>International Journal of Production Economics,</i> with Y.H. Lun, M. Quaddus and M.M. Naim.	
	✍ Papers from the Sixteenth International Working Seminar on Production Economics	📅 2010
	<i>International Journal of Production Economics,</i> with M. Bogataj and O. Tang.	
	✍ Papers from the 19th International Conference on Production Research.	📅 2009
	<i>International Journal of Logistics: Research and Applications.</i>	

CONFERENCE
ORGANIZATION

- 🗨 **Scientific Committee Member** 📅 July 2022
6th World Conference on Production & Operations Management (POM) 📍 Nara, JAPAN
- 🗨 **Scientific Committee Member** 📅 Sept 2016
5th World Conference on Production & Operations Management (POM) 📍 Havana, CUBA
- 🗨 **Scientific Committee Member** 📅 2009-2022
European Operations Management Association (EurOMA) Annual Conference 📍 Various
- 🗨 **International Advisory Committee Member** 📅 2009-2014
International Congress on Logistics & Supply Chain Management Systems 📍 Various
- 🗨 **International Scientific Committee Member** 📅 2015-2019
International Conference on Industrial Engineering and Systems Management 📍 Various
- 🗨 **Faculty Advisory Committee Member** 📅 2014-2015
Undergraduate Project Management Curriculum and Resources Project for the Project Management Institute 📍 Boston, USA
- 🗨 **Scientific Committee Member** 📅 2016
3rd International Workshop on Transportation and Supply Chain Engineering (IWTSCCE) 📍 Rabat, MOROCCO
- 🗨 **Committee Member** 📅 2016-2019
South Wales Operational Research Discussion Society (SWORDS) 📍 Cardiff, UK
- 🗨 **Scientific Committee Member** 📅 2017
Special Session on "Supply Chain Management & Finance: Emerging Models for Coordination and Governance" at the 24th International Conference on Production Research 📍 Poznan, POLAND
- 🗨 **Member of the Technical Committee** 📅 2018, 2020
IEEE International Technology Management, Operations and Decisions Conference 📍 Marrakech, MOROCCO
- 🗨 **Member of the International Programme Committee** 📅 2019-2025
International Federation for Automatic Control Conference on Manufacturing Modeling, Management and Control 📍 Various

PROFESSIONAL
MEMBERSHIPS

- 🏛 Member of the **Institute for Operations Research and the Management Sciences**
- 🏛 Member of the **Production and Operations Management Society**
- 🏛 Member of the **International Society for Inventory Research**
- 🏛 Committee member of the **South Wales Operational Research Discussion Society (until 2019)**
- 🏛 Technical Committee TC5.2 Member **International Federation of Automatic Control**

RESEARCH
EVALUATIONS

- ⚖ **Fonds National de al Recherche, Luxemburg.** 📅 2020
- ⚖ **Elwood S. Buffa Doctoral Dissertation Award** at the 2018 Decision Sciences Institute Annual Conference in Chicago, USA. 📅 2018
- ⚖ **ESRC Grant Application, Research Councils UK (RCUK).** 📅 2016
- ⚖ **Academy of Finland.** 📅 2014
- ⚖ **Fonds National de al Recherche, Luxemburg.** 📅 2014
- ⚖ **Member of the Selection Committee for the LaLonde Best Paper of**























2013 published in the Journal of Business Logistics.	📅 2014
⚖️ Leverhulme Grant Application.	📅 2014
⚖️ Research & Innovation Affairs Department, Sultan Qaboos University, Sultanate of Oman.	📅 2013
⚖️ National Fund for Scientific and Technological Development, Chilean Government Commission for Scientific and Technological Development.	📅 2012

REVIEWING
ASSIGNMENTS

☺ Applied Mathematical Modelling ☺ Applied Mathematics and Computation ☺ Computer Integrated Manufacturing ☺ Computers & Industrial Engineering ☺ Computers & Operations Research ☺ Critical Finance Review ☺ European Journal of Marketing ☺ European Journal of Operational Research ☺ IEEE Transactions on Automation Science & Engineering ☺ IEEE Transactions on Systems, Manufacturing & Cybernetics ☺ IIE Transactions ☺ IMA Journal of Management Mathematics ☺ International Journal of Applied Management Science ☺ International Journal of Forecasting ☺ International Journal of Information Technology & Decision Making ☺ International Journal of Logistics Systems and Management ☺ International Journal of Logistics: Research & Applications ☺ International Journal of Operations & Production Management ☺ International Journal of Production Economics ☺ International Journal of Production Research ☺ International Journal of Quality and Reliability Management ☺ International Journal of Risk Assessment & Management ☺ International Transactions in Operational Research ☺ Journal of Manufacturing Technology Management ☺ Journal of Operations Management ☺ Journal of Purchasing & Supply Management ☺ Journal of the Operations Research Society ☺ Management Science ☺ OMEGA: International Journal of Management Science ☺ Operations Research ☺ Manufacturing and Service Operations Management ☺ Production and Operations Management ☺ Supply Chain Management: An International Journal ☺ Systems Research and Behavioural Science ☺ The Engineering Economist ☺ Transactions of the Institute of Industrial Engineers ☺ Transport Research Part E ☺ Several book publishers ☺ Amongst many others.

PH.D.
SUPERVISION

🎓 Dr Diego Bermudez Bermejo	📅 May 2024
<i>An integrative multi-factor systems approach to enhance the operational resilience and sustainability of the UK retail payments organizational stakeholders</i>	Third supervisor
🎓 Dr Adel Alamri	📅 April 2018
<i>Imperfect quality items in inventory and supply chain management</i>	Third supervisor
🎓 Dr Carl Philip Hedenstierna	📅 March 2016
<i>Staggered deliveries in production and inventory control</i>	Lead supervisor
🎓 Dr Qinyun Li	📅 Jan 2015
<i>A systems dynamics perspective of forecasting in supply chains</i>	Lead supervisor
🎓 Dr Virginia Marques	📅 Feb 2014
<i>Designing supply chains resilient to non-linear system dynamics</i>	Second supervisor
🎓 Dr Pairach Piboonrunroj	📅 Jan 2013
<i>Supply chain collaboration: Impacts and mediation on firm performance</i>	Lead supervisor
🎓 Po-Ngarm Ratanachote	📅 June 2011
<i>Distribution network dynamics with correlated demands</i>	Lead supervisor
🎓 Dr Jon Gosling	📅 May 2011
<i>Flexibility strategies for engineer-to-order construction supply chains</i>	Second supervisor
🎓 Dr Vinaya Shakla	📅 April 2010
<i>Rogue seasonality detection in supply chains</i>	Second supervisor
🎓 Dr Noorfa Hazlinna Mustaffa	📅 April 2009

	<i>Integrating inventory and transport optimization in multi-retailer supply chains</i>	Lead supervisor
	 Dr Ralph Barker	 May 2006
	<i>Waste assessment and application of improvement techniques in UK private house building supply chains</i>	Third supervisor
	 Dr Andrew Potter	 Nov 2005
	<i>The impact of supply chain dynamics on transport</i>	Third supervisor
	 Dr Takamichi Hosoda	 Sept 2005
	<i>The principles governing the dynamics of supply chains</i>	Lead supervisor
	 Dr Gilbert Aryee	 Jan 2005
	<i>The impact of technology and organizational maturity on supply chain integration performance: A UK perspective</i>	Third supervisor
M.PHIL. SUPERVISION	 Nicole Ayiomamitou, M.Phil	 March 2017
	<i>Improving forecasting capabilities in the 3PL Industry</i>	Second supervisor
	 Ben Worrel, M.Phil	 May 2011
	<i>Design, development, implementation and evaluation of a total productive maintenance system on a toroidal core manufacturing line</i>	Lead supervisor
EXTERNAL ACADEMIC APPOINTMENTS	 Saïd Business School, Oxford University, UK	 2020-2023
	<i>External examiner for the MBA course.</i>	
	 Kedge Business School, Universit de Bordeaux, FRANCE	 Sept 2014
	<i>Committee member for the Habilitation à Diriger des Recherches (HDR) defense by Professor Zeid Mohamed Babai.</i>	
	 Lancaster School of Management, UK	 2011-2014
	<i>External examiner for the M.Res. in Management Science, M.Sc. in Operational Research and Management Science, M.Sc. Logistics and Supply Chain Management, M.Sc. in Management Science and Marketing Analytics.</i>	
	 Brighton University, UK	 2009-2012
	<i>External examiner for the M.Sc. in Business Process Management.</i>	
	 Aston Business School, UK	 2007-2011
	<i>External examiner for the Executive MBA and various M.Sc. programmes.</i>	
	 Greenwich University Business School, UK	 May 2006
	<i>External Panel Member on the review of the MA in e-Logistics and Supply Chain Management program and the MA in Project Management and Supply Chain program.</i>	
EXTERNAL PH.D. EXAMINATIONS	 Dr Hafizah Binti Zulkipli	 Jan 2020
	<i>External examiner</i>	 University of Southampton, UK
	 Dr D Bijulal	 Jan 2011
	<i>External examiner</i>	 Indian Institute of Technology, Bombay, INDIA
	 Dr Robert Boute	 Dec 2006
	<i>External member of the PhD advisory committee</i>	 KULeuven, BELGIUM
	 Dr Francisco Campuzano Bolarin	 April 2006
	<i>External examiner</i>	 Universidad Politecnica De Valencia, SPAIN
	 Dr Felipe A. Villegas	 May 2005
	<i>External examiner</i>	 Manchester Business School, UK

- [J100] Petropoulos, F., Aktas, E., Alumur, S.A., Archetti, C., Ayhan, H., ... Disney, S.M., ... Zhao, X., (2024), Operations Research: Methods and Applications. *Journal of the Operational Research Society*, 75 (3), 423617. DOI: 10.1080/01605682.2023.2253852.
- [J99] Li, Q., Gaalman, G. and Disney, S.M., (2023), On the equivalence of the proportional and damped trend order-up-to policies: An eigenvalue analysis. *International Journal of Production Economics*, 265, 109005. DOI: 10.1016/j.ijpe.2023.109005.
- [J98] Rostami-Tabar, B. and Disney, S.M., (2023), On the order-up-to policy with intermittent integer demand and logically consistent forecasts. *International Journal of Production Economics*, 257, 108763, DOI: 10.1016/j.ijpe.2022.108763.
- [J97] Gijbrecchts, J., Boute, R., Disney, S.M. and Van Meigham, J., (2023), Volume flexibility at responsive suppliers in reshoring decisions: Analysis of a dual sourcing inventory model. Forthcoming in *Production and Operations Management*, DOI: 10.1111/poms.13719.
- [J96] Wang, X., Disney, S.M., and Ponte, B., (2023), On the stationary stochastic response of an order-constrained inventory system. *European Journal of Operational Research*, 304 (2), 543-557. DOI: 10.1016/j.ejor.2022.04.020.
- [J95] Gaalman, G., Disney, S.M. and Wang, X., (2022), When bullwhip increases in the lead time: An eigenvalue analysis of ARMA demand. *International Journal of Production Economics*, 250, 108623. DOI: 10.1016/j.ijpe.2022.108623.
- [J94] Hosoda, T., Disney, S.M. and Zhou, L., (2022), The yield rate paradox in closed-loop supply chains. *International Journal of Production Economics*, 239, 108187, DOI: 10.1016/j.ijpe.2021.108187.
- [J93] Boute, R., Disney, S.M., Gijbrecchts, J. and Van Meigham, J., (2022), Dual sourcing and smoothing under non-stationary demand time series: Re-shoring with SpeedFactories. *Management Science*, 68 (2), 1039-1057, DOI: 10.1287/mnsc.2020.3951.
- [J92] Disney, S.M., Ponte, B. and Wang, X., (2021), Exploring the nonlinear dynamics of order-up-to inventory systems with lost sales. *International Journal of Production Research*, 59 (19), 5809-5830, DOI: 10.1080/00207543.2020.1790687.
- [J91] Michna, Z., Disney, S.M. and Nielsen, P., (2020), The impact of stochastic lead times on the bullwhip effect under correlated demand and moving average forecasts. *OMEGA: The International Journal of Management Science*, 93, 102033. DOI: 10.1016/j.omega.2019.02.002.
- [J90] Hedenstierna, C.P.T., Disney, S.M., Evers, D.R., Holmström, J., Syntetos, A.A. and Wang, X., (2019), Economies of collaboration in build-to-model operations. *Journal of Operations Management*, 65, 753-773. DOI: 10.1002/joom.1014.
- [J89] Petropoulos, F., Wang, X. and Disney, S.M., (2019), The inventory performance of forecasting methods: evidence from the M3-competition data. *International Journal of Forecasting*, 35 (1), 251-265. DOI: 10.1016/j.ijforecast.2018.01.004.
- [J88] Hedenstierna, C.P.T., and Disney, S.M., (2018), Avoiding the capacity cost trap: Three means of smoothing under cyclical production planning. *International Journal of Production Economics*, 201, 149-162. DOI: 10.1016/j.ijpe.2018.04.008.
- [J87] Hosoda, T. and Disney, S.M., (2018), A unified theory of the dynamics of closed-loop supply chains. *European Journal of Operational Research*, 269 (1), 313-326. DOI: 10.1016/j.ejor.2017.07.020.
- [J86] Chintapalli, P., Disney, S.M. and Tang, C.S., (2017), Coordinating supply chains via advance-order discounts, minimum order quantities, and delegations, *Production and Operations Management*, 26 (12), 2175-2186. DOI: 10.1111/poms.12751.
- [J85] Li, Q. and Disney, S.M., (2017), Revisiting rescheduling: MRP nervousness and the bullwhip effect. *International Journal of Production Research*, 55 (7), 1992-2012. DOI: 10.1080/0020754

3.2016.1261196.

- [J84] Ponte, B., Wang, X., de la Fuente, D. and Disney, S.M., (2017), Exploring nonlinear supply chains: The dynamic impact of capacity constraints. *International Journal of Production Research*, 55 (14), 4053-4067. DOI: 10.1080/00207543.2016.1245884.
- [J83] Zhou, L., Naim, M.M. and Disney, S.M., (2017), The impact of product returns and re-manufacturing uncertainties on the dynamic performance of a multi-echelon closed-loop supply chain. *International Journal of Production Economics*, 183, 487-502. DOI: 10.1016/j.ijpe.2016.07.021.
- [J82] Wang, X. and Disney, S.M., (2017), Mitigating variance amplification under stochastic lead-time: The proportional control approach. *European Journal of Operational Research*, 256 (1), 151-162. DOI: 10.1016/j.ejor.2016.06.010.
- [J81] Disney, S.M., (2016), Revisiting activity sampling: a fresh look at binomial proportion confidence intervals. *European Journal of Industrial Engineering*, 10 (6), 724-759. DOI: 10.1504/EJIE.2016.081021.
- [J80] Hedenstierna, C.P.T. and Disney, S.M., (2016), Inventory performance under staggered deliveries and auto-correlated demand. *European Journal of Operational Research*, 249 (3), 1082-1091. DOI: 10.1016/j.ejor.2015.09.060.
- [J79] Disney, S.M., Maltz, A., Wang, X. and Warburton, R.D.H., (2016), Inventory management for stochastic lead times with order crossovers. *European Journal of Operational Research*, 248, 473-486. DOI: 10.1016/j.ejor.2015.07.047.
- [J78] Wang, X. and Disney, S.M., (2016), The bullwhip effect: progress, trends and directions. *European Journal of Operational Research*, 250 (3), 691-701. DOI: 10.1016/j.ejor.2015.07.022.
- [J77] Disney, S.M., Gaalman, G., Hedenstierna, C.P.T. and Hosoda, T., (2015), Fill rate in a periodic review order-up-to policy under auto-correlated normally distributed, possibly negative, demand. *International Journal of Production Economics*, 170, 501-512. DOI: 10.1016/j.ijpe.2015.07.019.
- [J76] Hosoda, T., Disney, S.M. and Gavirneni, N., (2015), The impact of information sharing, random yield, correlation and lead times in closed loop supply chains. *European Journal of Operational Research*, 246, 827-836. DOI: 10.1016/j.ejor.2015.05.036.
- [J75] Piboonrungrroj, P. and Disney, S.M., (2015), Supply chain collaboration in tourism: A transaction cost economics analysis. *International Journal of Supply Chain Management*, 4 (3), 25-31.
- [J74] Boute, R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2014), Coordinating lead-times and safety stocks under auto-correlated demand. *European Journal of Operational Research*, 232 (1), 52-63. DOI: 10.1016/j.ejor.2013.06.036.
- [J73] Li, Q., Disney, S.M. and Gaalman, G., (2014), Avoiding the bullwhip effect using damped trend forecasting and the order-up-to replenishment policy. *International Journal of Production Economics*, 149, 3-16. DOI: 10.1016/j.ijpe.2013.11.010.
- [J72] Wang, X., Disney, S.M. and Wang, J., (2014), Exploring the oscillatory dynamics of a forbidden returns inventory system. *International Journal of Production Economics*, 147, 3-12. DOI: 10.1016/j.ijpe.2012.08.013.
- [J71] Disney, S.M., Warburton, R.W.H. and Zhong, Q-C., (2013), Net present value of the economic production quantity model. *IMA Journal of Management Mathematics*, 24 (4), 423-435. DOI: 10.1093/imaman/dpt002.
- [J70] Disney, S.M. and Warburton, R.W.H., (2012), On the Lambert W function: Economic order quantity applications and pedagogical considerations. *International Journal of Production Economics*, 40 (2), 756-764. DOI: 10.1016/j.ijpe.2011.02.027.
- [J69] Wang, X., Disney, S.M. and Wang, J., (2012), Stability analysis of constrained inventory systems with transportation delay. *European Journal of Operational Research*, 223 (1), 86-95. DOI:

10.1016/j.ejor.2012.06.014.

- [J68] Boute, R.N., Dejonckheere, J., Disney, S.M. and Van de Velde, W., (2012), Bullwhip in a multi-product production setting. *Tijdschrift voor Economie en Management-Review of Business and Economic Literature*, 57 (3), 351-377.
- [J67] Hosoda, T. and Disney, S.M., (2012), A delayed demand supply chain: Incentives for upstream players. *OMEGA: The International Journal of Management Science*. 40 (4), 478-487. DOI: 10.1016/j.omega.2011.09.005.
- [J66] Hosoda, T. and Disney, S.M., (2012), On the replenishment strategy when the market demand information is lagged in a supply chain. *International Journal of Production Economics*, 135 (1), 458-467. DOI: 10.1016/j.ijpe.2011.08.022.
- [J65] Childerhouse, P., Deakins, E., Böhme, T., Towill, D.R., Disney, S.M. and Banomyong, R., (2011), Supply chain integration: An international comparison of maturity. *Asia Pacific Journal of Marketing and Logistics*, 23 (4), 531-552. DOI: 10.1108/13555851111165075.
- [J64] Zhou, L., Towill, D.R. and Disney, S.M., (2010), A pragmatic approach to the design of bullwhip controllers. *International Journal of Production Economics*, 128, 556-568. DOI: 10.1016/j.ijpe.2010.07.023.
- [J63] Cannella, S., Ciancimino, E., Framinan, J.M. and Disney, S.M., (2010), Los cuatro arquetipos de cadena de suministro - The Four Supply Chain Archetypes. *Universia Business Review*, 26 (2), 134-149. In Spanish.
- [J62] Gaalman, G. and Disney, S.M., (2009), On bullwhip in a family of order-up-to policies with ARMA(2,2) demand and arbitrary lead-times. *International Journal of Production Economics*, 121 (2), 454-463. DOI: 10.1016/j.ijpe.2006.11.024.
- [J61] Hosoda, T. and Disney, S.M., (2009), Impact of market demand mis-specification on a two-level supply chain. *International Journal of Production Economics*, 121 (2), 739-751. DOI: 10.1016/j.ijpe.2009.04.024.
- [J60] Potter, A.T., Towill, D.R., Böhme, T., and Disney, S.M., (2009), The influence of multi-product production strategy on factory induced bullwhip. *International Journal of Production Economics*, 47 (20), 5739-5759. DOI: 10.1080/00207540802146148.
- [J59] Syntetos, A.A., Boylan, J.E. and Disney, S.M., (2009), Forecasting for inventory planning: A 50-year review. *Journal of the Operations Research Society*, 60 (S1), 149-160. DOI: 10.1057/jors.2008.173.
- [J58] Childerhouse, P., Towill, D.R. and Disney, S.M., (2009), The effect of schedule volatility on supply chain performance. *International Journal of Logistics: Research and Applications*, 12 (4), 313-328. DOI: 10.1080/13675560903075919.
- [J57] Boute, R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2009) Designing replenishment rules in a two-echelon supply chain with a flexible or an inflexible capacity strategy. *International Journal of Production Economics*, 119, 187-198. DOI: 10.1016/j.ijpe.2009.01.012.
- [J56] Disney, S.M. and Hosoda, T., (2009), The benefit of altruistic behaviour achieved by the order-up-to policy with unmatched proportional feedback controllers in a two-echelon supply chain. *International Journal of Intelligent Systems, Technologies and Applications*, 6 (3-4), 269-286. DOI: 10.1504/IJISTA.2009.024257.
- [J55] Hosoda, T. and Disney, S.M., (2009), On a myth in supply chain management. *Journal of the Japan Industrial Management Association*, 59, 431-436.
- [J54] Boute R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2008), A win-win solution for the bullwhip problem. *Production Planning and Control*, 19 (7), 702-711. DOI: 10.1080/09537280802573767.
- [J53] Towill, D.R., and Disney, S.M. (2008), Managing bullwhip induced risks in supply chains. *International Journal of Risk Assessment and Management*, 10 (3), 238-262. DOI: 10.1504/IJRAM.2

008.021376.

- [J52] Disney, S.M. and Lambrecht, M.R., (2008), On replenishment rules, forecasting and the bullwhip effect in supply chains. *Foundations and Trends in Technology, Information and Operations Management*, 2 (1), 1-80. DOI: 10.1561/0200000010.
- [J51] Childerhouse, P., Disney, S.M., and Towill, D.R., (2008), On the impact of order volatility in the European automotive sector. *International Journal of Production Economics*, 114 (1), 2-13. DOI: 10.1016/j.ijpe.2007.09.008.
- [J50] Lockamy III, A., Childerhouse, P., Disney, S.M., Towill, D.R., and McCormack, K., (2008) The impact of process maturity and uncertainty on supply chain performance: An empirical study. *International Journal of Manufacturing and Technology Management*, 15 (1), 12-27. DOI: 10.1504/IJMTM.2008.018237.
- [J49] Disney, S.M., (2008) Supply chain aperiodicity, bullwhip and stability analysis with Jurys Inners. *IMA Journal of Management Mathematics*, 19 (2), 101-116. DOI: 10.1093/imaman/dpm033.
- [J48] Disney, S.M., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2008), The value of coordination in a two echelon supply chain. *IIE Transactions*, 40 (3), 341-355. DOI: 10.1080/07408170701488003.
- [J47] Hosoda, T., Naim, M.M., Disney, S.M. and Potter, A.T., (2007), Is there a benefit of sharing market sales information? Linking theory and practice. *Computers and Industrial Engineering*, 54 (2), 315-326. DOI: 10.1016/j.cie.2007.07.014.
- [J46] Warburton, R.D.H. and Disney, S.M., (2007), Order and inventory variance amplifications: The equivalence of discrete and continuous time analysis. *International Journal of Production Economics*, 110, 128-137. DOI: 10.1016/j.ijpe.2007.02.021.
- [J45] Disney, S.M., Farasyn, I., Lambrecht, M.R., Towill, D.R. and van de Velde, W., (2007) Controlling bullwhip and inventory variability with the golden smoothing rule. *European Journal of Industrial Engineering*, 1 (3), 241-265. DOI: 10.1504/EJIE.2007.014686.
- [J44] Towill, D.R., Zhou, L. and Disney, S.M., (2007), Reducing the bullwhip effect: Looking through the appropriate lens. *International Journal of Production Economics*, 108 (1-2), 444-453. DOI: 10.1016/j.ijpe.2006.12.024.
- [J43] Chen, Y.F. and Disney, S.M., (2007), The myopic order-up-to policy with a feedback controller. *International Journal of Production Research*, 45 (2), 351-368. DOI: 10.1080/00207540600579532.
- [J42] Boute, R.N., Disney, S.M., Lambrecht, M. and Van Houdt, B., (2007), An integrated production and inventory model to dampen upstream demand variability in the supply chain. *European Journal of Operational Research*, 178 (1), 121-142. DOI: 10.1016/j.ejor.2006.01.023.
- [J41] Hosoda, T. and Disney, S.M., (2006), On variance amplification in a three-echelon supply chain with minimum mean squared error forecasting. *OMEGA: The International Journal of Management Science*, 34, 344-358. DOI: 10.1016/j.omega.2004.11.005.
- [J40] Potter, A. and Disney, S.M., (2006), Bullwhip and batching: An exploration. *International Journal of Production Economics*, 104 (2), 408-418. DOI: 10.1016/j.ijpe.2004.10.018.
- [J39] Gaalman, G. and Disney, S.M., (2006), State space investigation of the bullwhip problem with ARMA(1,1) demand processes. *International Journal of Production Economics*, 104 (2), 327-339. DOI: 10.1016/j.ijpe.2006.05.001.
- [J38] Hosoda, T. and Disney, S.M., (2006), The governing dynamics of supply chains: The impact of altruistic behavior. *Automatica*, 42 (4), 1301-1309. DOI: 10.1016/j.automatica.2006.03.013.
- [J37] Disney, S.M., Farasyn, I., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2006), Taming the bullwhip effect whilst watching customer service in a single echelon of a supply chain. *European Journal of Operational Research*, 173 (1), 151-172. DOI: 10.1016/j.ejor.2005.01.026.
- [J36] Lalwani, C.S., Naim, M.M. and Disney, S.M., (2006), On assessing the sensitivity to uncertainty in distribution network design. *International Journal of Physical Distribution and Logistics*

Management, 36 (1), 5-21. DOI: 10.1108/09600030610642904.

- [J35] Disney, S.M. and Towill, D.R., (2006), A methodology for benchmarking replenishment-induced bullwhip. *Supply Chain Management: An International Journal*, 11 (2), 160-168. DOI: 10.1108/13598540610652555.
- [J34] Hayya, J.C., Kim, J.G., Disney, S.M., Harrison, T.P. and Chatfield, D., (2006), Estimation in supply chain inventory management. *International Journal of Production Research*, 44 (7), 1313-1330. DOI: 10.1080/00207540500338039.
- [J33] Lalwani, C.S., Disney, S.M. and Towill, D.R., (2006), Controllable, observable and stable state space representations of a generalized Order-Up-To policy. *International Journal of Production Economics*, 101 (1), 173-184. DOI: 10.1016/j.ijpe.2005.05.014.
- [J32] Geary, S., Disney, S.M. and Towill, D.R., (2006), On bullwhip in the supply chains: Historical review, present practice and expected likely impact. *International Journal of Production Economics*, 101 (1), 2-18. DOI: 10.1016/j.ijpe.2005.05.009.
- [J31] Disney, S.M., Towill, D.R. and Warburton, R.D.H., (2006), On the equivalence of the control theoretic, differential and difference equation approaches to solving the production and inventory control system design problem. *International Journal of Production Economics*, 101 (1), 194-208. DOI: 10.1016/j.ijpe.2005.05.002.
- [J30] Zhou, L. and Disney, S.M., (2006), Bullwhip and inventory variance in a closed loop supply chain. *OR Spectrum*. 28 (1), 127-149. DOI: 10.1007/s00291-005-0009-0.
- [J29] Zhou, L., Disney, S.M. and Xu, S., (2005), Analysis and optimization of inventory variance and bullwhip in a manufacturing/re-manufacturing system. *Journal of Shanghai Jiaotong University*, 39 (10), 1587-1591. In Chinese.
- [J28] Disney, S.M., Farasyn, I., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2005), Smooth is smart: Bullwhip, inventory, fill-rates and the golden ratio. *Tijdschrift voor Economie en Management-Review of Business and Economic Literature*, L, April, 167-186.
- [J27] Holweg, H., Disney, S.M., Hines, P. and Naim, M.M., (2005), Towards responsive vehicle supply: A simulation-based investigation into automotive scheduling systems. *Journal of Operations Management*, 23 (5), 507-530. DOI: 10.1016/j.jom.2004.10.009.
- [J26] Holweg, H., Disney, S.M., Holmström, J. and Småros, J., (2005), Supply chain collaboration: Making sense of the strategy continuum. *European Management Journal*, 23 (2), 170-181. DOI: 10.1016/j.emj.2005.02.008.
- [J25] Disney, S.M. and Towill, D.R., (2005), Eliminating inventory drift in supply chains. *International Journal of Production Economics*, 93-94, 331-344. DOI: 10.1016/j.ijpe.2004.06.031.
- [J24] Childerhouse, P., Disney, S.M. and Towill, D.R., (2004), A tailored toolkit to enable seamless supply chains. *International Journal of Production Research*, 42 (17), 3627-3646. DOI: 10.1080/00207540410001696014.
- [J23] Disney, S.M. and Grubbström, R.W., (2004), The economic consequences of a production and inventory control policy. *International Journal of Production Research*, 42 (17), 3419-3431. DOI: 10.1080/00207540410001727640.
- [J22] Disney, S.M., Towill, D.R. and Van de Velde, W., (2004), Variance amplification and the golden ratio in production and inventory control. *International Journal of Production Economics*, 90 (3), 295-309. DOI: 10.1016/j.ijpe.2003.10.009.
- [J21] Disney, S.M., Naim, M.M. and Potter, A., (2004), Assessing the impact of e-business on supply chain dynamics. *International Journal of Production Economics*, 89 (2), 109-118. DOI: 10.1016/S0925-5273(02)00464-4.
- [J20] Warburton, R.D.H., Disney, S.M., Towill, D.R. and Hodgson, J.P.E., (2004), Further insights into 'The stability of supply chains'. *International Journal of Production Research*, 42 (3), 639-648. DOI: 10.1080/00207540310001621846.
- [J19] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2004), The impact of

- information enrichment on the bullwhip effect in supply chains: A control engineering perspective. *European Journal of Operational Research*, 153 (3), 727-750. DOI: 10.1016/S0377-2217(02)00808-1.
- [J18] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2003), Dynamics of aggregate planning. *Production Planning and Control*, 14 (6), 497-516. DOI: 10.1080/09537280310001621967.
- [J17] Disney, S.M. and Towill, D.R., (2003) Vendor-managed inventory and bullwhip reduction in a two-level supply chain. *International Journal of Production and Operations Management*. 23 (6), 625-651. DOI: 10.1108/01443570310476654.
- [J16] Disney, S.M. and Towill, D.R., (2003) The effect of VMI dynamics on the bullwhip effect in supply chains. *International Journal of Production Economics*, 85 (2), 199-215. DOI: 10.1016/S0925-5273(03)00110-5.
- [J15] Disney, S.M., Potter A.T. and Gardner, B.M., (2003) The impact of vendor managed inventory on transport operations. *Transportation Research Part E*, 39 (5), 363-380. DOI: 10.1016/S1366-5545(03)00014-0.
- [J14] Disney, S.M. and Towill, D.R., (2003), On the bullwhip and inventory variance produced by an ordering policy. *OMEGA: The International Journal of Management Science*, 31 (3), 157-167. DOI: 10.1016/S0305-0483(03)00028-8.
- [J13] Towill, D.R., Lambrecht, M.R., Disney, S.M. and Dejonckheere, J., (2003), Explicit filters and supply chain design. *Journal of Purchasing and Supply Management*, 9 (2), 73-81. DOI: 10.1016/S1478-4092(03)00002-5.
- [J12] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2003), Measuring and avoiding the bullwhip effect: A control theoretic approach. *European Journal of Operational Research*, 147 (3), 567-590. DOI: 10.1016/S0377-2217(02)00369-7.
- [J11] Naim, M.M., Disney, S.M. and Evans, G.N., (2002), Minimum reasonable inventory and the bullwhip effect in an automotive enterprise: a Foresight Vehicle demonstrator. *SAE 2002 Transactions Journal of Materials and Manufacturing*, 196-203.
- [J10] Disney, S.M. and Towill, D.R., (2002), A procedure for the optimization of the dynamic response for a vendor managed inventory supply chain. *Computers and Industrial Engineering: An International Journal*, 43 (1-2), 27-58. DOI: 10.1016/S0360-8352(02)00061-X.
- [J9] Naim, M.M., Childerhouse, P.C., Disney, S.M. and Towill, D.R., (2002), A supply chain diagnostic methodology: determining the vector of change. *Computers and Industrial Engineering: An International Journal*, 43 (1-2), 135-157. DOI: 10.1016/S0360-8352(02)00072-4.
- [J8] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2002), Transfer function analysis of forecasting induced bullwhip in supply chains. *International Journal of Production Economics*, 78 (2), 133-144. DOI: 10.1016/S0925-5273(01)00084-6.
- [J7] Towill, D.R., Childerhouse, P.C. and Disney, S.M., (2002), Integrating the automotive supply chain: where are we now? *International Journal of Physical Distribution and Logistics Management*, 32 (2), 79-95. DOI: 10.1108/09600030210421705.
- [J6] Disney, S.M. and Towill, D.R., (2002), A discrete transfer function model to determine the dynamic stability of a vendor managed inventory supply chain. *International Journal of Production Economics*, 40 (1), 179-204. DOI: 10.1080/00207540110072975.
- [J5] Disney, S.M., Naim, M.M. and Towill, D.R., (2000), Genetic algorithm optimization of a class of inventory control systems. *International Journal of Production Economics*, 68 (3), 259-278. DOI: 10.1016/S0925-5273(99)00101-2.
- [J4] Towill, D.R., Childerhouse, P. and Disney, S.M., (2000), Speeding up the progress curve towards effective supply chain management. *Supply Chain Management: An International Journal*, 5 (3), 122-130. DOI: 10.1108/13598540010338866.
- [J3] Hong-Minh, S.M., Disney, S.M. and Naim, M.M., (2000), The dynamics of emergency transshipment supply chains. *International Journal of Physical Distribution and Logistics Management*,

30 (9), 788-815. DOI: 10.1108/09600030010351471.

[J2] Hammant, J., Disney S.M., Childerhouse, P. and Naim, M.M., (1999), Modeling the consequences of a strategic supply chain initiative of an automotive after-market operation. *International Journal of Physical Distribution and Logistics Management*, 29 (9), 535-551. DOI: 10.1108/09600039910287501.

[J1] Disney, S.M., Naim, M.M. and Towill, D.R., (1997), Dynamic simulation modeling for lean logistics. *International Journal of Physical Distribution and Logistics Management*, 27 (3), 174-196. DOI: 10.1108/09600039710170566.

BOOK CHAPTERS

[B9] Hedenstrierna, C.P.T., Disney, S.M. and Holmström, J., (2020) Service levels in make-to-order production: 3D printing applications, Chapter 5 in *Managing 3D Printing: Operations Management for Additive Manufacturing*, Edited by Eyers, D., Palgrave Macmillan, ISBN-10: 3030233227.

[B8] Holmström, J., Småros, J., Disney, S.M. and Towill, D.R., (2016) Collaborative supply chain configurations: The implications for supplier performance in production and inventory control. In *Developments in Logistics and Supply Chain Management: Past, Present and Future*, Edited by Pawar, K.S., Rogers, H., Potter, A. and Naim, M.M., Palgrave Macmillan, UK, 27-37, ISBN: 978-1-349-55848-3.

[B7] Potter, A., Lalwani, C., Disney, S.M. and Velho, H., (2016), Modeling the impact of factory gate pricing on transport and logistics. In *Developments in Logistics and Supply Chain Management: Past, Present and Future*, Edited by Pawar, K.S., Rogers, H., Potter, A. and Naim, M.M., Palgrave Macmillan, UK, 231-239, ISBN: 978-1-349-55848-3.

[B6] Hosoda, T. and Disney, S.M., (2008), A generalized order-up-to policy and altruistic behavior in a three-level supply chain. In *Supply Chain Management and Knowledge Management: Integrating Critical Perspectives in Theory and Practice*, Edited by Dwivedi, A. and Butcher, T., Palgrave Macmillan, UK, 190-216, ISBN 978-0-230-57343-7.

[B5] Strohhecker, S., Disney, S.M. and Naim, M.M., (2008), Understanding supply chain dynamics via simulation. Chapter 8 in *Construction Supply Chain Management Handbook*, Edited by O'Brien, W.J., Formoso, C.T., Vrijhoef, R. and London, K.A., CRC Press, Boca Raton, USA, 30pp. ISBN 978-1-4200-4745-5.

[B4] Potter, A.T., Towill, D.R. and Disney, S.M., (2007), Integrating transport into supply chains: VMI. Chapter 14 in *Trends in Supply Chain Design and Management: Technologies and Methodologies*, Edited by Jung, H., Chen, F.F. and Jeong, B., Springer-Verlag, London, UK, 331-344, ISBN 1860-5168.

[B3] Disney, S.M. and Towill, D.R., (2006), Controlling replenishment rule induced bullwhip via good systems design. In *The bullwhip effect in supply chains: A review of methods, components and practical cases* Edited by Carranza, O. and Villegas, F., Palgrave-MacMillan, UK, 95-106. ISBN 1-4039-9558-2.

[B2] Disney, S.M., Potter, A. and Gardner, B., (2004), The impact of VMI on Transport Operations. In *Transport in Supply Chains*, Edited by Lalwani, C., Mason, R., Potter, A. and Yang, B., Cardiff Business School, UK, ISBN 0-9537982-3-2.

[B1] Naim, M.M., Disney, S.M. and Towill, D.R., (2004), Supply Chain Dynamics. Chapter 5 in *Understanding Supply Chains: Concepts, Critique and Futures*, Edited by New, S. and Westbrook, R., Oxford University Press, Oxford, UK, 109-132. ISBN 0-19-925932-1.

CONFERENCE PAPERS

[C136] Singh, Y., Disney, S.M., (2024), Reducing MRP nervousness with advance demand information. *Mini-SPARK Conference*, 13th March, Exeter, UK, 16 pages.

[C135] Li, Q., Gaalman, G.C.J., Disney, S.M., (2024), Dynamic analysis of the damped trend proportional order-up-to policy. *Pre-prints of the 23rd International Working Seminar of Produc-*

tion Economics, 14th-18th February, Innsbruck, AUSTRIA, Vol. 3, pp357-372.

📄 [C134] Hosoda, T., Disney, S.M., Gaalman, G.C.J., (2024), Global dual sourcing: ARMA(1,1) market demand and its decomposition. *Pre-prints of the 23rd International Working Seminar of Production Economics*, 14th-18th February, Innsbruck, AUSTRIA, Vol. 4, pp50-65.

📄 [C133] Singh, Y., Disney, S.M., (2023), Unifying the dynamics of make-to-stock and make-to-order supply chains. *16th International Society for Inventory Research Summer School*, 24th-28th July, Cardiff, UK, 19 pages.

📄 [C132] Eyers, D., Huang, Y., Soroka, A., Syntetos, A., Lahy, A., Disney, S.M., (2023), Pop-up production: Flexible capacity deployment in additive manufacturing for short-term opportunistic production. *30th EurOMA Conference*, 3rd-5th July, Leuven, BELGIUM, 10 pages.

📄 [C131] Hosoda, T., Disney, S.M., Gaalman, G.C.J., (2023), Supply chain dynamics and economics based on autocorrelated price models and linear demand models, *Japan Industrial Management Association 2023 Spring Conference*, 3rd-4th June, Aoyama Gakuin University, Tokyo, JAPAN, 2 pages.

📄 [C130] Hosoda, T., Disney, S.M., Gaalman, G.C.J., (2022), Impact of correlated price sensitive demand on the dynamics and economics of supply chains. *6th World Conference on Production and Operations Management*, 23rd-25th August, Kindai University, Osaka, JAPAN, 10 pages.

📄 [C129] Bermudez, D., Naim, M.M., Disney, S.M., (2022), An integrative visual multifactor analysis of payment system stakeholders strategic reports. *29th EurOMA Conference*, 1st-6th July, Berlin, GERMANY, 11 pages.

📄 [C128] Li, Q., Disney, S.M., Gaalman, G.C.J., (2022), On the equivalence of the proportional and damped trend order-up-to policies: An eigenvalue analysis. *Pre-prints of the 22st International Working Seminar of Production Economics*, 21st-25th February, Innsbruck, AUSTRIA, 16 pages.

📄 [C127] Rostami-Tabar, B., Disney, S.M., (2022), On the order-up-to policy with intermittent integer demand and coherent forecasts. *Pre-prints of the 22st International Working Seminar of Production Economics*, 21st-25th February, Innsbruck, AUSTRIA, 16 pages.

📄 [C126] Gijsbrechts, J., Boute, R.N., Disney, S.M., Van Mieghem, J.A., (2020), Local supply inflexibility in dual-source supply chains: Optimal policy and cost implications. *Pre-prints of the 21st International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 13 pages.

📄 [C125] Hosoda, T., Disney, S.M. and Zhou, L., (2020), Challenges within closed-loop supply chains: Remedies for the conflict between sustainability and system-wide cost. *Pre-prints of the 21st International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 16 pages.

📄 [C124] Boute, R.N., Disney, S.M. and Van Mieghem, J.A., (2020), Global dual sourcing under correlated demand. *Pre-prints of the 21st International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 14 pages.

📄 [C123] Gaalman, G.C.J., Disney, S.M. and Wang, X., (2019), When the bullwhip effect is an increasing function of the lead time. *Manufacturing, Modelling, Management and Control-9th MIM*, 28th-30th August, Berlin, GERMANY. Published in *IFAC PapersOnLine*, 52(13), 2297-2302. DOI: 10.1016/j.ifacol.2019.11.548.

📄 [C122] Disney, S.M., Ponte, B. and Wang, X., (2019), The nonlinear dynamics of order-up-to inventory systems with lost sales. *Manufacturing, Modelling, Management and Control-9th MIM*, 28th-30th August, Berlin, GERMANY. Published in *IFAC PapersOnLine*, 52(13), 2291-2296. DOI: 10.1016/j.ifacol.2019.11.547.

📄 [C121] Meng, X., Purvis, L. and Disney, S.M., (2018), Understanding your supply chain: dynamic value stream mapping for business improvement. *25th International EurOMA Conference*, 24th-26th June, Budapest, HUNGARY.

📄 [C120] Gaalman, G., Disney, S.M. and Wang, X., (2018), Bullwhip behavior as a function of

- the lead-time for the order-up-to policy under ARMA demand. *Pre-prints of the 20th International Working Seminar of Production Economics*, 19th-23rd February, Innsbruck, AUSTRIA, 2, 249-260.
- ☐ [C119] Li, Q. and Disney, S.M., (2018), Inventory performance of the damped trend forecasting method. *Pre-prints of the 20th International Working Seminar of Production Economics*, 19th-23rd February, Innsbruck, AUSTRIA, 1, 249-260.
- ☐ [C118] Kainuma, Y., Sasaki, Y. and Disney, S.M., (2017), Impact of cannibalization in a re-manufacturing supply chain. *24th International Conference on Production Research*, 30th July-3rd August, Poznan, POLAND, 5 pages.
- ☐ [C117] Rostami-Tabar, B. and Disney, S.M., (2017), The bullwhip effect under count time series: The case of first order integer auto-regressive demand processes. *Proceedings of the 2017 International Symposium on Industrial Engineering and Operations Management*, 24th-25th July, Bristol, UK, 229-240.
- ☐ [C116] Hedenstierna, C.P.T., Adam, I.I.H., Disney, S.M. and Dreyer, H.C., (2017), Footfall for finer food forecasts. *24th Annual EurOMA Conference*, 3rd-5th July, Edinburgh, UK, 9 pages.
- ☐ [C115] Hedenstierna, C.P.T., Disney, S.M. and Holmström, J., (2016), Order book management in 3D printing service operations: A design science approach. *23rd Annual EurOMA Conference*, 17th-22nd June, Trondheim, NORMAY, 10 pages.
- ☐ [C114] Wang, X. and Disney, S.M., (2015), Reducing order and inventory variability under stochastic lead-time and correlated demand. *Proceedings of the 6th International Conference on Industrial Engineering and Systems Management*, Edited by Goudalier, M., 21st-23rd October, Seville, SPAIN, 2, 312-321.
- ☐ [C113] Li, Q. and Disney, S.M., (2015), On net stock amplification in the damped trend order-up-to system. *Proceedings of the 6th International Conference on Industrial Engineering and Systems Management*, Edited by Goudalier, M., 21st-23rd October, Seville, SPAIN, 322-328.
- ☐ [C112] Disney, S.M., Maltz, A., Wang, X. and Warburton, R., (2015), The safety stock and inventory cost paradox in a stochastic lead time setting. *26th Production and Operations Management Society Annual Conference*, 8th-11th May, Washington, USA, 10 pages. Invited paper.
- ☐ [C111] Kainuma, Y. and Disney, S.M., (2015), The cascade reuse supply chain at Fuji Xerox: A stochastic analysis. *26th Production and Operations Management Society Annual Conference*, 8th-11th May, Washington, USA, 10 pages.
- ☐ [C110] Hedenstierna, C.P.T. and Disney, S.M., (2014), The inventory ripple effect in just-in-time systems with auto-correlated demand. *Pre-prints of the 18th International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 3, 207-217.
- ☐ [C109] Hosoda, T., Disney, S.M. and Gavirneni, N., (2014), When can advance notice be most beneficial for closed loop supply chains? *Pre-prints of the 18th International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 2, 267-279.
- ☐ [C108] Disney, S.M., Gaalman, G., Hedenstierna, C.P.T. and Hosoda, T., (2014), Fill rate in a periodic review order-up-to policy under correlated normally distributed demand. *Pre-prints of the 18th International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 1, 103-115.
- ☐ [C107] Harris, I. and Disney, S.M., (2014), Leveling product mix in a heijunka board with shortest path algorithms. *Pre-prints of the 18th International Working Seminar of Production Economics*, 24th-28th February, Innsbruck, AUSTRIA, 4, 75-87.
- ☐ [C106] Disney, S.M. and McCullen, P., (2013), Global supply chain design: Understanding costs through dynamic modeling. *18th International Symposium on Logistics*, 7th-10th July, Vienna, AUSTRIA. 8 pages. DOI: 10.13140/2.1.2832.9283.
- ☐ [C105] Kainuma, Y. and Disney, S.M., (2013), Stochastic design of a global closed loop supply chain: Planning and managing the reverse network at Fuji Xerox. *22nd International Conference*

on *Production Research*, 28th July-1st August, Iguassu Falls, BRAZIL. 7 pages.

- ☐ [C104] Disney, S.M., Hoshiko, L., Polley, L. and Weigel, C., (2013), Removing bullwhip from Lexmark's toner operations. *Production and Operations Management Society Annual Conference*, 3rd-6th May, Denver, USA, 10 pages.
- ☐ [C103] Sanchez-Rodrigues, V., Harris, I., Tsai, I-T. and Disney, S.M., (2012), The EU emissions trading scheme and the carbon intensity of supply chains: A UK grocery retail perspective. *4th World Production and Operations Management Conference*, 1st-5th July, Amsterdam, HOLLAND.
- ☐ [C102] Piboonrungrroj, P. and Disney, S.M., (2012), Impact of inter-firm collaboration on firm performance: Comparison from the perspective of different supply chain members. *4th World Production and Operations Management Conference*, 1st-5th July, Amsterdam, HOLLAND.
- ☐ [C101] Gaalman, G. and Disney, S.M., (2012), Bullwhip behavior in the order-up-to policy with ARIMA demand. *4th World Production and Operations Management Conference*, 1st-5th July, Amsterdam, HOLLAND.
- ☐ [C100] Hosoda, T. and Disney, S.M., (2012), Closed loop supply chains: The impact of advance notice and lead-times. *4th World Production and Operations Management Conference*, 1st-5th July, Amsterdam, HOLLAND.
- ☐ [C99] Disney, S.M., Gaalman, G. and Hosoda, T., (2012), Review of stochastic cost functions for production and inventory control. *Pre-prints of the 17th International Working Seminar of Production Economics*, 20th-24th February, Innsbruck, AUSTRIA, 1, 117-128.
- ☐ [C98] Hedenstierna, C.P.T. and Disney, S.M., (2012), Impact of scheduling frequency and shared capacity on production and inventory costs. *Pre-prints of the 17th International Working Seminar of Production Economics*, 20th-24th February, Innsbruck, AUSTRIA, 2, 277-288.
- ☐ [C97] Li, Q. and Disney, S.M., (2012), Damped trend forecasting and the order-up-to replenishment policy. *Pre-prints of the 17th International Working Seminar of Production Economics*, 20th-24th February, Innsbruck, AUSTRIA, 3, 205-216.
- ☐ [C96] Disney, S.M., Warburton, R.D.H. and Zhong Q-C., (2011), Net present value analysis of the economic production quantity. *53rd Annual OR Society Conference Keynote and Short Papers*, Edited by Petrovic, D. and Syntetos, A., 6th-8th September, Nottingham, UK, 29-34.
- ☐ [C95] Piboonrungrroj, P., Disney, S.M. and Williams, S.J., (2011), Mediating effect of transaction costs in supply chain relationships: An empirical examination. *British Academy of Management Annual Conference*, 13th-15th September, Aston University, Birmingham, UK.
- ☐ [C94] Wang, X. and Disney, S.M., (2011), Stability analysis of a constrained inventory system. *21st International Conference on Production Research*, 31st July-4th August, Stuttgart, GERMANY.
- ☐ [C93] Piboonrungrroj, P. and Disney, S.M., (2011), Supply chain collaboration, inter-firm trust and logistics performance: Evidence from the tourism sector: A structural equation model. *18th Annual EurOMA Conference*, 3rd-6th July, Cambridge, UK, 87-96.
- ☐ [C92] Gaalman, G. and Disney, S.M., (2010), Revisiting Magee's production smoothing policy. *17th EurOMA Annual Conference*, 6th-9th June, Porto, PORTUGAL, 10 pages.
- ☐ [C91] Potter, A. and Disney, S.M., (2010), Removing bullwhip from the Tesco supply chain. *Production and Operations Management Society Annual Conference*, 7th-10th May, Vancouver, CANADA. Paper No. 015-0397, 19 pages.
- ☐ [C90] Zhou, L., Naim, M.M. and Disney, S.M., (2010), Dynamic performance of a recycling supply chain. *Pre-prints of the 16th International Working Seminar of Production Economics*, 1st-5th March, Innsbruck, AUSTRIA, 2, 623-634.
- ☐ [C89] Disney, S.M. and Warburton, R.D.H., (2010), On the Lambert W function: EOQ applications and pedagogical considerations. *Pre-prints of the 16th International Working Seminar of Production Economics*, 1st-5th March, Innsbruck, AUSTRIA, 1, 129-140.
- ☐ [C88] Marques, V.L., Naim, M.M. and Disney, S.M., (2010), The impact of capacitated logis-

- tics operations on supply chain dynamics. *Pre-prints of the 16th International Working Seminar of Production Economics*, 1st-5th March, Innsbruck, AUSTRIA, 3, 365-376.
- ☐ [C87] Gaalman, G. and Disney, S.M., (2010), The base stock policy: Comparison with the order-up-to policy for ARMA(p,q) demand. *Pre-prints of the 16th International Working Seminar of Production Economics*, 1st-5th March, Innsbruck, AUSTRIA, 2, 175-186.
- ☐ [C86] Piboonrungrroj, P. and Disney, S.M., (2009) Supply chain collaboration in tourism: A transaction cost economics perspective. *Second Biennial Conference of the International Association for Tourism Economics*, 11th-13th December, Chiang Mai, THAILAND.
- ☐ [C85] Disney, S.M., (2009), Revisiting activity sampling: A fresh look at binomial proportion confidence intervals. *Logistics Research Network Annual Conference*, 9th-11th September, Cardiff, UK, 8 pages.
- ☐ [C84] Piboonrungrroj, P. and Disney, S.M., (2009), Tourism supply chains: A conceptual framework. *PhD Networking Conference, Exploring Tourism III: Issues in PhD Research*, 1st-2nd July, University of Nottingham, UK.
- ☐ [C83] Piboonrungrroj, P. and Disney, S.M., (2009), Methodological implications of the research design in tourism supply chain collaboration. *18th EDAMBA Summer Academy*, 23rd-29th July, Sorèze, FRANCE, 18 pages.
- ☐ [C82] Hosoda, T. and Disney, S.M., (2009), On strategy when demand information is lagged in a supply chain. *Manufacturing and Service Operations Management Annual Conference*, 28th-30th June, MIT, Cambridge, USA.
- ☐ [C81] Gaalman, G. and Disney, S.M., (2009), A new inventory policy for a two echelon supply chain. *16th EurOMA Annual Conference*, 14th-17th June, Göteborg, SWEDEN, 10 pages.
- ☐ [C80] Ratanachote, P. and Disney, S.M., (2009) Distribution network dynamics with correlated demands. *16th EurOMA Annual Conference*, 14th-17th June, Göteborg, SWEDEN.
- ☐ [C79] Syntetos, A.A., Boylan, J.E. and Disney, S.M., (2008), Inventory, forecasting and planning: A 50 year review. *Keynote paper at 50th Annual OR Society Conference*, 9th-11th September, The University of York, UK. In *Keynote Papers, OR50*, edited by Shaw, D., 83-103.
- ☐ [C78] Gaalman, G. and Disney, S.M., (2008), Production smoothing policies: The case of ARMA demand, *European Operations Management Association Annual Conference (EurOMA)*, June 15th-18th, Groningen University, HOLLAND.
- ☐ [C77] Hosoda, T. and Disney, S.M., (2008), A lagged demand supply chain. *15th International Symposium on Inventories*, 22nd-26th August, Budapest, HUNGARY.
- ☐ [C76] Gaalman, G. and Disney, S.M., (2008), Production smoothing policies and the bullwhip effect. *Pre-prints of the 15th International Working Seminar of Production Economics*, 3rd-7th March, Innsbruck, AUSTRIA, 72-81.
- ☐ [C75] Ratanachote, P. and Disney, S.M., (2008), On the square root law for bullwhip: The case of arbitrary lead-times and AR(1) demand, *Pre-prints of the 15th International Working Seminar of Production Economics*, 3rd-7th March, Innsbruck, AUSTRIA, 199-212.
- ☐ [C74] Hosoda, T. and Disney, S.M., (2008), On market demand misspecification in a two-level supply chain. *Thirteenth Manufacturing and Service Operations Management Conference*, 5th-6th June, University of Maryland, USA.
- ☐ [C73] Childerhouse, P., Deakins, E., Böhme, T., Towill, D.R., Disney, S.M. and Banomyong, R., (2007), Supply chain integration: An international comparison of maturity. *The 5th International Conference on Supply Chain Management and Information Systems*, 9th-12th December, Melbourne, AUSTRALIA.
- ☐ [C72] Disney, S.M., (2007), The dynamics of material flow in supply chains. Keynote speech at the *49th Annual Conference of the Operational Research Society*, 4th-6th September, Edinburgh, UK, 3-24.
- ☐ [C71] Disney, S.M. and Hosoda, T., (2007), The benefit of altruistic behavior achieved by the

OUT policy with unmatched proportional feedback gains in a two-echelon supply chain. *19th International Conference on Production Research*, 29th July-2nd August, Valparaiso, CHILE.

□ [C70] Childerhouse, P., Disney, S.M. and Towill, D.R., (2007), The effects of schedule volatility on supply chain performance. *19th International Conference on Production Research*, 29th July-2nd August, Valparaiso, CHILE.

□ [C69] Boute, R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2007), The impact of correlation in demand on lead times and safety stocks. *Manufacturing and Service Operations Management Conference*, June 18th-19th, Beijing, CHINA.

□ [C68] Gaalman, G. and Disney, S.M., (2007), On the echelon-order-up-to policy: A stochastic optimal control approach. *Manufacturing and Service Operations Management Conference*, 18th-19th June, Beijing, CHINA.

□ [C67] Hosoda, T., Naim, M.M., Disney, S.M. and Potter, A., (2007), Revisiting the benefit of information sharing for everyday low price products. *Manufacturing and Service Operations Management Conference*, 18th-19th June, Beijing, CHINA.

□ [C66] Dorrington, P., Rich, N., Disney, S.M., (2006), A new approach to micro-manufacturing road-mapping: Methodology and initial findings. *Proceedings of the Second European Conference on Management of Technology*, 10th-12th September, Birmingham, UK, 206-213.

□ [C65] Disney, S.M., McCullen, P. and Saw, R.J., (2006), Dynamic supply chain design: Square root law for bullwhip. *Proceedings of the International Symposium on Logistics*, 9th-12th July, Beijing, CHINA.

□ [C64] Childerhouse, P., Disney, S.M. and Towill, D.R., (2006), Schedule volatility in the European automotive sector. *Proceedings of the International Symposium on Logistics*, 9th-12th July, Beijing, CHINA.

□ [C63] Mustafa, N.H. and Disney, S.M., (2006), Stochastic periodic review model of a multi retailer inventory routing problem. *Pre-prints of the 14th International Working Conference on Production Economics*, February, Igls, AUSTRIA, 4, 113-114.

□ [C62] Gaalman, G. and Disney, S.M., (2006), On the bullwhip effect of order-up-to policies for ARMA(2,2) demand and arbitrary lead-times. *Pre-prints of the 14th International Working Seminar of Production Economics*, February, Igls, AUSTRIA, 4, 55-64.

□ [C61] Boute, R., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2006), The impact of order variance amplification/dampening on supply chain performance. *Pre-prints of the 14th International Working Seminar of Production Economics*, February, Igls, AUSTRIA, 3, 1-12.

□ [C60] Boute, R.N., Disney, S.M., Lambrecht, M.R. and Van Houdt, B., (2006), A win-win solution for the bullwhip problem. *International Conference on Information Systems, Logistics and Supply Chains*, 15th-17th May, Lyon, FRANCE.

□ [C59] Zhou, L. and Disney, S.M., (2005), Exploitation of grey functions in forecasting series with limited history: An improved grey theory approach. *1st International Conference on Operations and Supply Chain Management*, 15th-17th December, Bali, INDONESIA, K10-18.

□ [C58] Hosoda, T. and Disney, S.M., (2005), Altruistic behavior in a two-echelon inventory problem with information sharing. *Manufacturing and Service Operations Management Conference*, 27th-28th June, Northwestern University, Illinois, USA.

□ [C57] Mustafa, N.H. and Disney, S.M., (2005), Approaches to solving the Inventory Routing Problem. *EurOMA International Conference on Operations and Global Competitiveness*, 19th-22nd June, Budapest, HUNGARY, 767-774.

□ [C56] Holweg, M. and Disney, S.M., (2005), The evolving frontiers of the bullwhip problem. *EurOMA International Conference on Operations and Global Competitiveness*, 19th-22nd June, Budapest, HUNGARY, 707-716.

□ [C55] Boute, R.N., Disney, S.M., Lambrecht, M., Van de Velde, W. and Van Houdt, B., (2005), Bullwhip reduction and win-win strategies. *EurOMA International Conference on Operations and*

Global Competitiveness, 19th-22nd June, Budapest, HUNGARY, 697-706.

- ☐ [C54] Gaalman, G. and Disney, S.M., (2005), Investigation of an order-up-to policy with conditional expectation forecasting and arbitrary lead-times. *EurOMA International Conference on Operations and Global Competitiveness*, 19th-22nd June, Budapest, HUNGARY, 775-785.
- ☐ [C53] Potter, A., Disney, S.M. and Towill, D.R., (2005), Determining when a little bullwhip may be helpful. *18th International Conference on Production Research*, 1st-4th August, Salerno, ITALY.
- ☐ [C52] Warburton, R.D.H. and Disney, S.M., (2005), Variance amplification: The equivalence of discrete and continuous time analyses. *18th International Conference on Production Research*, 1st-4th August, Salerno, ITALY.
- ☐ [C51] Banomyong, R., Basnet, C., Childerhouse, P., Deakins, E., Disney, S.M., Naim, M.M. and Towill, D.R., (2005), Internationalising the Quick Scan Audit Methodology. *18th International Conference on Production Research*, 1st-4th August, Salerno, ITALY.
- ☐ [C50] Xu, S., Waller, B., Zhou, L. and Disney, S.M., (2005), Comparison of ELV systems in mature and rapid growth markets. *18th International Conference on Production Research*, 1st-4th August, Salerno, ITALY.
- ☐ [C49] Potter, A., Hosoda, T., Al-Kaabi, H., Naim, M.M. and Disney, S.M., (2004), Application of modeling techniques in the Quick Scan. *The 4th Industrial-Academic Annual Conference on Supply Chain and Logistics Management*, 19th-20th August, Thammasat University, Bangkok, THAILAND, 83-94.
- ☐ [C48] Hosoda, T. and Disney, S.M., (2004), The role of an ordering policy as an inventory and cost controller. *Logistics Research Network Annual Conference*, 8th-10th September, Dublin, Ireland, 268-275.
- ☐ [C47] Hayya, J.C., Disney, S.M., Harrison, T., Chatfield, D. and Kim, J., (2004), Estimation procedures in supply chains: Inventory management. *CORS-INFORMS Conference*, 16th-19th May, Banff, Alberta, CANADA.
- ☐ [C46] Aryee, G., Naim, M.M., Lalwani, C., Disney, S.M., (2004), A maturity model for collaboration and technological integration in the supply chain. *11th International Annual EurOMA Conference*, 27th-29th June, INSEAD, Fontainebleau, FRANCE, 1, 33-42.
- ☐ [C45] Hosoda, T. and Disney, S.M., (2004) An analysis of a three echelon supply chain model with minimum mean squared error forecasting. *Second World Production and Operations Management Conference*, 30th April-3rd May, Cancun, MEXICO.
- ☐ [C44] Zhou, L. and Disney, S.M., (2004) Application of Åströms method to supply chain inventory problems: A reverse logistics scenario. *Workshop of the Gesellschaft für Operation Research e.V., Operations Research and Reverse Logistics*, 25th-26th March, Eindhoven, HOLLAND.
- ☐ [C43] Zhou, L., Disney, S.M., Lalwani, C.S. and Wu, H.L., (2004), Reverse logistics: A study of bullwhip in continuous time. *Proceedings of the 5th World Congress on Intelligent Control and Automation*, 15th-19th June, Hangzhou, CHINA, 6 (4) 3539-3542.
- ☐ [C42] Grubbström, R.W., Bogataj, L., Bonney, M.C., Disney, S.M. and Tang, O., (2004), Interlinking MRP theory and production and inventory control models. *Proceedings of the 13th International Working Conference on Production Economics*, 16th-20th February, Igls, AUSTRIA, 2, 259-278.
- ☐ [C41] Potter, A. and Disney, S.M., (2004), Bullwhip and batching: An exploration. *Proceedings of the 13th International Working Conference on Production Economics*, 16th-20th February, Igls, AUSTRIA, 4, 245-258.
- ☐ [C40] Gaalman, G. and Disney, S.M., (2004) State space investigation of bullwhip with arbitrary demand processes, *Proceedings of the 13th International Working Conference on Production Economics*, 16th-20th February, Igls, AUSTRIA, 4, 95-114.
- ☐ [C39] Seitz, M.A., Disney, S.M. and Naim, M.M., (2003), Reverse logistics and reverse supply chain management in the automotive sector. *8th International Symposium of Logistics*, 6th-8th July,

Seville, SPAIN, 595-602.

- ☐ [C38] Guan T.S., Mason, R. and Disney, S.M., (2003), MOVE: Modified Overall Vehicle Effectiveness. *8th International Symposium of Logistics*, 6-8th July, Seville, SPAIN, 641-649.
- ☐ [C37] Potter, A., Lalwani, C., Disney, S.M. and Velho, H., (2003), Modeling the impact of factory gate pricing on transport and logistics. *8th International Symposium of Logistics*, 6-8th July, Seville, SPAIN, 625-630.
- ☐ [C36] Potter, A., Naim, M.M. and Disney, S.M., (2003), Utilizing a production system archetype to attenuate bullwhip in a grocery supply chain. *8th International Symposium of Logistics*, 6-8th July, Seville, SPAIN, 131-140.
- ☐ [C35] Holmström, J., Småros, J., Disney, S.M. and Towill, D.R., (2003), Collaborative supply chain configurations: The implications for supplier performance in production and inventory control. *8th International Symposium of Logistics*, 6-8th July, Seville, SPAIN, 455-464.
- ☐ [C34] Chen, Y.F. and Disney, S.M., (2003), The order-up-to policy 'sweet spot' - Using proportional controllers to eliminate the bullwhip problem. *EurOMA POMS Conference*, 16th-18th June, Como Lake, ITALY, 2, 551-560..
- ☐ [C33] Disney, S.M., Farasyn, I., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2003), Creating win-win scenarios from the bullwhip problem-By design not accident. *EurOMA POMS Conference*, 16th-18th June, Como Lake, ITALY, 2, 561-570.
- ☐ [C32] Disney, S.M., Holmström, J., Kaipia, R. and Towill, D.R. (2003), Exploitation of VMI information for production planning and inventory control. *EurOMA POMS Conference*, 16th-18th June, Como Lake, ITALY, 2, 571-580.
- ☐ [C31] Childerhouse, P., Disney, S.M., Lockamy III, A., McCormack, K. and Towill, D.R., (2003), Proven BPR trajectories for effective supply chain change management. *EurOMA POMS Conference*, 16th-18th June, Como Lake, ITALY, 2, 71-80.
- ☐ [C30] Seitz, M.A., Disney, S.M. and Naim, M.M., (2003), Managing product recovery operations: The case of automotive engine re-manufacturing. *EurOMA POMS Conference*, 16th-18th June, Como Lake, ITALY, 2, 1045-1053.
- ☐ [C29] Disney, S.M. and Grubbström, R.W., (2003), The economic consequences of a production and inventory control policy. *17th International Conference on Production Research*, 3rd-7th August, Virginia, USA.
- ☐ [C28] Disney, S.M., Towill, D.R. and Warburton, R., (2003), On the equivalence of the control theoretic, differential and difference equation approaches to solving the production and inventory control system design problem. *17th International Conference on Production Research*, 3rd-7th August, Virginia, USA.
- ☐ [C27] Geary, S., Disney, S.M. and Towill, D.R., (2003), Bullwhip in supply chains Past, present and future. *17th International Conference on Production Research*, 3rd-7th August, Virginia, USA.
- ☐ [C26] Childerhouse, P., Disney, S.M. and Towill, D.R., (2003), A tailored toolkit to enable seamless supply chains. *17th International Conference on Production Research*, 3rd-7th August, Virginia, USA.
- ☐ [C25] Lalwani, C.S., Disney, S.M. and Towill, D.R., (2003), Observable and controllable state space representations of a generalized order-up-to policy. *17th International Conference on Production Research*, 3rd-7th August, Virginia, USA.
- ☐ [C24] Disney, S.M. and Towill, D.R., (2002), Inventory drift and instability in order-up-to policies. *Proceedings of the 12th International Symposium on Inventory Research*, August 19th-24th, Budapest, HUNGARY.
- ☐ [C23] Seitz, M.A., Naim, M.M. and Disney, S.M., (2002), Issues and challenges in managing the reverse supply chain. *Logistics Research Network Annual Conference*, 4th-6th September 2002, Birmingham, UK.
- ☐ [C22] Disney, S.M., Lalwani, C.S. and Naim, M.M., (2002), Dynamic design and risk assessment

of logistics distribution networks. *Proceedings of the 7th International Symposium of Logistics and the 2nd International Symposium on Operations Strategy*, Edited by Sadler, I., Power, D. and Dapiran, G.P., 14th-17th July, Melbourne, AUSTRALIA, 437-444.

□ [C21] Dejonckheere, J., Disney, S.M., Farasyn, I., Janssen, F., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2002), Production and inventory control: The variability trade-off. *Proceedings of the 9th EurOMA Conference*, 2nd-4th June, Copenhagen, DENMARK.

□ [C20] Naim, M.M., Disney, S.M. and Evans, G.N., (2002), Minimum reasonable inventory and the bullwhip effect in an automotive enterprise: a 'Foresight Vehicle' demonstrator. *SAE 2002 World Congress*. In *Foresight Vehicle Technology: Consumer Driven Design, Manufacturing, Supply Chain, and Purchasing, an SAE Publication*, edited by Sporton, M., *Proceedings of the Society of Automotive Engineers World Congress*, 4th-7th March, Detroit, USA, 103-111.

□ [C19] Disney, S.M., Potter, A. and Naim, M.M., (2002), Assessing the impact of e-business on supply chain dynamics. *Pre-prints of the 12th International Working Seminar of Production Economics*, 18th-22nd February, Igls, AUSTRIA, 3, 103-113.

□ [C18] Disney, S.M. and Towill, D.R., (2002), A robust and stable analytical solution to the production and inventory control problem via a z-transform approach. *12th International Working Seminar of Production Economics*, 18th-22nd February, Igls, AUSTRIA, 1, 37-47.

□ [C17] Disney, S.M. and Towill, D.R., (2001), A linear PIC system that can operate in a non-linear world. *Proceedings of the IFAC MIM 2001 Conference in Manufacturing, Modeling, Management and Control*, 2nd-4th August, Prague, CZECH REPUBLIC.

□ [C16] Disney, S.M. and Towill, D.R., (2001), The effect of VMI on the bullwhip effect, *International Conference on Production Research*, 30th July-2nd August, Prague, CZECH REPUBLIC.

□ [C15] Disney, S.M., Holmström, J., Kaipia, R. and Towill, D.R., (2001), Implementation of a VMI production and distribution control system. *International Symposium of Logistics*, 8th-10th July, Salzburg, AUSTRIA, 187-194.

□ [C14] Childerhouse, P., Towill, D.R. and Disney, S.M., (2001), Industrial evaluation of a toolkit for improving material flow in supply chains. *International Symposium of Logistics*, 8th-10th July, Salzburg, AUSTRIA, 157-164.

□ [C13] Towill, D.R., Lambrecht, M.R., Disney, S.M. and Dejonckheere, J., (2001), Explicit filters and supply chain design. In *What really matters in Operations Research, Proceedings of the 8th EurOMA*, 3rd-4th June, Bath, UK, 401-411.

□ [C12] Disney, S.M., Holweg, M., Hines, P. and Naim, M.M., (2000) Modeling information flows in the automotive supply chain-A simulation based sensitivity analysis of potential improvements. *Logistics Research Network Annual Conference*, Sept 6th-8th, Cardiff, UK, 161-172.

□ [C11] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2000) Matching your orders to the needs and economies of your supply chain. *Proceedings of the 7th EurOMA Conference*, Ghent, Belgium, June 4th-7th. In *Operations Management-Crossing borders and boundaries: The changing role of operations*, edited by Van Dierdonck, R. and Vereecke, A., 181-174.

□ [C10] Childerhouse, P., Disney, S.M. and Towill, D.R., (2000), The uncertainty circle as a value stream audit tool: A case study to identify the BPR requirements of the European automotive sector. *Pre-prints of the 11th International Working Seminar of Production Economics*, February 21st-25th, Igls, AUSTRIA, 3, 119-130.

□ [C9] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2000), Transfer function analysis of forecasting induced bullwhip in supply chains. *Pre-prints of the 11th International Working Seminar of Production Economics*, February 21st-25th, Igls, AUSTRIA, 1, 73-84.

□ [C8] Towill, D.R., Disney, S.M. and Childerhouse, P., (1999), The seamless supply chain: Fact or fantasy. *15th International Conference on Production Research*, August, Limerick, IRELAND, 647-650.

□ [C7] Disney, S.M., Naim, M.M. and Towill, D.R., (1999), A decision support system for eval-

uation of European logistics outsourcing. *15th International Conference on Production Research*, August, Limerick, IRELAND, 1, 625-628.

📄 [C6] Disney, S.M., Naim, M.M. and Towill, D.R., (1999), Improving the effectiveness of supply chains. *15th International Conference on Production Research*, August, Limerick, IRELAND, 637-640.

📄 [C5] Childerhouse, P., Disney, S.M., and Naim M.M., (1999), A Quick Scan method for supply chain diagnostics. *4th International Symposium on Logistics*, 11th-14th July, Florence, ITALY, 775-761.

📄 [C4] Towill, D.R., Disney S.M. and Childerhouse, P., (1999), Diffusion dynamics of supply chain management. *Proceedings VI International EurOMA Conference on Managing Operations/Networks*, 7th-8th June, Venice, ITALY, 321-328.

📄 [C3] Disney, S.M., Naim, M.M, and Towill, D.R, (1998), Genetic algorithm based optimization of a class of inventory control systems. *Pre-prints of the 10th International Working Seminar of Production Economics*, February, Igls, AUSTRIA, 3, 191-204.

📄 [C2] Disney, S.M., Childerhouse, P. and Naim, M.M., (1997), The development of supply chain structures in the automotive aftermarket sector. *Proceedings of the Logistics Research Network Conference*, 16th-17th September, Huddersfield, UK.

📄 [C1] Disney, S.M., Naim, M.M. and Towill, D.R., (1997), Development of a fitness measure for an inventory and production control system. *2nd International Conference on Genetic Algorithms in Engineering Systems: Innovations and Applications*, IEE Conference Publication Number 446, 2nd-4th September, Glasgow, UK, 351-356.

EDITORIALS

📄 [E3] Lun, Y.H., Quaddus, M., Naim, M.M. and Disney, S.M., (2016), Editorial: Special Issue on Innovative Service and Manufacturing Design. *International Journal of Production Economics*, 171 (2), 163-164. DOI: 10.1016/j.ijpe.2015.11.010.

📄 [E2] Disney, S.M., Bogataj, M. and Tang, O., (2012), Editorial: Special Issue of the Sixteenth International Working Seminar on Production Economics, Innsbruck 2010. *International Journal of Production Economics*, 70 (2), 557-558. DOI: 10.1016/j.ijpe.2012.07.019.

📄 [E1] Disney, S.M., (2009), Editorial for the special issue: Papers from the 19th International Conference on Production Research. *International Journal of Logistics: Research and Applications*, 12 (4), 231-232. DOI: 10.1080/13675560903075919.

OTHER MEDIA

📄 [M15] Disney, S.M. and Holmström, J. (2022), European Management Journals most cited papers - Supply Chain Collaboration: Making Sense of the Strategy Continuum, Matthias Holweg, Stephen Disney, Jan Holmström and Johanna Småros *An interview with Stephen Disney and Jan Holmström, in 4 parts*: Part 1, <https://www.youtube.com/watch?v=jDYWVC1Xnz4&t=9s>, Part 2, <https://www.youtube.com/watch?v=24wxxClhqxY&t=5s>, Part 3, <https://www.youtube.com/watch?v=PdW-MhHXfBw&t=1s>, Part 4, https://www.youtube.com/watch?v=L0_d6hTVD6E&t=1s.

📄 [M15] Disney, S.M., (2022), Demand forecasting *An interview with Carel Bezuidenhout from Massey University, New Zealand*, <https://webcast.massey.ac.nz/Mediasite/Play/0aef6a0034f147818b0e43e7b79378ac1d>.

📄 [M14] Disney, S.M., Holmström, J., Lawson, B., Pil, F. and Tang, C.S., (2021), Uncertainty in Operations and Supply Chain Management: Special Issue Call for Papers, *Journal of Operations Management*, <https://insight.tiny.us/JOM-Uncertainty-SI>.

📄 [M13] Disney, S.M., Vermorel, J. and Chandler, K., (2021), The bullwhip effect, *Lokad TV*, Interview available to view at https://www.youtube.com/watch?v=T23gtBVEVn8&ab_channel=Lokad.

📄 [M12] Boute, R., Disney, S.M. and Van Mieghem, J.A., (2018), How ‘SpeedFactories’ help companies adept to capricious consumers. Edited by S. Waikar for *IndustryWeek.com*, 31st August, avail-

able for download at <https://www.industryweek.com/leadership/how-speed-factories-help-companies-adapt-capricious-consumers>.

- 📄 [M11] Boute, R., Disney, S.M. and Van Mieghem, J.A., (2018), How ‘SpeedFactories’ help companies adept to capricious consumers. Edited by S. Waikar for *Kellogg Insight*, 3rd July, available for download at <https://insight.kellogg.northwestern.edu/article/how-speed-factories-help-companies-adapt-to-capricious-consumers>.
- 📄 [M10] Chintapalli, P., Disney, S.M. and Tang, C.S., (2017), Coordinating supply chains via advance-order discounts, minimum order quantities, and delegations: The case of two manufacturers. Unpublished paper. Available at SSRN: <https://ssrn.com/abstract=2980183>.
- 📄 [M9] Disney, S.M., Naim, M.M., Williams, S.J., Nussey, I. and Grubbström, R.W., (2015), In Memoriam: Professor Denis R. Towill 1933-2015. *International Journal of Production Economics*, 170 (A), iii-iv.
- 📄 [M8] Disney, S.M., (2015), Network Diagram Activity. *Teaching Resource for the Project Management Institute*.
- 📄 [M7] Disney, S.M., (2015), Welcome. *Logistics and Operations Management Section Annual Conference*, Cardiff Business School, 9th January, Cardiff, UK.
- 📄 [M6] Disney, S.M. and Wang, X., (2015), Supply chain chaos. *Research Briefing, Cardiff Business School*, 8 pages. DOI: 10.13140/2.1.1528.2243.
- 📄 [M5] Disney, S.M., (2013), Cracking the bullwhip. *Synergy - The Alumni Magazine for Cardiff Business School*, 14, 14.
- 📄 [M4] Disney, S.M., (2009), Bullwhip effect in supply chains. *SciTopics webpage*. Available at http://www.scitopics.com/Bullwhip\Effect_in_Supply_Chains.html.
- 📄 [M3] Disney, S.M., (2008), The bullwhip problem in supply chains. *UKFutureTV*. Available to view at www.ukfuturetv.com/stevedisney.wmv
- 📄 [M2] Bailey, K., Edwards-Ambler, S., Disney, S.M., Simons, D. and Lang, T., (2007), UK Food Supply in the 21st Century: The New Dynamic. *Chatham House Briefing Paper*, CHBP/07/01.
- 📄 [M1] Lambrecht, M.R., Dejonckheere, J., Towill, D.R. and Disney, S.M., (2001), Taming the Bullwhip Effect: In search of new replenishment rules in supply chains. *Business Inzicht*, 8, October.

CONFERENCE
PRESENTATIONS

- 📄 [P84] Michna, Z., Disney, S.M., Nielsen, P. (2024), The bullwhip effect with correlated lead times and auto-correlated demand, *33rd European Conference on Operational Research*, June 30th-July 3rd, Copenhagen, DENMARK.
- 📄 [P83] Disney, S.M., (2024), Inventory management under stochastic lead times: A tutorial. *UEBS-ASU Interdisciplinary Workshop on Supply Chain Resilience*, June 11th-13th, Exeter, UK.
- 📄 [P82] Singh, Y. and Disney, S.M., (2024), Reducing MRP nervousness: Integrating value stream mapping and control theory. *34rd Production and Operations Management Society Annual Conference*, April 25th-29th, Minneapolis, USA.
- 📄 [P81] Hosoda, T., Disney, S.M. and Gaalman, G.C.J., (2024), ARMA(1,1) market demand decomposition in a global dual sourcing setting. *34rd Production and Operations Management Society Annual Conference*, April 25th-29th, Minneapolis, USA.
- 📄 [P80] Singh, Y. and Disney, S.M., (2024), "Reducing MRP nervousness with the proportional Order-Up-To policy", *The Second Operations Analytics Workshop*, 15th-16th April, KULeuven, BELGIUM.
- 📄 [P79] Hosoda, T., Disney, S.M. and Gaalman, G.C.J., (2023), Autocorrelated price-sensitive demand and the dynamics of supply chains, *INFORMS Annual Meeting*, October 15th-18th, Phoenix, USA.
- 📄 [P78] Disney, S.M., (2023), Discrete control theory for inventory management: A tutorial. *Keynote talk at the 16th International Society for Inventory Research Summer School*, 24th-28th

July, Cardiff, UK.

- [P77] Singh, Y. and Disney, S.M., (2023), The dynamics of the transition from make-to-stock to make-to-order, *Western Operations Research Discussion Society*, July 19th, University of Exeter Business School, UK.
- [P76] Singh, Y. and Disney, S.M., (2023), Integrating value stream mapping and control theory: A new dynamic supply chain model, *33rd Production and Operations Management Society Annual Conference*, May 21st-25th, Orlando, USA.
- [P75] Singh, Y. and Disney, S.M., (2023), Dynamic modeling of a manufacturer: A unified theory of make-to-order and make-to-stock supply chains, *Research Methods Centre: Operations Analytics Event*, April 17th-19th, University of Exeter Business School, UK.
- [P74] Disney, S.M., Ponte, B. and Wang, X., (2023), The nonlinear dynamics of order-up-to inventory systems with lost sales, *Research Methods Centre: Operations Analytics Event*, April 17th-19th, University of Exeter Business School, UK.
- [P73] Disney, S.M., (2023), Discrete control: Theoretical background, *Research Methods Centre: Operations Analytics Event*, April 17th-19th, University of Exeter Business School, UK.
- [P72] Disney, S.M., (2022), Global dual sourcing with SpeedFactories: The case of correlated demand, *World Intelligent Manufacturing Summit*, November 22nd-25th, Nanjing, CHINA.
- [P71] Hosoda, T., Disney, S.M. and Gaalman, G.C.J., (2022), Impact of customers reaction to autocorrelated price sensitive demand on supply chains, *53rd Annual Conference of the Decision Sciences Institute*, November 19th-21st, Houston, USA.
- [P70] Hosoda, T., Disney, S.M. and Zhou, L., (2019), The more, the better, usually: An analytical investigation of the yield rate paradox in closed-loop supply chains. *50th Annual Conference of the Decision Sciences Institute*, 23rd-25th November, New Orleans, USA.
- [P69] Disney, S.M., (2019), Discrete control theory. *14th International Society for Inventory Research Summer School*, 26th-30th August, Leuven, BELGIUM.
- [P68] Gaalman, G., Disney, S.M. and Wang, X., (2019), When the bullwhip effect is an increasing function of the lead time. *30th Production and Operations Management Society Annual Conference*, 2nd-6th May, Washington, USA.
- [P67] Hosoda, T., Disney, S.M. and Zhou, L., (2019), Yield paradox in closed loop supply chains with auto- and cross-correlated demand and return processes. *30th Production and Operations Management Society Annual Conference*, 2nd-6th May, Washington, USA.
- [P66] Disney, S.M., Purvis, L. and Meng, X., (2019), Production optimization for short shelf-life products. *30th Production and Operations Management Society Annual Conference*, 2nd-6th May, Washington, USA.
- [P65] Disney, S.M., Purvis, L. and Meng, X., (2019), Production optimization for short shelf-life products. *Quarterly Forecasting Forum*, 12th April, Cardiff, UK.
- [P64] Disney, S.M., (2019), Discrete control theory. *The spectrum of systems approaches to problem solving - from systems engineering to systems dynamics to systems thinking. A workshop hosted by the UK Chapter of the Systems Dynamics Society and the EPSRC ReRun project*, March 22nd, Cardiff Business School, UK.
- [P63] Disney, S.M., (2019), The trails and tribulations of running a research group. *Logistics and Operations Management Section Annual Conference*, Cardiff Business School, 11th January, Cardiff, UK.
- [P62] Meng, X., Purvis, L. and Disney, S.M., (2019), Production optimization for short shelf-life products. *Logistics and Operations Management Section Annual Conference*, Cardiff Business School, 11th January, Cardiff, UK.
- [P61] Boute, R.M., Disney, S.M. and Van Mieghem, J.A., (2018), Dual sourcing and smoothing under non-stationary demand time series: Re-shoring with ‘SpeedFactories’. *INFORMS Annual*

Meeting, 4th-7th November, Phoenix, Arizona, USA.

- [P60] Li, Q. and Disney, S.M., (2018), Forecast nervousness in supply chains: Should we use consumer demand or retailer orders? *OR60 Anniversary Conference*, 11th-13th September, Lancaster, UK.
- [P59] Boute, R.M., Disney, S.M. and Van Mieghem, J.A., (2018), Dual sourcing and smoothing under non-stationary demand time series: Re-shoring with ‘SpeedFactories’, *20th International Symposium on Inventories*, 20th-24th August, Budapest, HUNGARY.
- [P58] Disney, S.M., Meng, X. and Purvis, L., (2018), Understanding your supply chain: Dynamic value stream mapping and forecast nervousness. *29th Production and Operations Management Society Annual Conference*, 5th-8th May, Houston, USA.
- [P57] Disney, S.M., (2018), The ingredients for a good paper-setting up a winner. *Logistics and Operations Management Section Annual Conference*, Cardiff Business School, 12th January, Cardiff, UK.
- [P56] Meng, X., Purvis, L. and Disney, S.M., (2018), Understanding your supply chain: Dynamic value stream mapping and forecast nervousness. *Logistics and Operations Management Section Annual Conference*, Cardiff Business School, 12th January, Cardiff, UK.
- [P55] Rostami-Tabar, B. and Disney, S.M., (2017), The impact of temporal aggregation on production and inventory costs. *OR59 Annual Conference*, 12th-14th September, Loughborough, UK.
- [P54] Chintapalli, P., Disney, S.M. and Tang, C.S., (2017), Coordinating supply chains via advance-order discounts, minimum order quantities, and delegations. *INFORMS Annual Conference*, 22nd-25th October, Houston, USA.
- [P53] Boute, R., Disney, S.M. and Van Mieghem, J.A., (2017), Global dual sourcing and order smoothing. *INFORMS Annual Conference*, 22nd-25th October, Houston, USA.
- [P52] Hosoda, T. and Disney, S.M., (2017), On the dynamics of closed loop supply chains with auto- and cross-correlated demand and return processes. *7th International Symposium on Operations Management and Strategy*, 9th-11th June, Tokyo, JAPAN.
- [P51] Chintapalli, P., Disney, S.M. and Tang, C., (2017), Coordinating supply chains via advance-order discounts, minimum order quantities, and delegations. *28th Production and Operations Management Society Annual Conference*, 5th-8th May, Seattle, USA.
- [P50] Hedenstierna, C.P.T., Disney, S.M., Evers, D., Holmström, J., Syntetos, A.A. and Wang, X., (2017), Policy for outsourcing in 3D printing service operations. *Logistics and Operations Management Section Annual Conference*, 13th January, Cardiff, UK.
- [P49] Wang, X. and Disney, S.M., (2017), The bullwhip effect in supply chains: Progress, trends and directions. *Logistics and Operations Management Section Annual Conference*, 13th January, Cardiff, UK.
- [P48] Disney, S.M., (2017), The bullwhip effect in supply chains. *Risk, resilience and robustness of dynamic supply networks; bridging mathematical models and practice*, 11th-13th January, Edinburgh, UK.
- [P47] Hosoda, T. and Disney, S.M., (2016), Lead time paradox in closed loop supply chains with auto- and cross-correlated demand and return processes. *OR58 Annual Conference of the Society of Operational Research*, 6th-8th September, Portsmouth, UK.
- [P46] Disney, S.M., (2016) Plenary: The bullwhip effect in supply chains. *Stochmod: The EURO Working Group on Stochastic Modeling*, 11th-13th July, Louvain-la-Neuve, BELGIUM.
- [P45] Li, Q. and Disney, S.M., (2016), Frequency response analysis of demand information sharing and production smoothing in a two echelon supply chain. *International Institute of Forecasting Workshop on Supply Chain Forecasting for Operations*, 28th-29th June, Lancaster, UK.
- [P44] Petropoulos, F., Wang, X., Disney, S.M. and Syntetos, A., (2016), The inventory performance of forecasting methods: a reanalysis of the M3-competition monthly industry data. *International Institute of Forecasting Workshop on Supply Chain Forecasting for Operations*, 28th-29th

June, Lancaster, UK.

- [P43] Wang, X., Petropoulos, F., Disney, S.M. and Syntetos, A., (2016), On the inventory performance of forecasting methods: a reanalysis of the M3-competition monthly industry data. *36th International Symposium of Forecasting*, 19th-22nd June, Santander, SPAIN.
- [P42] Chintapalli, P., Disney, S.M. and Tang, C., (2016), Value of advance demand information in supply chains. *27th Production and Operations Management Society Annual Conference*, 6th-9th May, Orlando, USA.
- [P41] Zhou, L., Naim, M.M. and Disney, S.M., (2016), Dynamic performance of a three echelon supply chain with a Kanban policy in remanufacturing process. *19th International Working Seminar of Production Economics*, 22nd-26th February, Innsbruck, AUSTRIA.
- [P40] Petropoulos, F., Wang, X., Disney, S.M. and Syntetos, A., (2016), The inventory performance of forecasting methods: a reanalysis of the M3-competition monthly industry data. *Logistics and Operations Management Section Annual Conference*, 15th January, Cardiff, UK.
- [P39] Talluri, S. and Disney, S.M., (2015), Effects of distribution shapes on inventory models in global supply chains. Research Panel moderated by Saldanha, J. and Tyworth, J.E., *Decision Sciences Institute Annual Conference*, 21st-24th November, Seattle, USA.
- [P38] Hosoda, T., Disney, S.M. and Gavirneni, N., (2015), Dynamics of closed loop supply chains. *5th International Conference on Industrial Engineering and Operations Management*, 3rd-5th March, Dubai, UNITED ARAB EMIRATES.
- [P37] Disney, S.M. and Petropoulos, F., (2015), Forecast combinations using multiple starting points. *Logistics and Operations Management Section Annual Conference*, 9th January, Cardiff, UK.
- [P36] Disney, S.M., Kanabar, V. and Thomas, A., (2014), Integration of Project Management across the Curriculum - An Interdisciplinary Perspective. Professional Panel moderated by Mesikomer, C. and Klein, G., *Decision Sciences Institute Annual Conference*, 22nd-25th November, Tampa, Florida, USA.
- [P35] Li, Q. and Disney, S.M., (2014), Creating an advanced order stream with the proportional order-up-to policy. *20th Conference of the International Federation of Operational Research Societies*, 13th-18th July, Barcelona, SPAIN.
- [P34] Disney, S.M., (2014), The bullwhip effect in supply chains. *The Supply Chain Forum*, 4th March, Whittlebury, UK.
- [P33] Li, Q. and Disney, S.M., (2013), An adaptive damped trend Order-Up-To replenishment system. *OR55 Annual Conference of the Society of Operational Research*, 3rd-5th September, Exeter, UK.
- [P32] Hosoda, T. and Disney, S.M., (2013), The impact of information and lead-times in a closed loop supply chain. *26th European Conference on Operational Research*, 1st-4th July, Rome, ITALY.
- [P31] Boute, R., Dejonckheere, J., Disney, S.M. and van de Velde, W., (2012), Bullwhip in a multi-product production setting. *Stochastic Modelling for Inventory and Lead Time Management Decision Support - A Symposium in Honour of Professor Marc Lambrecht*, 31st October, Leuven, BELGIUM.
- [P30] Wang, X. and Disney, S.M., (2012), Exact safety stock solutions with stochastic lead-times. *INFORMS 2012 International Conference*, 24th-27th June, Beijing, CHINA.
- [P29] Maltz, A. and Disney, S.M., (2012), Understanding lead time variability in global supply chains. *22nd Annual North American Research Symposium on Purchasing and Supply Chain Management*, 15th-16th March, Phoenix/Chandler, Arizona, USA.
- [P28] Hosoda, T. and Disney, S.M., (2011), Delay in market demand information. *International Symposium on Operations Management and Strategy*, 17th-19th June, Yokohama, JAPAN.
- [P27] Piboonrungrroj, P. and Disney, S.M., (2011), Using R to test transaction cost measurement for supply chain relationship: A structural equation model. *The R User Conference*, 16th-18th


August. Warwick, UK.


- [P26] Disney, S.M., Warburton, R.D.H. and Zhong, Q-C., (2010), On the Lambert W function: EOQ applications, pedagogical considerations and EPQ extensions. *Annual Conference of the Welsh Institute of Mathematical and Computer Sciences*, 21st December, Cardiff, UK.
- [P25] Hosoda, T. and Disney, S.M., (2009), Cost impact of demand process misspecification in a retailer-manufacturer supply chain. *Conference of the Japanese Operations Management and Strategy Association*, June 20th, Aoyama Gakuin University, Tokyo, JAPAN.
- [P24] McCullen, P. and Disney, S.M., (2008), Dynamic supply network design: integrating inventory and transportation modeling. *50th Annual Conference of the Operational Research Society*, 9th-11th September, York, UK.
- [P23] Hosoda, T. and Disney, S.M., (2008), How should we cope with the demand process mis-specification issue? A two-level supply chain case. *50th Annual Conference of the Operational Research Society*, 9th-11th September, York, UK.
- [P22] Hosoda, T. and Disney, S.M., (2008), On the choice of strategy for consignment stocking. *50th Annual Conference of the Operational Research Society*, 9th-11th September, York, UK.
- [P21] Disney, S.M., Boylan, J. and Syntetos, A., (2008), The impact of forecasting judgment on inventory control. *50th Annual Conference of the Operational Research Society*, 9th-11th September, York, UK.
- [P20] Gaalman, G. and Disney, S.M., (2007), The evolution of ARMA demand in supply chains: A state space approach. *49th Annual Conference of the Operational Research Society*, 4th-6th September, Edinburgh, UK.
- [P19] Boute, R., Disney, S.M., Lambrecht, M. and Van Houdt, B., (2006), Solving the lead-time interaction problem in a two echelon supply chain under AR(1) demand. *Annual INFORMS International Conference*, 25th-28th June, HONG KONG.
- [P18] Hosoda, T. and Disney, S.M., (2006), The proportional order-up-to policy and altruistic behaviour in a three echelon supply chain. *Annual INFORMS International Conference*, 25th-28th June, HONG KONG.
- [P17] Disney, S.M., Chen, Y.F., van de Velde, W., Warburton, R., Gaalman, G., Lambrecht, M. and Towill, D.R., (2006), Costing the bullwhip effect in supply chains. *Annual INFORMS International Conference*, June 25th-28th, HONG KONG.
- [P16] Warburton, R. and Disney, S.M., (2006), Cyclic demand problems in the frequency domain. *Annual INFORMS International Conference*, 25th-28th June, HONG KONG.
- [P15] Woo, T.T. and Disney, S.M., (2006), Co-ordination and collaboration in the UK coinage industry. *Annual INFORMS International Conference*, 25th-28th June, HONG KONG.
- [P14] Gaalman, G. and Disney, S.M., (2006), Optimal linear inventory replenishment policies in a two-stage supply chain with arbitrary lead-times. *Annual INFORMS International Conference*, 25th-28th June, HONG KONG.
- [P13] Disney, S.M., (2005), Supply chain aperiodicity, bullwhip and stability analysis with Jury's Inners. *The 17th Tri-annual Conference of the International Federation of Operational Research Societies*, 11th-15th July, Waikiki, Hawaii, USA.
- [P12] Boute, R.N., Disney, S.M., Lambrecht, M., Van de Velde, W. and Van Houdt, B., (2005) Win-win policies for the bullwhip problem. *Production and Operations Management Society Annual Conference*, 29th April-2nd May, Chicago, USA.
- [P11] Zhou, L., Disney, S.M. and Towill, D.R., (2004), Bullwhip reduction in supply chains - Whose lens are we looking through? *Proceedings of the 13th International Symposium on Inventory Research*, 22nd-27th August, Budapest, HUNGARY.
- [P10] Disney, S.M., Farasyn, I., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2004), The golden ratio in production and inventory control. *Second World Production and Operations*


Management Conference, 30th April-3rd May, Cancun, MEXICO.


- [P9] Zhou, L., Disney, S.M. and Towill, D.R., (2003), A medley of approaches to solving the bullwhip problem in continuous time. *EURO/INFORMS Joint International Meeting*, 6th-10th July, Istanbul, TURKEY.
- [P8] Disney, S.M., Farasyn, I., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2003), Taming the Bullwhip whilst watching customer service levels. *EURO/INFORMS Joint International Meeting*, 6th-10th July, Istanbul, TURKEY.
- [P7] Disney, S.M., Farasyn, I., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2003), Forecasting the ARMA demand pattern. *EURO/INFORMS Joint International Meeting*, 6th-10th July, Istanbul, TURKEY.
- [P6] Dejonckheere, J., Disney, S.M., Farasyn, I., Janssen, F., Lambrecht, M., Towill, D.R. and Van de Velde, W., (2002), An analytical solution to availability in supply chains. *The 16th Tri-annual Conference of the International Federation of Operational Research Societies*, 8th-12th July, Edinburgh, UK.
- [P5] Dejonckheere, J., Disney, S.M., Lambrecht, M.R. and Towill, D.R., (2002), The impact of information sharing in supply chains. *The 16th Tri-annual Conference of the International Federation of Operational Research Societies*, 8th-12th July, Edinburgh, UK.
- [P4] Childerhouse, P.C., Naim, M.M., Disney, S.M. and Towill, D.R., (2001), Supply chain configuration. *UK Symposium on Supply Chain Alignment*, July, Liverpool, UK.
- [P3] Disney, S.M. and Towill, D.R., (2001), Application of discrete linear control theory to vendor managed inventory. *Second course on Laplace transform and input-output techniques for MRP*, 22nd-25th February, Bled, SLOVENIA.
- [P2] Disney, S.M. and Naim, M.M., (1999), Improving supply chain efficiency. *Third Annual Supply Chain Management Conference*, March, Tulane University, USA.
- [P1] Disney, S.M. and Naim, M.M., (1999), The Quick Scan method for supply chain diagnostics. *Third Annual Supply Chain Management Conference*, March, Tulane University, USA.


TEACHING
EXPERIENCE AT
UNIVERSITY OF
EXETER BUSINESS
SCHOOL

 **B.Sc., Operations Management module to 2nd year undergraduates.** *Subjects:* Introduction to Operations Management. Process Choice and Process Mapping. Project Management. Decision Making under Uncertainty. Causal Loop Diagrams. Value Stream Mapping. Layouts. Just in Time. Inventory Management. Theory of Constraints. Quality Management. Service Perspectives. Planning and Control.

 **B.Sc., Operations Analytics module to 3rd year undergraduates.** *Subjects:* Queuing theory. Linear programming. Shortest path analysis. Minimum spanning trees.

 **M.Sc. in Business Analytics, Maths and Statistics for Business Analytics module.** *Subjects:* Introduction to Statistics. R and R-studio. Probability. Venn Diagrams. Counting Rules. Discrete and Continuous Distributions. Point Estimation. Sampling Distributions. Time Series Analysis. Intermittent demand forecasting. Confidence Interval Estimations. Activity Sampling. Linear and Multiple Regression. Hypothesis Testing.

 **M.Sc. in Business Analytics and M.Sc. in Global Operations Management, Supply Chain Analytics module.** *Subjects:* Dynamic value stream mapping. Scheduling strategies: Pull, Level, Forecast, Batch, Order-up-to, and Proportional order-up-to. Forecasting for supply chains. Production planning. Economic order quantity, Economic production quantity. Heijunka. EARS analysis. MRP nervousness.

 **M.Sc. in Entrepreneurship and Innovation Management and M.Sc. in Global Operations Management, Operations and Project Management module.** *Subjects:* Transformation model. Process mapping. Process choice. Process layouts. Inventory management. Newsvendor model. Supply chain collaboration. Make to order and 3D printing. Global dual sourc-

ing with SpeedFactories. Work breakdown structure. Project network diagrams. Project crashing and Gantt Charts. Decision making under uncertainty. Breakeven analysis. Earned value management. The last planner.

TEACHING
EXPERIENCE AT
CARDIFF BUSINESS
SCHOOL

🎓 **MBA, Operation Analysis module in the Full-time, Executive and Modular MBA courses.** *Subjects:* Supply Chain Management. Optimization and Linear Programming. Performance Measurement and Inventory Management. Activity Sampling. Process Mapping. Benchmarking. Project Management. Value Stream Mapping. Forecasting. Production Planning. Materials Requirement Planning. MRP Nervousness.

🎓 **M.Sc. in International Transport, Logistics and Transport Modeling module.** *Subjects:* Soft Systems Analysis. Beer Game. Forecasting. Bullwhip. e-commerce. Supply Chain Management. Supply Chain Collaboration. Project Management. Queuing Theory. Linear Programming. Square Root Law for Inventory and Bullwhip. Distribution Network Design. Monte Carlo Simulation. Discrete Event Simulation. Project Management. Shortest Path Algorithms.

🎓 **M.Sc. in Logistics and Operations Management, Operations Management module.** *Subjects:* Personal Time Management. Process Choice. Nagare Lines. Net Present Value and the Internal Rate of Return. Break-even Analysis. Escapable and In-escapable Costs. Make V Buy decisions. ABC Analysis. EOQ and EPQ. Re-order Point Model. Economic Stock-out Probability, Service Levels. Quality, Quality Functional Deployment and the House of Quality. Collaboration in 3D Printing Make-To-Order Supply Chains. Supply Chain Contracts. Dual Sourcing.

🎓 **M.Sc. in Logistics and Operations Management, Operations Analytics module.** *Subjects:* Probability, Estimation and Confidence Intervals. Box plots. Forecasting with Simple Methods. Naïve, Moving Average and Simple Exponential Smoothing. Performance Measurement, Accuracy and Implications. Forecasting with Trends, Holt's Method and Damped Trend. Forecasting for Intermittent Demand, Croston's Methods and the Syntetos-Boylan Algorithm. Forecasting and Inventory Control, Newsvendor Model and Buy-back Contracts. Forecasting and Supply Chain Management. Order-up-to Policy. Forecasting, Bullwhip, and MRP Nervousness. Proportional order-up-to Policy. ARIMA Modeling and Conditional Expectation. Fill-rates and Availability.

🎓 **M.Sc. in Logistics and Operations Management, Project Management module.** *Subjects:* Work Breakdown Structure. Project Scope and Definition. Project Network Diagrams. Gantt Charts. Earned Value Management. Decision Making Under Uncertainty. Economics of Projects. Case Studies in Projects. Project Crashing. The Last Planner. Ethics and Leadership.

🎓 **M.Sc. in Lean Operations, Lean Scheduling and Materials Management module.** *Subjects:* Heijunka Board. Queuing Theory. MRP. Kanban Systems. Forecasting. Inventory Management. Waterspiders. Mura, Muda and Muri.

🎓 **DBA, Operations Management module.** *Subjects:* History of OM. Process Choice. Process Improvement. Break-even Analysis. Inventory. Production Planning and Scheduling. Forecasting. Linear Programming. Project Management. Supply Chain Management. Bullwhip. Time Management. Quality Functional Deployment.

TEACHING AT THE
CARDIFF SCHOOL
OF MATHEMATICS

🎓 **M.Sc. Applied Operational Research, Supply Chain Modeling module.** *Subjects:* Bullwhip. Beer Game. Inventory Management. Customer Service Metrics. Forecasting. Spreadsheet Modeling. z-transforms. Control Theory. Stability. Supply Collaboration Strategies. Process Modeling and Mapping.

TEACHING
EXPERIENCE AT
BOSTON
UNIVERSITY

🎓 **M.S. in Administrative Studies, Global Services and Supply Chain Management module.** *Subjects:* Beer Game. Inventory Management. Economic Order Quantity. Process Mapping. Value Stream Mapping. Bullwhip. Supply Chain Strategy. Distribution Network Design. Supply Chain Ethics. Global Outsourcing. Order-Up-To Policy. Spreadsheet Simulation. Transport and Warehousing. INCO Terms. Center of Gravity Modeling. Shortest Path Algorithm. Decoupling

Point Analysis. Supply Chain Collaboration.

🎓 **BA Management Studies, Project Management module.** *Subjects:* Project Strategy. Charter and Scope. Gantt Charts. Project Network Diagrams. Break-even Analysis. Activity Sampling. Net Present Value. Work Breakdown Structure. Earned Value. Decision Trees. Decision Making Under Uncertainty. Ethics and Team Work. Process Mapping.

🎓 **MS Management, Quantitative and Qualitative Decision Making module.** *Subjects:* Decision Theory and Values. Decision Trees and Pay-off. Sociological, Political & Psychological Aspects. Bounded Rationality. Satisficing Behavior. Descriptive Statistics. Group Decision Making. Group Think. Delphi Studies. Bayesian Conditional Probability, Chi Square and Nonparametric Testing. Decision Making in a Lean Manufacturing Environment. Decision Making in a Supply Chain.

EXECUTIVE
EDUCATION

🎓 **Setting the Cadence of Your Pacemaker.** A one-day executive education course covering: Dynamic value stream mapping, Replenishment strategy selection, Forecasting, Planning book, Shop floor communication, and Supplier MRP. Delivered to ACME Automotive Industry of India in June 2017. A two-day version of this course was given to Yeo Valley in September 2017. This course has also been delivered to other companies who wish to remain anonymous.

🎓 **Executive MBA and Modular MBA, Operations Management module.** *Subjects:* Supply Chain Management. Optimization. Linear Programming. Performance Measurement and Inventory Management. Activity Sampling. Process Mapping. Benchmarking. Project Management.

🎓 **UK Intellectual Property Office DBA, Operations Management module.** *Subjects:* Process Mapping and Visualization. Process choice. Process Improvement. Economics of Operations. Inventory. Linear Programming. Project Management. Supply Chain Management. Bullwhip. Forecasting. Quality. Continuous Improvement and Quality Functional Deployment.