Professor Roberto Rossi

BEng, MEng, PhD, FHEA
Personal Chair in Uncertainty Modelling

University of Edinburgh Business School
29 Buccleuch place, Edinburgh, EH8 9JS, UK
Phone: +44(0)1316515239
Email: robros@gmail.com
http://gwr3n.github.io

Edinburgh, August 6, 2026

I hold the Personal Chair in Uncertainty Modelling and I am Full Professor at the University of Edinburgh Business School. My research focuses on automated reasoning under uncertainty. I conduct cross-disciplinary methodological as well as applied research in decision making under uncertainty, artificial intelligence, operational research and supply chain management.

Employment

Aug. 2019 — . . .	**Full Professor at the University of Edinburgh Business School, UK** Personal Chair in Uncertainty Modelling
Aug. 2021 — Jul. 2025	**Head of Group at the University of Edinburgh Business School, UK** Management Science and Business Economics group, leads a team of 25+ academic and research staff members
Aug. 2017 — Jul. 2020 (3 years)	**Director at the University of Edinburgh Business School, UK** Director of Postgraduate Education, coordinates a team of 13 MSc & (E)MBA programme directors, responsible for over 650 postgraduate students
Aug. 2015 — Jul. 2019 (4 years)	**Reader at the University of Edinburgh Business School, UK** Management Science and Business Economics (MSBE)
Jan. 2012 — Jul. 2015 (3 years, 6 months)	**Lecturer at the University of Edinburgh Business School, UK** Management Science and Business Economics (MSBE)
Dec. 2008 — Dec. 2011 (3 years)	**Assistant Professor (UD) at Wageningen University, NL** Logistics, Decision, and Information Sciences (LDI)
Aug. 2008 — Dec. 2008 (5 months)	**Postdoctoral Researcher at University College Cork, IRL** Cork Constraint Computation Centre (4C)
Feb. 2008 — Jun. 2008 (5 months)	**Assistant Lecturer at University College Cork, IRL** Department of Computer Science
Oct. 2007 — Jun. 2008 (9 months)	**Demonstrator at University College Cork, IRL** Department of Computer Science
Nov. 2005 — Jul. 2008 (2 years, 10 months)	**Graduate Researcher at University College Cork, IRL** Cork Constraint Computation Center (4C)
Apr. 2005 — Sep. 2005 (6 months)	**Research Assistant at University College Cork, IRL** Cork Constraint Computation Center (4C)

Visiting & honorary positions

Jan. 2012 — Dec. 2013 (2 years)	**External Assistant Professor (UD) at Wageningen University, NL** Logistics, Decision, and Information Sciences (LDI)
Sep. 2014 (1 week)	**Visiting Research Scientist** Institute of Population Studies, Hacettepe University, Turkey supported by the Scientific and Technological Research Council of Turkey (TUBITAK) under Grant No. MAG-110M500

Education

2012 — 2013	**PgCert, Academic Practice** University of Edinburgh, UK
2005 — 2008	**PhD in Science, Computer/Management** Department of Computer Science, University College Cork, IRL Titolo dichiarato equipollente al titolo di Dottore di Ricerca dell'ordinamento universitario italiano. Decreto di equipollenza MIUR Prot. n. 0001296 24/05/2018
2002 — 2005	**MEng, Computer Engineering** Università di Bologna, ITA Laurea Specialistica in Ingegneria Informatica — classe 35/S
1999 — 2002	**BEng, Computer Engineering** Università di Bologna, ITA Laurea Triennale in Ingegneria Informatica — classe 9

Fellowships

Oct. 2025 — . . .	**Fellow of the Generative AI Laboratory** University of Edinburgh, UK
Jan. 2014 — . . .	**Fellow of the UK Higher Education Academy** University of Edinburgh, UK
Jan. 2012 — . . .	**External Fellow of the Wageningen School of Social Sciences** Wageningen University, NL
Jul. 2010 — Dec. 2011 (1 year, 6 months)	**Fellow of the Wageningen School of Social Sciences** Wageningen University, NL
Mar. 2009 — Jun. 2010 (1 year, 4 months)	**Candidate Fellow of the Wageningen School of Social Sciences** Wageningen University, NL

Honors & awards

2023	**Excellence in Teaching Award** Individual teaching performance, University of Edinburgh
2023, 2022, 2018, 2016, 2013	**Sustained Excellence Contribution Award** University of Edinburgh
2023, 2018	**Best Reviewer Award** OMEGA: the International Journal of Management Science
2021	**EPSRC Peer Review Outstanding Contribution** the Engineering and Physical Sciences Research Council
2016	**Outstanding Contribution in Reviewing Award** the European Journal of Operational Research
2015	**Best Overall Teacher Award nomination** University of Edinburgh Student Association Teaching Awards, 2015
2006	**ISA Student Medal Awards** Shortlisted among the four most commercially viable software

Postgraduate supervision

Post-doctoral researchers

Jul 2022 — Jun 2023 (1 year)	**Dr. Zhen Chen** College of Economics and Management, Southwest University, Chongqing, China supported by the China Scholarship Council visiting scholar scheme
Nov 2019 — Oct 2022 (3 years)	**Dr. Alejandro Alcoba** TRAIN@Ed Fellow supported by Horizon 2020 Marie Skłodowska-Curie Actions COFUND scheme
Jan 2018 — Jan 2019 (1 year)	**Dr. Lijing Tan** Shenzhen Institute of Information Technology, Shenzhen, China supported by the China Scholarship Council visiting scholar scheme

Current PhD students

2025 — . . .	**Anh (Damien) Vo** "Risk-averse Reinforcement Learning for Inventory Lateral Transshipment", University of Edinburgh, UK supported by UEBS Management Science and Business Economics Scholarship

Completed PhDs

2018 — 2023	**Xiyuan Ma** "Transshipment in stochastic inventory systems", University of Edinburgh, UK supported by UEBS Management Science and Business Economics Scholarship
2017 — 2023	**Carolina Toczycka** "Business Model Transformation via Data-driven Innovation and Big Data Analytics," University of Edinburgh, UK supported by EPSRC Industrial Case Award, co-funded by Costain ltd
2015 — 2019	**Mengyuan Xiang** "Mathematical Programming Heuristics for Nonstationary Stochastic Inventory Control," University of Edinburgh, UK *Current employment:* Assistant Professor, School of Intelligent Finance and Business, Entrepreneur College, Xi'an-Jiaotong Liverpool University, China
2009 — 2014	**Willem A. Rijpkema** "Effective use of product quality information in food supply chain logistics," Wageningen University, NL supported by EU FP6 Q-Pork Chain project *Current employment:* Product Group Manager at DFE Pharma, Netherlands

Visiting PhD students

May 2024 — Aug 2024 (3 months)	**Ciaran O'Connor** Department of Computer Science, University College Cork, Ireland supported by Science Foundation Ireland
Sep 2016 — Aug 2017 (1 year)	**Chen Zhen** Department of Management Science and Engineering, School of Economics and Management of Beihang University, China supported by China Scholarship Council
May 2015 — Jul 2015 (3 months)	**Alejandro G. Alcoba** Department of Computer Architecture, University of Malaga, Spain supported by Ministerio de Economía y Competitividad

PhD examination committee membership

2026	Miguel Garcia Matas, University of Edinburgh (Business), UK
2026	Luke Fairley, Lancaster University, UK
2025	Yifei Xie, University of Edinburgh (Informatics), UK
2025	Josh Fogg, University of Edinburgh (Mathematics), UK
2024	Johanna Wiesflecker, University of Edinburgh (Business), UK
2019	Maria Skarleth Carrales Escobedo, University of Edinburgh (Business), UK
2019	David Hemmi, Monash University, Australia
2018	Fajemisin, Ade, University College Cork, Ireland
2017	Sucu, Seda, University of Strathclyde, UK
2016	Ross, Emma, Lancaster University, UK
2015	Rodríguez Herrera, Juan Francisco, University of Almeria, Spain

Research funding and contracts

Total amount awarded/administrated to date: **1M GBP** (2012-...) and **418K EUR** (2009-2013).

2025 — 2026 **Consultancy**
30K GBP funded by Morgan Stanley
Title: "Strategic Workforce Planning"
Consultants: R. Rossi, S. Murphy

2019 — 2023 **TRAIN@Ed**
217.3K GBP funded by Horizon 2020 Marie Skłodowska-Curie Actions COFUND scheme (148.8K GBP) and Costain (68.5K GBP)
Title: "Construction Analytics"
Principal Investigators: R. Rossi, T. Embley (Costain)

2017 — 2021 **EPSRC 2017 Industrial CASE**
111.1K GBP funded by EPSRC (83.3K GBP) and Costain (27.8K GBP)
Title: "Business Model Transformation via Data-driven Innovation and Big Data Analytics"
Principal Investigators: R. Rossi, T. Embley (Costain)

2016 — 2019 **Volvo Construction Climate Challenge Fund**
433K GBP funded by Volvo (283K GBP) and Costain (150K GBP)
Title: "Carbon Infrastructure Transformation Tools (CITT)"
Principal Investigators: D. Canning (Costain), F. Ascui, R. Rossi, M. Brander, K. Kaesehage

2015 — 2016 **Innovate UK**
150K GBP
Title: "Reducing Construction Carbon Emissions in Logistics (ReCCEL)"
Principal Investigators: T. Embley (Costain), K. Budden (CENEX), R. Rossi, B. Martin-Barragan, M. Tomasella

2015 — 2016 **EPSRC Impact Accelerator Fund**
17K GBP
Title: "Reducing Construction Carbon Emissions in Logistics (ReCCEL)"
Principal Investigators: R. Rossi, B. Martin-Barragan, M. Tomasella

2014 — 2015 **Early Career Venture Fund**
5.5K GBP
Title: "Confidence-based measures for the assessment of bank financial distress"
Principal Investigators: D. Mare, F. Moreira; Mentor: R. Rossi

2014 **PhD studentship**
60K GBP (approx.) Home fees & stipend funded by EPSRC
Title: "Managerial tools for mitigating inventory record inaccuracy in stochastic inventory systems"
Principal Investigator: R. Rossi; Co-pi: B. Buke

2013 — 2014 **CHSS challenge investment grant**
4.2K GBP funded by CHSS, University of Edinburgh, UK
Title: "Confidence-based optimisation at a local grocery store"
Principal Investigator: R. Rossi

2013 — 2014 **VEG-i-TRADE**
8K EUR top-up from EU FP-7 grant agreements no 244 994
Title: "Logistic chain modelling and packaging modelling as input for microbiological risk assessment"
Principal Investigator: R. Rossi

2012 — 2013 **SICSA Distinguished Visiting Fellowship, Prof Barry O'Sullivan, University College Cork**
2.4K GBP funded by SICSA Distinguished Visiting Fellowships
Title: "Constraint Programming meets Machine Learning and Statistics for Stochastic Constraint Optimization"
Principal Investigators: I. Gent, I. Miguel, P. Prosser, K. Petrie, R. Rossi

2011 — 2013 **Smart Agri-food**
130K EUR funded by the European Community's Seventh Framework Programme (FP7/2007-2013), grant agreements no 285 326
Title: "Smart Food and Agribusiness: Future Internet for Safe and Healthy Food from Farm to Fork"
Principal Investigators: J. van der Vorst, Adrie Beulens, R. Rossi

2010 — 2013 **VEG-i-TRADE**
200K EUR funded by the European Community's Seventh Framework Programme (FP7/2007-2013), grant agreements no 244 994
Title:"Logistic chain modelling and packaging modelling as input for microbiological risk assessment"
Principal Investigator: J. van der Vorst; work-package manager: R. Rossi

2009 **PhD studentship jointly funded by IBM and IRCSET, Ireland**
Title: "Stochastic Constraint Programming for Managing Risk"
Principal Investigators: R. Rossi, S. D. Prestwich (incumbent after relocation of R. Rossi to the Netherlands)

Review panels

Research

2021 – . . .	*Judge* for the Journal of Operational Research Society's Goodeve Medal Award. "The Goodeve Medal is awarded in recognition of the most outstanding contribution to the philosophy, theory or practice of OR published in the Journal of the OR Society (JORS) within the relevant year."
2020	*Reviewer*, Royal Academy of Engineering (RAEng), UK
2019 – . . .	*Full Member of the EPSRC Peer Review College*, Engineering and Physical Sciences Research Council (EPSRC), UK
2018	*Evaluator*, Marie Skłodowska-Curie Actions, EU
2016 – 2019	*Associate of the EPSRC Peer Review College*, Engineering and Physical Sciences Research Council (EPSRC), UK
2015	*External project reviewer*, Israel Science Foundation (ISF)
2012	*External project reviewer*, Portuguese Foundation for Science and Technology (FCT)

Education

2023	*Convener of the review team*, Internal Periodic Review (UG/PGT/PGR Provision), The Edinburgh College of Art, University of Edinburgh
2022	*Convener of the review team*, Internal Periodic Review (PGT Provision), The Royal (Dick) School of Veterinary Studies, University of Edinburgh
2018	*Reviewer*, Internal Periodic Review, School of Engineering, University of Edinburgh
2012	*External programme reviewer*, Irish Management Institute, Dublin, Ireland, Level 6 NFQ higher certificate academic programme

Program committees

IJCAI-ECAI 2026	*Program Committee member*, 35th International Joint Conference in Artificial Intelligence, August 15-21, 2026, Bremen, Germany
ICORES 2026	Program committee member, 15th International Conference on Operations Research and Enterprise Systems, March 9 - 11, 2026, Marbella, Spain
IJCAI 2025	*Program Committee member*, 34th International Joint Conference in Artificial Intelligence
ICORES 2025	*Program committee member*, 14th International Conference on Operations Research and Enterprise Systems, February 23 - 25, 2025, Porto, Portugal
IJCAI 2024	*Program Committee Board member*, 33rd International Joint Conference in Artificial Intelligence
IJCAI 2023	*Program Committee Board member*, 32nd International Joint Conference in Artificial Intelligence
IJCAI-ECAI 2022	*Program Committee Board member*, 31st International Joint Conference in Artificial Intelligence, July 23-29, 2022, Vienna, Austria
AAAI 2022	*Program committee member*, 36th AAAI Conference on Artificial Intelligence, February 22 - March 1, 2022, Vancouver, Canada
IJCAI 2021	*Senior program committee member*, 30th International Joint Conference in Artificial Intelligence, August 21-26, 2021, Montreal, Canada
AAAI 2021	*Program committee member*, 35th AAAI Conference on Artificial Intelligence, February 2-9, 2021, virtual conference
CP 2020	Program committee member, 26th International Conference on Principles and Practice of Constraint Programming, Septemper 7-11, 2020, Louvain-la-Neuve, Belgium
IJCAI 2020	Program committee member, 29th International Joint Conference in Artificial Intelligence, July 11-17, 2020, Yokohama, Japan
AAAI 2020	*Program committee member*, 34th AAAI Conference on Artificial Intelligence, February 7-12, 2020, New York, New York, USA
IJCAI 2019	*Program committee member*, 28th International Joint Conference in Artificial Intelligence, August 10-16, 2019, Macao, China
AAAI 2019	*Program committee member*, 33rd AAAI Conference on Artificial Intelligence, January 27 - February 1, 2019, Honolulu, Hawaii, USA
GCAI 2018	*Program committee member*, 4th Global Conference of Artificial Intelligence, September 17-19, 2018, Luxembourg, Luxembourg
LeGO 2018	*Program committee member*, 14th Global Optimization Workshop, September 18-21, 2018, Leiden, the Netherlands
IJCAI 2018	*Program committee member*, 27th International Joint Conference in Artificial Intelligence, July 13-19, 2018, Stockholm, Sweden
AAAI 2018	*Program committee member*, 32nd AAAI Conference on Artificial Intelligence, February 2-7, 2018, New Orleans, Louisiana, USA
IJCAI 2017	*Program committee member*, 26th International Joint Conference on Artificial Intelligence, August 19-25, 2017, Melbourne, Australia
IWLS 2017	*Program committee member*, International Workshop on Lot-sizing, Glasgow, August 23-25, 2017, Glasgow, UK
IJCAI 2016	*Program committee member*, 25th International Joint Conference on Artificial Intelligence, July 9-15, 2015, New York City, US
CPAIOR 2015	*Program committee member* (reviewer), The Twelfth International Conference on Integration of Artificial Intelligence (AI) and Operations Research (OR) techniques in Constraint Programming, May 18-22, 2015, University of Connecticut, US
AAAI 2014	*Program committee member* (reviewer), 28th AAAI Conference on Artificial Intelligence, July 27-31, 2014, Québec City, Québec, Canada
IGS 2014	*Program committee member*, 9th International Statistics Day Symposium, May 10-14, 2014, Antalya, Turkey

CP 2013	*Program committee member* (reviewer), 19th International Joint Conference on Principles and Practice of Constraint Programming, September 16-20, 2013, Uppsala, Sweden
IJCAI 2013	*Program committee member*, 23rd International Joint Conference on Artificial Intelligence, August 3-9, 2013, Beijing, China
IJCAI 2011	*Program committee member*, 22nd International Joint Conference on Artificial Intelligence, July 16-22, 2011, Barcelona, Spain

Professional duties

Membership of Public/Government Advisory/Policy Group or Panel

2025 — . . .	*Member*, The Committee of Professors in Operational Research (COPIOR), UK
2019	*Panel Member*, UK Association for Consultancy and Engineering (ACE) Round Table Dinner, "Challenging infrastructure development: Hyperloop and an economic and financial case for disruptive technology." Grange Hotel St Pauls, London, UK, 30th April, 2019

Administration

2021 — 2025	*Head of the Management Science & Business Economics group*, University of Edinburgh Business School
2017 — 2025	*Executive board member*, University of Edinburgh Business School

Research

2024 — . . .	*Associate Editor*, IMA Journal of Management Mathematics, Oxford Academic Press
2024 — . . .	*Member of the Steering Committee*, The Combinatorial Optimization Conferences (CO)
2015 — 2017	*Research Champion*, Management Science and Business Economics, University of Edinburgh Business School
2015 — 2017	*Member of the Research Committee*, University of Edinburgh Business School
2013 — 2016	*Research seminar coordinator*, Management Science and Business Economics, University of Edinburgh Business School
2013 — 2016	*PhD application coordinator*, Management Science and Business Economics, University of Edinburgh Business School
2013 — 2016	*Member of the Research Degree Committee*, Postgraduate Research Admissions Focus Group, University of Edinburgh Business School
2012 — 2016	*Secretary* of the regional society OR Group of Scotland, the UK OR Society

Education

2026 — ...	*UG Cohort Lead*, MA in Business with Decision Analytics, University of Edinburgh Business School
2025 — ...	*External examiner, PhD in Management & Marketing*, Durham Business School, UK
2016 — 2021	*External examiner, postgraduate programmes*, Strathclyde Business School, UK
2018 — 2020	*Postgraduate Appeal Committee Member*, College of Arts Humanities and Social Sciences, University of Edinburgh
2017 — 2020	*Director of postgraduate programmes*, 13 MSc programmes & (E)MBA, University of Edinburgh Business School
2017 — 2020	*Member of the College Postgraduate Studies Committee*, College of Arts Humanities and Social Sciences, University of Edinburgh
2015 — 2017	*Convenor of the postgraduate board of examiners*, University of Edinburgh Business School
2013 — . . .	*Member of the university team of programme reviewers*, the University of Edinburgh
2013 — 2016	*Non-professorial representative* to the Senatus Academicus, the University of Edinburgh
2014 — 2016	*Group representative*, Postgraduate studies committee, the University of Edinburgh Business School
2012 — 2014	*Group representative*, Undergraduate studies committee, the University of Edinburgh Business School

Teaching experience

I have been teaching modules in **multiple disciplines** (comp. sci., business, and mathematics), **colleges** (Humanities and Social Sciences, and Science and Engineering), and **European HEIs** (Edinburgh, UK; Wageningen, NL; and Cork, IE). These modules range from large first year UG courses (400+ students) to small/medium specialist MSc courses. Courses I coordinate(d) are marked below with a *.

Post-/undergraduate students supervised

Postgraduate:	25+ MSc/MRes dissertation students
Undergraduate	15+ BSc/MA dissertation students

University of Edinburgh

Postgraduate

2027 — ...	*AI Tools for Business**, Business School (expected 30 students)
2015 — ...	*Project Management in Business Analysis**, Business School (40 students)
2012 — 2019	*Stochastic Optimization**, School of Mathematics (25 students)
2012 — 2014	*Problem Solving & Spreadsheet modeling**, Business School (20 students)

Undergraduate

2016 — 2017	*Business Analytics and Information Systems**, Business School (70 students)
2012 — 2016	*Management Science and Information Systems**, Business School (70 students)
2014 — 2016	*Foundation of/Introduction to Business*, Business School (600+ students, 14 teaching assistants)
2012 — 2014	*Management Science and Operations Planning*, Business School (40 students)
2012 — 2014	*Business Studies 1*, Business School (400+ students, 10 teaching assistants)

Wageningen University

Postgraduate

2011	*Software Engineering*, Department of Information Technology (20 students)
2010 — 2011	*Information Systems**, Department of Information Technology (5 students)
2010 — 2011	*Project Planning & Organizing*, Department of Information Technology (70 students)
2009 — 2011	*Data Management*, Department of Information Technology (50 students)

Undergraduate

2009	*Advanced Programming*, Department of Information Technology (50 students)

University College Cork

Postgraduate

2008	*Database systems**, Department of Computer Science (10 students)

Undergraduate

2007 — 2008	*Foundations of Computer Science*, Department of Computer Science (50 students)
2007 — 2008	*Introduction to Artificial Intelligence*, Department of Computer Science (50 students)

Groups and associations

2013 — . . .	*Founding member*, European Working Group on Stochastic Optimisation
2012 — . . .	*Member*, The UK OR Society
2006 — . . .	*Member*, Association of European Operational Research Societies (EURO)
2006 — . . .	*Member*, Association for Constraint Programming (ACP)
2009 — 2011	*Member*, Dutch Network on the Mathematics of Oper. Res. (LNMB)
2006 — 2008	*Member*, Artificial Intelligence Association of Ireland (AIAI)

Collaboration with industry

2025 — 2026	*Morgan Stanley*, consultancy on strategic workforce planning
2019 — 2022	*Costain*, sponsored a Marie Skłodowska-Curie Actions post-doctoral fellow
2017 — 2020	*Costain*, sponsored an Industrial CASE PhD scholarship
2016 — 2019	*Costain*, collaborative research in the context of project CITT funded by Volvo Construction Climate Challenge
2015 — 2016	*Costain, CENEX, Crossrail, Komatsu, JCB*, collaborative research in the context of Innovate UK funded project ReCCEL
2015	*Methode Electronics Inc*, consultancy on inventory record incaccuracy
2011 — 2013	*Special Fruit*, collaborative research in the context of EU project Veg-i-trade
2010 — 2012	*VION food group*, collaborative research in the context of EU project Q-PorkChain
2008	*IBM*, sponsored a PhD scholarship
2006 — 2018	*Alcatel-Lucent (Bell Labs)*, collaborative research in the context of project CTVR

Conference/workshop organisation

2027	*Organiser* of EURO-ALIO-ECCO Joint Conference on Combinatorial Optimisation 2027 in Edinburgh
2026	*Organiser and chair* of a stream (4 sessions) on Moments in the History of OR and IFORS, the 24th Conference of the International Federation of Operational Research Societies 12-17 July 2026, Vienna, Austria
2025	*Stream organiser & chair* (4 sessions), Celebrating 50 Years of EURO, 34th European Conference on Operational Research, June 22-25, 2025, Leeds, United Kingdom
2025	*Chair*, Advancements of OR-analytics in statistics, machine learning and data science, 34th European Conference on Operational Research, June 22-25, 2025, Leeds, United Kingdom
2024	*Session organiser & chair*, Stochastic inventory systems, 33rd European Conference on Operational Research (EURO 2024), June 30 - July 3, 2024, Copenhagen, Denmark
2024	*Stream organiser & chair*, Moments in History of OR, 33rd European Conference on Operational Research (EURO 2024), June 30 - July 3, 2024, Copenhagen, Denmark
2023	*Organizer* of the 13th International Workshop on Lot Sizing (IWLS-23), August 23-25, 2023, Cork, Ireland
2021	*Stream organiser & chair*, Moments in History of OR, 31st European Conference on Operational Research (EURO 2021), July 11-14, 2021, Athens, Greece
2020	*Stream organiser & chair*, Moments in History of OR, 22nd Conference of International Federation of Operational Research Societies (IFORS 2020), June 21-26, 2020, Seoul, Korea
2019	*Stream organiser & chair*, Moments in History of OR, 30th European Conference on Operational Research (EURO 2019), June 23-26, 2019, Dublin, Ireland
2019	*Session organiser & chair*, Nonstationarity in inventory control, 9th IFAC Conference on Manufacturing Modelling, Management and Control (MIM 2019), August 28-30, 2019, Berlin, Germany
2018	*Session organiser & chair*, Stochastic Lot Sizing Problems, 29th European Conference on Operational Research (EURO 2018), July 8-11, 2018, Valencia, Spain
2017	*Member of the Organising Committee*, 8th International Workshop on Lot Sizing, August 23-25, 2017, Glasgow, UK
2012 — 2016	*Event organiser & chair*, Annual joint Oper. Res. Group of Scotland/Royal Statistical Society seminars
2016	*Session organiser & chair*, Stochastic Optimisation in Supply Chain Management, 28th European Conference on Operational Research (EURO 2016), July 3-6, 2016, Poznan, Poland
2015	*Member of the Organising Committee*, Workshop on Simulation for Managerial Decision Making, June 22-25, 2015, Edinburgh, United Kingdom
2015	*Session organiser & chair*, Stochastic and Dynamic Lot Sizing, 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom
2015	*Session organiser & chair*, Combinatorial problems in production/inventory/logistics systems, 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom
2014	*Member of the International Organising Committee*, 9th International Statistics Day Symposium (IGS 2014), May 10-14, 2014, Antalya, Turkey
2013	*Session organiser & chair*, Computational Methods for Stochastic Inventory Control, IFAC Conference on Manufacturing Modelling, Management, and Control (MIM2013), St. Petersburg, Russia
2012	*Session organiser & chair*, Stochastic Inventory Control, 54th Annual Conference of the UK Operational Research Society (OR54)
2009	*Senior Research Scientist*, 9th ISIR Summer School on "Changing Paradigm for Inventory Management in a Supply Chain Context," August 25-29, Karol Adamiecki University of Economics, Katowice, Poland

Plenary talks

1. R. Rossi, "Confidence-based optimization for the Newsvendor problem", 9th International Statistics Day Symposium (IGS 2014), May 10-14, 2014, Antalya, Turkey

Invited lectures

21. R. Rossi, "On the Stochastic Inventory Problem Under Order Capacity Constraints," STOR-i Annual Conference, Lancaster University, Lancaster, UK, January 11-12, 2024

20. R. Rossi, "On the Stochastic Inventory Problem Under Order Capacity Constraints," Business School, Durham University, Durham, UK, November 10, 2023

19. R. Rossi, "Inventio Analytica," Chair in Uncertainty Modelling inaugural lecture, the University of Edinburgh, Edinburgh, UK, February 8, 2023

18. R. Rossi, "Declarative Statistics," LAAS - CNRS, Toulouse, France, October 4, 2019

17. R. Rossi, "Declarative Statistics," LERIA, University of Angers, Angers, France, June 28, 2019

16. R. Rossi, "Declarative Statistics," University College Cork, Cork, Ireland, April 27, 2018

15. R. Rossi, "Declarative Statistics," Università di Bologna, Italy, November 21, 2017

14. R. Rossi, "Declarative Statistics," Strathclyde University, Glasgow, UK, November 17, 2017

13. R. Rossi, "Declarative Statistics," PEPA Seminars, School of Informatics, University of Edinburgh, UK, October 27, 2017

12. M. Brander, R. Rossi, "Carbon Infrastructure Transformation Tool (CITT) project," Volvo Construction Climate Challenge, Volvo Construction Equipment, Stockholm, Sweden, November 30, 2016

11. R. Rossi, "Reducing Construction Carbon Emissions in Logistics (ReCCEL)," Queen's Management School Seminar Series, Queen's University Belfast, Belfast, UK, October 12, 2016

10. R. Rossi, "Confidence-based optimization for the Newsvendor problem," Management Science Winter Workshop 2016, University of Strathclyde, Glasgow, UK, February 3, 2016

9. R. Rossi, "Dual Sourcing in Food Supply Chain Networks: the case of Egyptian strawberries", Workshop on Simulation for Managerial Decision Making, University of Edinburgh Business School, Edinburgh, UK, June 22-25, 2015

8. R. Rossi, "Confidence-based optimization for the Newsvendor problem," Department of Computer Science and Engineering, Università di Bologna, Italy, Jun 26, 2014

7. R. Rossi, "Stochastic Constraint Programming and Global Stochastic Constraints", PEPA Club Talks, Dept. of Informatics, University of Edinburgh, UK, Nov 29, 2013

6. R. Rossi, "Piecewise linear approximations of the standard normal first order loss function and an application to stochastic inventory control", Laboratoire d'Informatique de l'École polytechnique - Lix, Palaiseau, France, August 16, 2013

5. R. Rossi, "Confidence-based optimization for the Newsvendor problem", Edinburgh Research Group in Optimization, University of Edinburgh, UK, November 28, 2012

4. R. Rossi, "Confidence-based optimization for the Newsvendor problem", Alcatel-Lucent, Bell Labs Ireland, IRL, September 18, 2012

3. R. Rossi “Modelling and risk assessment,” Norvegian Veterinary Institute, Oslo, Norway, Jul 6, 2011

2. R. Rossi “Microbiological Risk Assessment in Logistic Chain Modelling,” Dept Food Safety & Food Quality, Ghent University, Belgium, Oct 28, 2010

1. R. Rossi, “Stochastic Constraint Programming: a seamless modeling framework for decision making under uncertainty,” Mansholt Lecture, Wageningen UR, the Netherlands, Jun 2, 2009

Books

B1 Roberto Rossi. *Inventory Analytics*. Open Book Publishers, Cambridge, UK, 2021

Edited volumes

EV1 A. Visentin, B. O'Sullivan, S. A. Tarim, and R. Rossi, editors. *Proceedings of the 13th International Workshop on Lot Sizing, IWLS 2023, Cork, Ireland, August 23 - 25, 2023*. University College Cork, August 2023

EV2 Kerem Akartunalı, Ashwin Arulselvan, Mahdi Doostmohammadi, and Roberto Rossi, editors. *Proceedings of the 8th International Workshop on Lot Sizing, IWLS 2017, Glasgow, United Kingdom, August 23 - 25, 2017*. Strathclyde University, August 2017

International journal articles

Published works

J41 Roberto Rossi, Steven D. Prestwich, and S. Armagan Tarim. Mixed-integer linear programming approximations for the stochastic knapsack. *Computers & Operations Research*, 194:107571, October 2026

J40 Xiyuan Ma, Roberto Rossi, and Thomas Welsh Archibald. A graph-based heuristic for the non-stationary stochastic lot-sizing problem under penalty costs. *International Journal of Production Economics*, 299:110112, September 2026

J39 Ciaran O'Connor, Mohamed Bahloul, Roberto Rossi, Steven Prestwich, and Andrea Visentin. Conformal prediction for electricity price forecasting in the day-ahead and real-time balancing market. *Energy and AI*, 21:100571, September 2025

J38 Roberto Rossi, Zhen Chen, and S. Armagan Tarim. On the stochastic inventory problem under order capacity constraints. *European Journal of Operational Research*, 312(2):541–555, January 2024

J37 Andrea Visentin, Steven Prestwich, Roberto Rossi, and S. Armagan Tarim. Stochastic dynamic programming heuristic for the (R, s, S) policy parameters computation. *Computers & Operations Research*, 158:106289, October 2023

J36 Alejandro Gutierrez-Alcoba, Roberto Rossi, Belen Martin-Barragan, and Tim Embley. The stochastic inventory routing problem on electric roads. *European Journal of Operational Research*, 310(1):156–167, October 2023

J35 Mengyuan Xiang, Roberto Rossi, Belen Martin-Barragan, and S. Armagan Tarim. A mathematical programming-based solution method for the nonstationary inventory problem under correlated demand. *European Journal of Operational Research*, 304(2):515–524, January 2023

J34 Xiyuan Ma, Roberto Rossi, and Thomas Welsh Archibald. Approximations for non-stationary stochastic lot-sizing under (s, Q)-type policy. *European Journal of Operational Research*, 298(2):573–584, April 2022

J33 Andrea Visentin, Steven Prestwich, Roberto Rossi, and S. Armagan Tarim. Computing optimal (R, s, S) policy parameters by a hybrid of branch-and-bound and stochastic dynamic programming. *European Journal of Operational Research*, 294(1):91–99, October 2021

J32 Zhen Chen and Roberto Rossi. A dynamic ordering policy for a stochastic inventory problem with cash constraints. *Omega*, 102:102378, July 2021

J31 Steven D. Prestwich, S. Armagan Tarim, and Roberto Rossi. Intermittency and obsolescence: a croston method with linear decay. *International Journal of Forecasting*, 37(2):708–715, April 2021

J30 Gozdem Dural-Selcuk, Roberto Rossi, Onur A. Kilic, and S. Armagan Tarim. The benefit of receding horizon control: Near-optimal policies for stochastic inventory control. *Omega*, 97:102091, December 2020

J29 Roberto Rossi, Maurizio Tomasella, Belen Martin-Barragan, Tim Embley, Christopher Walsh, and Matthew Langston. The dynamic bowser routing problem. *European Journal of Operational Research*, 275(1):108–126, May 2019

J28 Mengyuan Xiang, Roberto Rossi, Belen Martin-Barragan, and S. Armagan Tarim. Computing non-stationary (s, S) policies using mixed integer linear programming. *European Journal of Operational Research*, 271(2):490–500, December 2018

J27 Huseyin Tunc, Onur A. Kilic, S. Armagan Tarim, and Roberto Rossi. An extended Mixed-Integer programming formulation and dynamic cut generation approach for the stochastic Lot-Sizing problem. *INFORMS Journal on Computing*, 30(3):492–506, August 2018

J26 Davide S. Mare, Fernando Moreira, and Roberto Rossi. Nonstationary Z-Score measures. *European Journal of Operational Research*, 260(1):348–358, July 2017

J25 Alejandro Gutierrez-Alcoba, Roberto Rossi, Belen Martin-Barragan, and Eligius M. T. Hendrix. A simple heuristic for perishable item inventory control under non-stationary stochastic demand. *International Journal of Production Research*, 55(7):1885–1897, April 2017

J24 Willem A. Rijpkema, Eligius M. T. Hendrix, Roberto Rossi, and Jack G. A. J. van der Vorst. Application of stochastic programming to reduce uncertainty in quality-based supply planning of slaughterhouses. *Annals of Operations Research*, 239(2):613–624, September 2016

J23 Roberto Rossi, Brahim Hnich, S. Armagan Tarim, and Steven Prestwich. Confidence-based reasoning in stochastic constraint programming. *Artificial Intelligence*, 228:129–152, November 2015

J22 Willem A. Rijpkema, Eligius M. T. Hendrix, and Roberto Rossi. Bi-criterion procedures to support logistics decision making: cost and uncertainty. *Journal of the Operational Research Society*, 66(12):2086–2091, June 2015

J21 Roberto Rossi, Onur A. Kilic, and S. Armagan Tarim. Piecewise linear approximations for the static-dynamic uncertainty strategy in stochastic lot-sizing. *Omega: the International Journal of Management Science*, 50:126–140, January 2015

J20 Roberto Rossi, Steven Prestwich, S. Armagan Tarim, and Brahim Hnich. Confidence-based optimisation for the newsvendor problem under binomial, poisson and exponential demand. *European Journal of Operational Research*, 239(3):674–684, December 2014

J19 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. Forecasting intermittent demand by hyperbolic-exponential smoothing. *International Journal of Forecasting*, 30(4):928–933, October 2014

J18 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. Hybrid metaheuristics for stochastic constraint programming. *Constraints*, 20(1):57–76, August 2014

J17 Willem Rijpkema, Roberto Rossi, and Jack G.A.J van der Vorst. Effective sourcing strategies for perishable product supply chains. *International Journal of Physical Distribution & Logistics Management*, 44(6):494–510, July 2014

J16 Steven D. Prestwich, Roberto Rossi, S. Armagan Tarim, and Brahim Hnich. Mean-based error measures for intermittent demand forecasting. *International Journal of Production Research*, 52(22):6782–6791, May 2014

J15 Roberto Rossi, S. Armagan Tarim, Steven Prestwich, and Brahim Hnich. Piecewise linear lower and upper bounds for the standard normal first order loss function. *Applied Mathematics and Computation*, 231:489–502, March 2014

J14 Roberto Rossi, S. Armagan Tarim, and Ramesh Bollapragada. Constraint-Based local search for inventory control under stochastic demand and lead time. *INFORMS Journal on Computing*, 24(1):66–80, December 2012

J13 Willem A. Rijpkema, Roberto Rossi, and Jack G. A. J. van der Vorst. Process redesign for effective use of product quality information in meat chains. *International Journal of Logistics Research and Applications*, 15(6):389–403, November 2012

J12 Brahim Hnich, Roberto Rossi, S. Armagan Tarim, and Steven D. Prestwich. Filtering algorithms for global chance constraints. *Artificial Intelligence*, 189(1):69–94, September 2012

J11 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. A neuroevolutionary approach to stochastic inventory control in multi-echelon systems. *International Journal of Production Research*, 50(8):2150–2160, April 2012

J10 Steven D. Prestwich, Brahim Hnich, Helmut Simonis, Roberto Rossi, and S. Armagan Tarim. Partial symmetry breaking by local search in the group. *Constraints*, 17(2):148–171, March 2012

J9 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Constraint programming for stochastic inventory systems under shortage cost. *Annals of Operations Research*, 195(1):49–71, July 2012

J8 S. Armagan Tarim, Mustafa K. Dogru, Ulaş Özen, and Roberto Rossi. An efficient computational method for a stochastic dynamic lot-sizing problem under service-level constraints. *European Journal of Operational Research*, 215(3):563–571, December 2011

J7 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. A state space augmentation algorithm for the replenishment cycle inventory policy. *International Journal of Production Economics*, 133(1):377–384, September 2011

J6 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Computing the non-stationary replenishment cycle inventory policy under stochastic supplier lead-times. *International Journal of Production Economics*, 127(1):180–189, September 2010

J5 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, Steven D. Prestwich, and Semra Karacaer. Scheduling internal audit activities: a stochastic combinatorial optimization problem. *Journal of Combinatorial Optimization*, 19(3):325–346, April 2010

J4 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, Steven D. Prestwich, and Cahit Guran. A note on Liu-Iwamura's dependent-chance programming. *European Journal of Operational Research*, 198(3):983–986, November 2009

J3 S. Armagan Tarim, Brahim Hnich, Steven D. Prestwich, and Roberto Rossi. Finding reliable solutions: event-driven probabilistic constraint programming. *Annals of Operations Research*, 171(1):77–99, October 2009

J2 S. Armagan Tarim, Brahim Hnich, Roberto Rossi, and Steven D. Prestwich. Cost-Based filtering techniques for stochastic inventory control under service level constraints. *Constraints*, 14(2):137–176, June 2009

J1 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. A global chance constraint for stochastic inventory systems under service level constraints. *Constraints*, 13(4):490–517, December 2008

Articles and books under consideration for publication

J43 R. Rossi, S. D. Prestwich, "Grammar-Aware Literate Generative Mathematical Programming with Compiler-in-the-Loop," submitted to IEEE Transactions on Artificial Intelligence, `https://arxiv.org/abs/2601.17670`

J42 R. Rossi, "A Structural Interpretation of GELU and Threshold-Transmission Activations via the First-Order Loss Function," submitted to Neural Networks, `https://arxiv.org/abs/2607.03664`

Working papers

J51 R. Rossi, "Approximating (σ, S) policies using mixed-integer linear programming in the multi-item dynamic inventory problem," working paper

J50 R. Rossi, "Bounding the gap between (s, S) and (s, Q) policies in the dynamic inventory problem," working paper

J49 İ. Güvenç Pelit, M. Soysal, S. A. Tarim, R. Rossi, "End-to-end deep learning for stochastic lot sizing," working paper

J48 R. Rossi, "An analytical framework for the confidence-based newsvendor problem," in preparation

J47 R. Rossi, "Computing non-stationary (s, S) policies under service level constraints," in preparation

J46 D. Vo, R. Rossi, T. Archibald, "Scalable Approximation of Transshipment in Perishable Inventory Networks," working paper

J45 R. Rossi, Z. Chen, B. Martin-Barragan, S. A. Tarim, "The optimality of (s, S) hiring policy on a workforce planning problem and Binomial K-convexity," in preparation

J44 X. Ma, R. Rossi, T. Archibald, "Non-stationary stochastic lot-sizing problem with lateral transshipment," working paper, `https://arxiv.org/abs/2203.16259`

Invited book chapters

BC1 Brahim Hnich, Roberto Rossi, S. Armagan Tarim, and Steven D. Prestwich. A survey on CP-AI-OR hybrids for decision making under uncertainty. In P. van Hentenryck and M. Milano, editors, *Hybrid Optimization*, volume 45 of *Springer Optimization and Its Applications*, chapter 7, pages 227–270. Springer, New York, NY, 2011

International conference proceedings (peer reviewed)

Computer science

CP25 Steven Prestwich, Roberto Rossi, S. Armagan Tarim, and Andrea Visentin. Towards a closer integration of dynamic programming and constraint programming. In Daniel Lee, Alexander Steen, and Toby Walsh, editors, *GCAI-2018. 4th Global Conference on Artificial Intelligence*, volume 55 of *EPiC Series in Computing*, pages 202–214. EasyChair, 2018

CP24 Steve Prestwich, S. Armagan Tarim, and Roberto Rossi. Constraint problem specification as compression. In Christoph Benzmüller, Geoff Sutcliffe, and Raul Rojas, editors, *GCAI 2016. 2nd Global Conference on Artificial Intelligence*, volume 41 of *EPiC Series in Computing*, pages 280–292. EasyChair, 2016

CP23 Eligius M. Hendrix, Karin G. Pauls-Worm, Roberto Rossi, Alejandro G. Alcoba, and Rene Haijema. A Sample-Based method for perishable good inventory control with a service level constraint. In Francesco Corman, Stefan Voß, and Rudy R. Negenborn, editors, *Computational Logistics*, volume 9335 of *Lecture Notes in Computer Science*, pages 526–540. Springer International Publishing, 2015

CP22 Steven D. Prestwich, Roberto Rossi, and S. Armagan Tarim. Randomness as a constraint. In Gilles Pesant, editor, *21st International Conference on Principles and Practice of Constraint Programming (CP-2015)*, volume 9255 of *Lecture Notes in Computer Science*, pages 351–366. Springer International Publishing, 2015

CP21 Roberto Rossi, Steven Prestwich, and S. Armagan Tarim. Statistical constraints. In T. Schaub, G. Friedrich, and B. O'Sullivan, editors, *Proceedings of the 21st European Conference on Artificial Intelligence, ECAI 2014, August 18-22, 2014, Prague, Czech Republic*, volume 263 of *Frontiers in Artificial Intelligence and Applications*, pages 777–782. IOS Press, 2014

CP20 Roberto Rossi, Brahim Hnich, S. Armagan Tarim, and Steven D. Prestwich. Finding (α,ϑ)-solutions via sampled scsps. In Toby Walsh, editor, *IJCAI 2011, Proceedings of the 22nd International Joint Conference on Artificial Intelligence, Barcelona, Catalonia, Spain, July 16-22, 2011*, pages 2172–2177. IJCAI/AAAI, 2011

CP19 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. Stochastic constraint programming by neuroevolution with filtering. In Andrea Lodi, Michela Milano, and Paolo Toth, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems*, volume 6140 of *Lecture Notes in Computer Science*, chapter 30, pages 282–286. Springer Berlin Heidelberg, Berlin, Heidelberg, 2010

CP18 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. Neuroevolutionary inventory control in Multi-Echelon systems. In Francesca Rossi and Alexis Tsoukias, editors, *Algorithmic Decision Theory*, volume 5783 of *Lecture Notes in Computer Science*, chapter 35, pages 402–413. Springer Berlin Heidelberg, Berlin, Heidelberg, 2009

CP17 Brahim Hnich, Roberto Rossi, S. Armagan Tarim, and Steven D. Prestwich. Synthesizing filtering algorithms for global Chance-Constraints. In Ian P Gent, editor, *Principles and Practice of Constraint Programming - CP 2009*, volume 5732 of *Lecture Notes in Computer Science*, chapter 36, pages 439–453. Springer Berlin Heidelberg, Berlin, Heidelberg, 2009

CP16 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. Evolving parameterised policies for stochastic constraint programming. In Ian P Gent, editor, *Principles and Practice of Constraint Programming - CP 2009*, volume 5732 of *Lecture Notes in Computer Science*, chapter 53, pages 684–691. Springer Berlin Heidelberg, Berlin, Heidelberg, 2009

CP15 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. A Steady-State genetic algorithm with resampling for noisy inventory control. In Günter Rudolph, Thomas Jansen, Simon Lucas, Carlo Poloni, and Nicola Beume, editors, *Parallel Problem Solving from Nature - PPSN X*, volume 5199 of *Lecture Notes in Computer Science*, chapter 56, pages 559–568. Springer Berlin Heidelberg, Berlin, Heidelberg, 2008

CP14 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Cost-Based domain filtering for stochastic constraint programming. In PeterJ Stuckey, editor, *Principles and Practice of Constraint Programming*, volume 5202 of *Lecture Notes in Computer Science*, chapter 16, pages 235–250. Springer Berlin Heidelberg, Berlin, Heidelberg, 2008

CP13 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Replenishment planning for stochastic inventory systems with shortage cost. In Pascal Hentenryck and Laurence Wolsey, editors, *Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems*, volume 4510 of *Lecture Notes in Computer Science*, chapter 17, pages 229–243. Springer Berlin Heidelberg, Berlin, Heidelberg, 2007

Inventory control, production planning & logistics

CP12 Alejandro Gutierrez-Alcoba, Roberto Rossi, Belen Martin-Barragan, and Tim Embley. Routing decisions of a hybrid vehicle on electric road networks. *IFAC-PapersOnLine*, 55(10):227–232, 2022

CP11 Zhen Chen and Roberto Rossi. A cash constrained single item stochastic lot-sizing problem. *IFAC-PapersOnLine*, 52(13):1479–1483, 2019

CP10 Xiyuan Ma, Roberto Rossi, and Thomas Archibald. Stochastic inventory control: A literature review. *IFAC-PapersOnLine*, 52(13):1490–1495, 2019

CP9 Roberto Rossi. On service level measures in stochastic inventory control. In Alexandre Dolgui, editor, *Proceedings of the IFAC Conference on Manufacturing Modelling, Management and Control, MIM 2013, June 19-21, 2013, Saint Petersburg, Russia*, volume 7, pages 2021–2026. International Federation of Automatic Control, 2013

CP8 Roberto Rossi. Periodic review for a perishable item under nonstationary stochastic demand. In Alexandre Dolgui, editor, *Proceedings of the IFAC Conference on Manufacturing Modelling, Management and Control, MIM 2013, June 19-21, 2013, Saint Petersburg, Russia*, volume 7, pages 1991–1996. International Federation of Automatic Control, 2013

CP7 Willem A. Rijpkema, Roberto Rossi, and Jack G. A. J. van der Vorst. Logistics management strategies to improve food safety of fresh fruits at retail outlets: the case of year-round sourcing of strawberries. In Ursula Rickert and Gerhard Schiefer, editors, *Proceedings of the 7th International European Forum (Igls-Forum) - (136th EAAE Seminar) on System Dynamics and Innovation in Food Networks, February 18-22, 2013 - Innsbruck-Igls, Austria*. Universität Bonn-ILB Press, Bonn, 2013

CP6 Eligius M. Hendrix, Rene Haijema, Roberto Rossi, and Karin G. Pauls-Worm. On solving a stochastic programming model for perishable inventory control. In Beniamino Murgante, Osvaldo Gervasi, Sanjay Misra, Nadia Nedjah, AnaMaria A. Rocha, David Taniar, and Bernady O. Apduhan, editors, *Computational Science and Its Applications - ICCSA 2012*, volume 7335 of *Lecture Notes in Computer Science*, pages 45–56. Springer Berlin Heidelberg, 2012

CP5 Roberto Rossi, Willem Rijpkema, and Jack G. A. J. van der Vorst. The impact of dual sourcing on food supply chain networks: the case of egyptian strawberries. In Domenico Dentoni, Stefano Pascucci, and Onno Omta, editors, *Proceedings of the 11th Wageningen International Conference on Chain and Network Management (WICaNeM 2012), 23-25 May 2012, Wageningen, The Netherlands*. Wageningen University Press, 2013

CP4 Willem Rijpkema, Roberto Rossi, and Jack G. A. J. van der Vorst. Effective use of product quality information in meat processing. In *Proceedings of the International Conference on Advances in Production Management Systems, APMS 2011, 26-28th September 2011, Stavanger, Norway*. 2013

CP3 Willem Rijpkema, Jack G. A. J. van der Vorst, and Roberto Rossi. Effective use of product quality information in meat processing. In *Proceedings of the 15th Annual Conference of the Logistics Research Network (LRN Annual Conference 2010), University of Leeds, Institute for Transport Studies, September 8-10, 2010*. 2013

CP2 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Computing replenishment cycle policy parameters for a perishable item. In Refail Kasimbeyli, Cemali Dincer, Selin Özpeynirci, and Leonidas Sakalauskas, editors, *24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector (MEC EurOPT 2010)*, pages 241–247. Vilnius Gediminas Technical University Publishing House "Technika", 2010

CP1 Willem Rijpkema, Roberto Rossi, and Jack G. A. J. van der Vorst. The use of pig quality estimates in slaughterhouse supply planning. In *Proceedings of the 9th Wageningen International Conference on Chain and Network Management (WICaNeM 2010), 26 May - 28 May 2010, Wageningen, The Netherlands*. Wageningen University Press, 2010

CP0 Willy Baltussen, Roberto Rossi, Bart Doorneweert, Hans Vrolijk, Diti Oudendag, and Annelise de Smet. Livestock transportation: a model for ex-ante policy analysis. In *Proceedings of the 9th Wageningen International Conference on Chain and Network Management (WICaNeM 2010), 26 May - 28 May 2010, Wageningen, The Netherlands*. Wageningen University Press, 2010

International workshop and doctoral program proceedings

WP14 Andrea Visentin, Steven D. Prestwich, Roberto Rossi, and Armagan Tarim. Modelling dynamic programming-based global constraints in constraint programming. In Hoai An Le Thi, Hoai Minh Le, and Tao Pham Dinh, editors, *Optimization of Complex Systems: Theory, Models, Algorithms and Applications*, pages 417–427, Cham, 2020. Springer International Publishing

WP13 Mengyuan Xiang, Belen Martin-Barragan, Roberto Rossi, and S. Armagan Tarim. MILP-based model for approximating non-stationary (R, S) policies with correlated demands. In Kerem Akartunalı, Ashwin Arulselvan, Mahdi Doostmohammadi, and Roberto Rossi, editors, *Proceedings of the 8th International Workshop on Lot Sizing, IWLS 2017, Glasgow, United Kingdom, August 23 - 25, 2017*, pages 17–22. Strathclyde University, 2017

WP12 Zhen Chen, Roberto Rossi, and Ren-qian Zhang. Single item stochastic lot sizing problem considering capital flow and business overdraft. In Kerem Akartunalı, Ashwin Arulselvan, Mahdi Doostmohammadi, and Roberto Rossi, editors, *Proceedings of the 8th International Workshop on Lot Sizing, IWLS 2017, Glasgow, United Kingdom, August 23 - 25, 2017*, pages 69–73. Strathclyde University, 2017

WP11 S. Prestwich, R. Rossi, S. A. Tarim, "Stochastic Constraint Programming and Reinforcement Learning," in Proceedings of the CP 2016 Constraint Programming and Artificial Intelligence Workshop, `https://arxiv.org/abs/1704.07183`

WP10 Roberto Rossi, S. Armagan Tarim, and Onur A. Kilic. A mixed integer linear programming heuristic for computing nonstationary (s,s) policy parameters. In Hendrix E.M.T. and L. Liberti, editors, *Proceedings of the Malaga XII Global Optimization workshop*, pages 117–120, 2014

WP9 Roberto Rossi and E.M.T. Hendrix. Computing linearisation parameters of arbitrarily distributed first order loss functions. In Hendrix E.M.T. and L. Liberti, editors, *Proceedings of the Malaga XII Global Optimization workshop*, pages 49–52, 2014

WP8 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, Steven D. Prestwich, and Eligius M. Hendrix. On a cp approach to solve a minlp inventory model. In S. Cafieri, B. G. Tóth, Hendrix E.M.T., L. Liberti, and F Messine, editors, *Proceedings of the Toulouse Global Optimization workshop*, pages 137–140. Laboratoire d'Informatique de l'École polytechnique - Lix, 2010

WP7 Steven D. Prestwich, Brahim Hnich, Helmut Simonis, Roberto Rossi, and S. Armagan Tarim. Boosting partial symmetry breaking by local search. In *Proceedings of the 9th International Workshop on Symmetry and Constraint Satisfaction Problems (SYMCON 2009), September 22, 2009, Lisbon, Portugal, in conjunction with CP 2009*, 2009

WP6 Roberto Rossi, Steven D. Prestwich, S. Armagan Tarim, and Brahim Hnich. Generalizing backdoors. In *Proceedings of the 5th International Workshop on Local Search Techniques in Constraint Satisfaction (LSCS 2008) Sep. 14, 2008, Sydney, Australia, in conjunction with CP 2008*, 2008

WP5 Steven D. Prestwich, Brahim Hnich, Roberto Rossi, and S. Armagan Tarim. Symmetry breaking by metaheuristic search. In *Proceedings of the 8th International Workshop on Symmetry and Constraint Satisfaction Problems (SYMCON 2008) Sep. 14, 2008, Sydney, Australia, in conjunction with CP 2008*, 2008

WP4 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, and Brahim Hnich. A cultural algorithm for POMDPs from stochastic inventory control. In María J Blesa, Christian Blum, Carlos Cotta, Antonio J Fernández, José E Gallardo, Andrea Roli, and Michael Sampels, editors, *Hybrid Metaheuristics*, volume 5296 of *Lecture Notes in Computer Science*, chapter 2, pages 16–28. Springer Berlin Heidelberg, Berlin, Heidelberg, 2008

WP3 S. Armagan Tarim, Brahim Hnich, Roberto Rossi, and Steven D. Prestwich. Cost-Based filtering for stochastic inventory control. In Francisco Azevedo, Pedro Barahona, François Fages, and Francesca Rossi, editors, *Recent Advances in Constraints*, volume 4651 of *Lecture Notes in Computer Science*, chapter 11, pages 169–183. Springer Berlin Heidelberg, Berlin, Heidelberg, 2007

WP2 Roberto Rossi, S. Armagan Tarim, Brahim Hnich, and Steven D. Prestwich. Cost-based filtering for stochastic inventory systems with shortage cost. In *Thirteenth International Conference on Principles and Practice of Constraint Programming (CP-07), Doctoral Program Proceedings, Providence (RI)*, 2007

WP1 Roberto Rossi and Steven D. Prestwich. A global constraint for computing exact buffer stock levels in stochastic inventory control. In *Twelfth International Conference on Principles and Practice of Constraint Programming (CP-06), Doctoral Program Proceedings, Nantes*, 2006

National conference proceedings

NP2 S. Armagan Tarim, Brahim Hnich, Roberto Rossi, and Steven D. Prestwich. A decision support system for computing optimal (r,s) policy parameters. In Derek Bridge, Kenneth Brown, Barry O'Sullivan, and Humphrey Sorensen, editors, *Proceedings of the 19th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2008), Aug. 27, 2008, Cork, Ireland*, pages pp.301–302, 2008

NP1 S. Armagan Tarim, Brahim Hnich, Roberto Rossi, and Steven D. Prestwich. Symmetry breaking by nonstationary optimisation. In Derek Bridge, Kenneth Brown, Barry O'Sullivan, and Humphrey Sorensen, editors, *Proceedings of the 19th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2008), Aug. 27, 2008, Cork, Ireland*, pages 153–162, 2008

Dissertations

Roberto Rossi. *Constraint Programming for Optimization Under Uncertainty in Stochastic Inventory Control*. PhD thesis, University College Cork, Ireland, November 2008 `https://cora.ucc.ie/handle/10468/5871`

Review activity

I regularly review books and research articles for the publishing houses and journals listed below.

Books	Reviewer for Palgrave education (Business & Management) Reviewer for Routledge (Business & Management)
Journals	**Computer Science**: Information Sciences (3.893)[1]; Artificial Intelligence (2.709); Constraints: an international journal (1.152); INFORMS Journal on Computing (1.120); Expert Systems with Applications (2.240); Journal of Computer Security **Management Science**: OMEGA: the International Journal of Management Science (3.190); International Journal of Production Economics (2.081); European Journal of Operational Research (1.759); Computers & Industrial Engineering (1.690); International Journal of Production Research (1.323); Optimization and Engineering (0.955); Journal of the Operational Research Society (0.911); European Journal of Industrial Engineering (0.822); Journal of Optimisation Theory and Applications (1.509); EURO Journal on Computational Optimization

Invited sessions at international conference/workshop

33. Z. Chen, R. Rossi, B. Martin-Barragan, S. A. Tarim, "The optimality of (s, S) hiring policy on a workforce planning problem and Binomial K convexity," 24th Conference of the International Federation of Operational Research Societies (IFORS 2026), 12-17 July 2026, Vienna, Austria

32. D. Vo, R. Rossi, T. Archibald, "Scalable Approximation of Transshipment in Perishable Inventory Networks," 24th Conference of the International Federation of Operational Research Societies (IFORS 2026), 12-17 July 2026, Vienna, Austria

31. X. Ma, R. Rossi, T. Archibald, "A hybrid inventory policy for non-stationary lot-sizing problems with lateral transshipment," 24th Conference of the International Federation of Operational Research Societies (IFORS 2026), 12-17 July 2026, Vienna, Austria

30. R. Rossi, "Grammar-Aware Literate Generative Mathematical Programming with Compiler-in-the-Loop," 24th Conference of the International Federation of Operational Research Societies (IFORS 2026), 12-17 July 2026, Vienna, Austria

[1] Impact factor; Thomson Reuters Journal Citation Reports ©

29. X. Ma, R. Rossi, T. Archibald, "A graph-based algorithm for the non-stationary lot-sizing problem with penalty scheme," 34th European Conference on Operational Research (EURO 2025), June 22 - 25, 2025, Leeds, United Kingdom

28. R. Rossi, "A brief history of (inventory) analytics," 34th European Conference on Operational Research (EURO 2025), June 22 - 25, 2025, Leeds, United Kingdom

27. R. Rossi, S. D. Prestwich, S. A. Tarim, "Mixed-Integer Linear Programming Approximations for the Stochastic Knapsack Problem," 34th European Conference on Operational Research (EURO 2025), June 22 - 25, 2025, Leeds, United Kingdom

26. R. Rossi, Z. Chen, S. A. Tarim, "On the Stochastic Inventory Problem Under Order Capacity Constraints," 33rd European Conference on Operational Research (EURO 2024), June 30 - July 3, 2024, Copenhagen, Denmark

25. X. Ma, T. W. Archibald, R. Rossi, "An efficient computation approach to non-stationary lot-sizing problem under static-dynamic strategy with penalty scheme," 22nd International Symposium on Inventories (ISIR 2024), 19-23 August, 2024, Budapest, Hungary

24. A. G. Alcoba, R. Rossi, B. Martin-Barragan "Decisions on the electrification of a road network," 32nd European Conference on Operational Research (EURO 2022), July 3-6, 2022, Espoo, Finland

23. A. G. Alcoba, R. Rossi, B. Martin-Barragan, T. Embley, "Routing and managing inventory on electric roads," to be presented at the 12th Annual EDSI Conference (EDSI 2022), May 29-June 1, 2022, Dublin, Ireland

22. A. Visentin, S. Prestwich, R. Rossi, S. A. Tarim, "Stochastic Dynamic Programming Heuristic for the (R, s, S) Policy Parameters Computation," to be presented at the 12th Annual EDSI Conference (EDSI 2022), May 29-June 1, 2022, Dublin, Ireland

21. A. G. Alcoba, R. Rossi, B. Martin-Barragan, "An inventory routing problem on electrified road networks," presented at the 31st European Conference on Operational Research (EURO 2021), July 11-14, 2021, Athens, Greece

20. X. Ma, R. Rossi, T. Archibald, "MILP Approximation for non-stationary stochastic lot-sizing with lateral transshipment," presented at the 31st European Conference on Operational Research (EURO 2021), July 11-14, 2021, Athens, Greece

19. X. Ma, R. Rossi, T. Archibald, "Mixed integer non-linear programs of (s, Q) policy in non-stationary stochastic lot-sizing problem," presented at the 22nd 22nd Conference of the International Federation of Operational Research Societies (IFORS 2021), August 23-27, 2021, Seoul, South Korea

18. M. Xiang, R. Rossi, B. Martin-Barragan, "An efficient heuristic for joint replenishment problems," to be presented at the 29th European Conference on Operational Research (EURO 2018), July 8-10, 2018, Valencia, Spain

17. R. Rossi, "La Nova Scientia: Rewriting the History of Operational Research," to be presented at the 29th European Conference on Operational Research (EURO 2018), July 8-10, 2018, Valencia, Spain

16. R. Rossi, A. G. Alcoba, B. Martin-Barragan, E. Hendrix, "A simple heuristic for perishable inventory control under nonstationary stochastic demand," to be presented at the 28th European Conference on Operational Research (EURO 2016), July 3-6, 2016, Poznan, Poland

15. M. Tomasella, R. Rossi, Belen Martin-Barragan, "The ReCCEL toolbox: a response to carbon reduction challenges in the UK construction industry," to be presented at the 28th European Conference on Operational Research (EURO 2016), July 3-6, 2016, Poznan, Poland

14. C. Manna, S. Prestwich, R. Rossi, S. A. Tarim, "Policy Learning for Lot-Sizing Stochastic Inventory Control Problem: a Neuro-Evolutionary Approach," to be presented at the 28th European Conference on Operational Research (EURO 2016), July 3-6, 2016, Poznan, Poland

13. M. Xiang, R. Rossi, Belen Martin-Barragan, "An MILP model for computing (s, S) policies with stochastic demand," to be presented at the 28th European Conference on Operational Research (EURO 2016), July 3-6, 2016, Poznan, Poland

12. A. G. Alcoba, E M T Hendrix, R. Rossi, "Piecewise linearisation of the first order loss function for families of arbitrarily distributed random variables", to be presented at the 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom

11. G. Dural-Selcuk, O. A. Kilic, S. A. Tarim, R. Rossi, "A comparison of lot-sizing methods for non-stationary stochastic demand", to be presented at the 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom

10. Y. Malli, M. Laumanns, S. Prestwich, R. Rossi, S. A. Tarim, "A computational study for the inventory routing problem", to be presented at the 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom

9. C. Manna, R. Rossi, S. A. Tarim, S. Prestwich, "Neural Policies for Stochastic Dynamic Lot-sizing", to be presented at the 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom

8. R. Rossi, O. A. Kilic, S. A. Tarim, "A mixed integer linear programming heuristic for computing nonstationary (s,S) policy parameters", to be presented at the 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom

7. R. Rossi, O.A. Kilic, S.A. Tarim, "A unified modeling approach for the static-dynamic uncertainty strategy in stochastic lot-sizing", to be presented at the *20th Conference of the International Federation of Operational Research Societies* (IFORS 2014), 13-18 July 2014, Barcelona, Spain

6. M. Tomasella, R. Rossi, S. A. Tarim, "Multi-location stochastic inventory control with service level constraints and routing decisions", XXVI *EURO - INFORMS Joint International Conference*: "All roads lead to OR" (EURO XXVI), July 1-4, 2013, Rome, Italy

5. R. Rossi, "Periodic review for a perishable item under nonstationary stochastic demand", *IFAC Conference on Manufacturing Modeling, Management and Control* (MIM 2013), June 19-21, 2013, Saint Petersburg, Russia

4. R. Rossi, "On Service Level Measures in Stochastic Inventory Control", *IFAC Conference on Manufacturing Modelling, Management, and Control* (MIM2013), June 19-21, 2013, St. Petersburg, Russia

3. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich, "Solving the Newsvendor Problem under Partial Demand Information", presented at the *12e congrès annuel de la Sociéte francaise de Recherche Opérationnelle et d'Aide à la Décision* (ROADEF 2011), March 2-4 2011, Saint-Étienne, France

2. K. Pauls-Worm, R. Rossi, R. Haijema, J. van der Vorst. "Computing replenishment cycle policy parameters for a perishable item with non-stationary stochastic demand under service level constraints", presented at the *24th European Conference on Operational Research* (EURO XXIV) July 11-14 2010, Lisbon, Portugal

1. B. Hnich, R. Rossi, S. Armagan Tarim and S. Prestwich. "Synthesizing Filtering Algorithms in Stochastic Constraint Programming", presented at the *The Fortieth Annual Conference of the Italian Operational Research Society* (AIRO 2009) September 8-11, 2009, Siena, Italy

Conference presentations

66. A. Visentin, S. Prestwich, R. Rossi, S. A. Tarim, "Stochastic Dynamic Programming Heuristic for the (R, s, S) Policy Parameters Computation," presented at 13th International Workshop on Lot Sizing (IWLS 2023), University College Cork, August 23-25, 2023, Cork, Ireland

65. R. Rossi, "Inventory Analytics," presented at 13th International Workshop on Lot Sizing (IWLS 2023), University College Cork, August 23-25, 2023, Cork, Ireland

64. Z. Chen, R. Rossi, B. Martin-Barragan, S. A. Tarim, "Working force planning with stochastic turn over," presented at 4th IMA and OR Society Conference on Mathematics of Operational Research (IMA 2023), Aston Business School, April 27-28, Birmingham, UK

63. A. Visentin, S. Prestwich, R. Rossi, A. Tarim, "Stochastic dynamic programming formulation for the (R, s, S) policy parameters computation," presented at the 12th International Workshop on Lot Sizing (IWLS 2022), BI Norwegian Business School, Campus Oslo & Zoom, August 24-26, Oslo, Norway

62. A. Gutierrez-Alcoba, R. Rossi, B. Martin-Barragan, T. Embley, "Routing decisions of a hybrid vehicle on electric road networks", presented at the 10th IFAC Conference on Manufacturing Modelling, Management and Control, (MIM 2022), June 22-24, 2022, Nantes, France

61. M. Xiang, R. Rossi, B. Martin-Barragan, S. A. Tarim, "A mathematical programming-based solution method for the nonstationary inventory problem under correlated demand," to be presented at the STOR-i Workshop on Prediction and Optimisation (POP 2022), 16th-17th June 2022, Lancaster, UK

60. Z. Chen, R. Rossi "A cash constrained single item stochastic lot-sizing problem," presented at the 9th IFAC /IFIP/IFORS/IISE/INFORMS Conference Manufacturing Modelling, Management and Control (MIM 2019), Berlin School of Economics and Law, August 28-30, 2019, Berlin, Germany

59. X. Ma, R. Rossi, T. Archibald "Stochastic Inventory Control: A Literature Review," presented at the 9th IFAC/IFIP/IFORS/IISE/INFORMS Conference Manufacturing Modelling, Management and Control (MIM 2019), Berlin School of Economics and Law, August 28-30, 2019, Berlin, Germany

58. A. Visentin, S. Prestwich, R. Rossi, A. Tarim, "Modelling Dynamic Programming-Based Global Constraints in Constraint Programming," presented at the 6th World Congress on Global Optimization (WCGO 2019), Metz, France, July 8-10, 2019

57. A. Visentin, S. Prestwich, R. Rossi, A. Tarim, "Optimal (R,s,S) policy for single-item inventory lot sizing problem with stochastic non-stationary demand," presented at the 10th International Workshop on Lot Sizing (IWLS 2019), the Conservatoire National des Arts et Métiers (CNAM), 21st - 23rd August 2019, Paris, France

56. M. Xiang, R. Rossi and B. Martin-Barragan, S. A. Tarim, "MILP-based models for non-stationary stochastic lot-sizing strategies," presented at the European Conference On Stochastic Optimization (ECSO 2017), Rome, Italy, 20-22 September 2017

55. S. D. Prestwich, S. A. Tarim, R. Rossi, "Stochastic Constraint Programming as Reinforcement Learning," presented at the European Conference On Stochastic Optimization (ECSO 2017), Rome, Italy, 20-22 September 2017

54. Z. Chen, R. Rossi, Ren-qian Zhang, "Single item stochastic lot sizing problem considering capital flow and business overdraft," presented at the 8th International Workshop on Lot Sizing (IWLS 2017), Glasgow, United Kingdom, August 23-25, 2017

53. M. Xiang, R. Rossi, Belen Martin-Barragan, S. Armagan Tarim "MILP-based model for approximating non-stationary (R, S) policies with correlated demands," presented at the 8th International Workshop on Lot Sizing (IWLS 2017), Glasgow, United Kingdom, August 23-25, 2017

52. M. Xiang, R. Rossi, Belen Martin-Barragan, "(R, S) policy with correlated demands," presented at the 21st Conference of the International Federation of Operational Research Societies (IFORS 2017), Quebec City, Canada, July 17-21, 2017

51. R. Rossi, M. Tomasella, Belen Martin-Barragan, “Reducing Construction Carbon Emissions in Logistics: The Dynamic Bowser Routing Problem,” presented at the International Symposium on Locational Decisions 2017 (ISOLDE 2017), Toronto, Canada, July 10-14, 2017

50. M. Xiang, R. Rossi, Belen Martin-Barragan, ”(R, S) policy with correlated demands,” presented at the The joint Data Envelopment Analysis International Conference 2017 and Taiwan Productivity Workshop (DEAIC 2017), HeFei, China, July 7-10, 2017

49. S. Prestwich, S. A. Tarim, R. Rossi, ”Constraint problem specification as compression,” presented at the 2nd Global Conference on Artificial Intelligence (GCAI 2016), Freie Universität Berlin, September 29-October 2, 2016

48. S. Prestwich, R. Rossi, S. A. Tarim, ’Stochastic Constraint Programming and Reinforcement Learning,” presented at the CP 2016 Constraint Programming and Artificial Intelligence Workshop, Toulouse, September 5-9, 2016

47. E.M.T. Hendrix, K.G.J. Pauls-Worm, R. Rossi, A. G. Alcoba and R. Haijema “A sample-based method for perishable good inventory control with a service level constraint,” presented at the 6th International Conference on Computational Logistics, ICCL 2015, September 22-25, 2015, Delft, the Netherlands

46. S. Prestwich, R. Rossi and S. A. Tarim “Randomness as a Constraint,” to be presented at the 21st International Conference on Principles and Practice of Constraint Programming (CP-2015), August 31 - September 4, 2015, Cork, Ireland

45. D. Mare, F. Moreira, R. Rossi, “Confidence-based Z-score,” presented at the Credit Scoring and Credit Control XIV (CRC), 26-28 August 2015, Edinburgh, UK

44. D. Mare, F. Moreira, R. Rossi, “Confidence-based Z-score,” presented at the 5th International Conference of the Financial Engineering and Banking Society (FEBS), 11-13 June 2015, Nantes, France

43. R. Rossi, E.M.T. Hendrix,“Piecewise linearisation of the first order loss function for families of arbitrarily distributed random variables”, presented at the MAGO 2014, XII Global Optimisation Workshop (GOW), 1-4 September 2014, Malaga, Spain

42. R. Rossi, O.A. Kilic, S. A. Tarim,“A mixed integer linear programming heuristics for computing nonstationary (s,S) policy parameters”, presented at the MAGO 2014, XII Global Optimisation Workshop (GOW), 1-4 September 2014, Malaga, Spain

41. R. Rossi, S. Prestwich, S. A. Tarim,“Statistical constraints”, presented at the the 21st European Conference on Artificial Intelligence (ECAI 2014), 18-22 August 2014, Prague, Czech Republic

40. R. Rossi, O.A. Kilic, S.A. Tarim, ”A unified modeling approach for the static-dynamic uncertainty strategy in stochastic lot-sizing”, presented at the *20th Conference of the International Federation of Operational Research Societies* (IFORS 2014), 13-18 July 2014, Barcelona, Spain

39. R. Rossi, “Confidence-based optimization for the Newsvendor problem”, 9th International Statistics Day Symposium (IGS 2014), May 10-14, 2014, Antalya, Turkey

38. M. Tomasella, R. Rossi, S. A. Tarim, “Multi-location stochastic inventory control with service level constraints and routing decisions”, XXVI *EURO - INFORMS Joint International Conference*: “All roads lead to OR” (EURO XXVI), July 1-4, 2013, Rome, Italy

37. R. Rossi, “Periodic review for a perishable item under nonstationary stochastic demand”, *IFAC Conference on Manufacturing Modeling, Management and Control* (MIM 2013), June 19-21, 2013, Saint Petersburg, Russia

36. R. Rossi, “On Service Level Measures in Stochastic Inventory Control”, *IFAC Conference on Manufacturing Modelling, Management, and Control* (MIM2013), June 19-21, 2013, St. Petersburg, Russia

35. W.A. Rijpkema, R. Rossi, J.G.A.J van der Vorst,"Logistics management strategies to improve food safety of fresh fruits at retail outlets: the case of year-round sourcing of strawberries", 7th International European Forum (Igls-Forum) - (136th EAAE Seminar) on System Dynamics and Innovation in Food Networks, February 18-22, 2013 - Innsbruck-Igls, Austria

34. W.A. Rijpkema, R. Rossi, J.G.A.J van der Vorst,"Dual sourcing strategies for fresh food products: the case of egyptian strawberries", presented at the 17th Annual Logistics Research Network (LRN 2012) Conference, School of Management Cranfield University, September 5-7, 2012, Cranfield, UK

33. K.G.J. Pauls-Worm, E.M.T. Hendrix, R. Haijema, R. Rossi and J.G.A.J van der Vorst,"Production planning of a perishable product with non-stationary demand and long lead time", presented at the 17th International Symposium on Inventories (ISIR 2012), August 20-24, 2012, Budapest, Hungary

32. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich,"Confidence-based optimization for the Newsvendor Problem", presented at the 25th European Conference on Operational Research (EURO XXV) July 8-11 2012, Vilnius, Lithuania

31. E.M.T. Hendrix, R. Haijema, R. Rossi, and K.G.J. Pauls-Worm,"On solving a stochastic programming model for perishable inventory control", presented at the 12th International Conference on Computational Science and Its Applications (ICCSA 2012), June 18-21, 2012, Salvador de Bahia, Brazil

30. R. Rossi, W. Rijpkema and J.G.A.J van der Vorst,"The impact of dual sourcing on food supply chain networks: the case of Egyptian strawberries", presented at the 11th Wageningen International Conference on Chain and Network Management (WICaNeM 2012), 23-25 May 2012, Wageningen, The Netherlands

29. I. Zghidi, B. Hnich, R. Rossi, S. A. Tarim, S. Prestwich,"Computing Optimal (s,S) Policy Parameters Under Service Level Constraints", presented at ECCO 2012, 25th Conference of European Chapter on Combinatorial Optimization, Antalya, Turkey, April 26 - 28, 2012

28. W. Rijpkema, R. Rossi and J. Van der Vorst,"Effective use of product quality information in meat processing", presented at the International Conference on Advances in Production Management Systems, APMS 2011, 26-28th September 2011, Stavanger, Norway

27. R. Rossi, B. Hnich, S. A. Tarim and S. Prestwich,"Finding (α, ϑ)-solutions via Sampled SCSP", presented at the 22nd International Joint Conference on Artificial Intelligence, IJCAI 2011, Barcelona, Spain, July 16-22, 2011

26. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich, "Solving the Newsvendor Problem under Partial Demand Information", presented at the *12e congrès annuel de la Société francaise de Recherche Opérationnelle et d'Aide à la Décision* (ROADEF 2011), March 2-4 2011, Saint-Étienne, France

25. W. A. Rijpkema, J.G.A.J. van der Vorst, R. Rossi,"Using postponement strategies to reduce planning uncertainty in meat supply chains", presented at the 15th Annual Conference of the Logistics Research Network (LRN Annual Conference 2010), University of Leeds, Institute for Transport Studies, September 8-10, 2010

24. R. Rossi, S. A. Tarim, B. Hnich, S. D. Prestwich, E. M. T. Hendrix,"On a CP approach to solve a MINLP inventory model", presented at the Toulouse Global Optimization workshop (TOGO 2010), ENSEEIHT and Ecole Polytechnique, 31st August - 3rd September, 2010

23. M. Dogru, S. A. Tarim, U. Ozen, R. Rossi."An Efficient Computational Method for Non-Stationary (R,S) Inventory Policy with Service Level Constraints" (abstract, slides), presented at the 24th European Conference on Operational Research (EURO XXIV) July 11-14 2010, Lisbon, Portugal

22. K. Pauls-Worm, R. Rossi, R. Haijema, J. van der Vorst. "Computing replenishment cycle policy parameters for a perishable item with non-stationary stochastic demand under service level constraints", presented at the *24th European Conference on Operational Research* (EURO XXIV) July 11-14 2010, Lisbon, Portugal

21. R. Rossi, S. A. Tarim, B. Hnich, S. Prestwich,"Computing Replenishment Cycle Policy Parameters for a Perishable Item", presented at the 24th MEC-EurOPT-2010, June 23-26, 2010, Izmir, Turkey

20. S. Prestwich, S. A. Tarim, R. Rossi, B. Hnich,"Stochastic Constraint Programming by Neurevolution With Filtering", presented at the 7th International Conference on Integration of Artificial Intelligence and Operations Research techniques in Constraint Programming (CP-AI-OR 2010), Bologna, Italy, June 14-18, 2010

19. W. Rijpkema, R. Rossi, J. Van der Vorst,"Use of livestock quality estimates for improved allocation planning of meat processors", presented at the 9th Wageningen International Conference on Chain and Network Management (WICaNeM 2010), 26 May - 28 May 2010, Wageningen, The Netherlands

18. W. Baltussen, R. Rossi, B. Doorneweert, H. Vrolijk, D. Oudendag, A. de Smet,"Livestock transportation: a model for ex-ante policy analysis", presented at the 9th Wageningen International Conference on Chain and Network Management (WICaNeM 2010), 26 May - 28 May 2010, Wageningen, The Netherlands

17. S. Prestwich, S. A. Tarim, R. Rossi, B. Hnich,"Neuroevolutionary Inventory Control in Multi-Echelon Systems", presented at the 1st International Conference on Algorithmic Decision Theory (ADT-09), October 21-23, 2009, Venice, Italy

16. S. A. Tarim, U. Ozen, M. K. Dogru, R. Rossi,"A Relaxation Approach for Solving the Stochastic Lot Sizing Problem with Service Level Constraints" (abstract, slides), in collaboration with Alcatel-Lucent, presented at the INFORMS Annual Meeting, October 11-14, 2009, San Diego, CA

15. S. Prestwich, B. Hnich, H. Simonis, R. Rossi and S. Armagan Tarim."Boosting partial symmetry breaking by local search", presented at the 9th International Workshop on Symmetry and Constraint Satisfaction Problems (SYMCON 2009), September 21-24, 2009, Lisbon, Portugal, in conjunction with CP 2009

14. S. Prestwich, S. A. Tarim, R. Rossi, B. Hnich,"Evolving Parameterised Policies for Stochastic Constraint Programming", presented at the 15th International Conference on Principles and Practice of Constraint Programming (CP-09), September 21-24, 2009, Lisbon, Portugal

13. B. Hnich, R. Rossi, S. A. Tarim and S. Prestwich,"Synthesizing Filtering Algorithms for Global Chance-Constraints", presented at the 15th International Conference on Principles and Practice of Constraint Programming (CP-09), September 21-24, 2009, Lisbon, Portugal

12. B. Hnich, R. Rossi, S. Armagan Tarim and S. Prestwich. "Synthesizing Filtering Algorithms in Stochastic Constraint Programming", presented at the *The Fortieth Annual Conference of the Italian Operational Research Society* (AIRO 2009) September 8-11, 2009, Siena, Italy

11. S. Prestwich, S. A. Tarim, R. Rossi and B. Hnich,"A Cultural Algorithm for POMDPs from Stochastic Inventory Control", presented at the Internation Workshop on Hybrid Metaheuristics (HM 2008), 8-9 October 2008, Malaga, Spain

10. S. Prestwich, B. Hnich, R. Rossi and S. Armagan Tarim."Symmetry Breaking by Metaheuristic Search", presented at the 8th International Workshop on Symmetry and Constraint Satisfaction Problems (SYMCON 2008) Sep. 14, 2008, Sydney, Australia, in conjunction with CP 2008

9. R. Rossi, S. Prestwich, S. Armagan Tarim and B. Hnich."Generalizing Backdoors", presented at the 5th International Workshop on Local Search Techniques in Constraint Satisfaction (LSCS 2008) Sep. 14, 2008, Sydney, Australia, in conjunction with CP 2008

8. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich,"Cost-based domain filtering for stochastic constraint programming", presented at the 14th International Conference on Principle and Practice of Constraint Programming (CP-2008), Sep. 14-18, 2008, Sydney, Australia

7. S. Prestwich, S. A. Tarim, R. Rossi and B. Hnich,"A Steady-State Genetic Algorithm With Resampling for Noisy Inventory Control", presented at the 10th International Conference on Parallel Problem Solving from Nature (PPSN 2008), September 13-17, 2008, Technische Universitat Dortmund, Germany

6. S. A. Tarim, B. Hnich, R. Rossi and S. Prestwich,"A Decision Support System for Computing Optimal (R,S) Policy Parameters", presented at the 19th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2008) Aug. 27, 2008, Cork, Ireland

5. S. Prestwich, B. Hnich, R. Rossi and S. A. Tarim,"Symmetry Breaking by Nonstationary Optimisation", presented at the 19th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2008) Aug. 27, 2008, Cork, Ireland

4. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich,"Dynamic Programming for computing (Rn,Sn) policy parameters" (abstract, slides), presented at the 15th International Symposium on Inventories (ISIR-2008), August 22-26, 2008, Budapest, Hungary

3. S. A. Tarim, S. Karacaer, R. Rossi, B. Hnich and S. Prestwich,"Scheduling Internal Audit Activities: A Stochastic Combinatorial Optimization Problem", presented at the International Symposium on Combinatorial Optimization (CO-2008) March 16-19, 2008, Coventry, UK

2. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich,"Replenishment Planning for Stochastic Inventory Systems with Shortage Cost", presented at the Fourth International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CP-AI-OR 07) May 23-26, 2007, Brussels, Belgium

1. R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich,"Multi-feature testing in telecommunications", presented at the 21st European Conference on Operational Research (EURO-2006) July 2-5, 2006, Reykjavik, Iceland