

**Dr. Roberto Rossi**  
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Reader in Management Science

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## Summary

Edinburgh, July 23, 2017

I am a Reader in Management Science at the University of Edinburgh. My research focuses on automated reasoning. I develop systems that aim to be robust and scalable in such a way as to enable computers to act intelligently in increasingly complex real world settings and in uncertain environments. 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. 2015 — ...                               | <b>Reader at the University of Edinburgh Business School, UK</b><br>Management Science and Business Economics (MSBE)         |
| Jan. 2012 — Jul. 2015<br>(3 years, 6 months)  | <b>Lecturer at the University of Edinburgh Business School, UK</b><br>Management Science and Business Economics (MSBE)       |
| Jan. 2012 — Dec. 2013<br>(2 years)            | <b>External Assistant Professor (UD) at Wageningen University, NL</b><br>Logistics, Decision, and Information Sciences (LDI) |
| Dec. 2008 — Dec. 2011<br>(3 years)            | <b>Assistant Professor (UD) at Wageningen University, NL</b><br>Logistics, Decision, and Information Sciences (LDI)          |
| Aug. 2008 — Dec. 2008<br>(5 months)           | <b>Postdoctoral Researcher at University College Cork, IRL</b><br>Cork Constraint Computation Centre                         |
| Feb. 2008 — Jun. 2008<br>(5 months)           | <b>Assistant Lecturer at University College Cork, IRL</b><br>Department of Computer Science                                  |
| Oct. 2007 — Jun. 2008<br>(9 months)           | <b>Demonstrator at University College Cork, IRL</b><br>Department of Computer Science  |
| Nov. 2005 — Jul. 2008<br>(2 years, 10 months) | <b>Graduate Researcher at University College Cork, IRL</b><br>Cork Constraint Computation Center                             |
| Apr. 2005 — Sep. 2005<br>(6 months)           | <b>Research Assistant at University College Cork, IRL</b><br>Cork Constraint Computation Center                              |

## Visiting positions

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

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

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                      **Fellow of the Wageningen School of Social Sciences**  
(1 year, 6 months)                      Wageningen University, NL

Mar. 2009 — Jun. 2010                      **Candidate Fellow of the Wageningen School of Social Sciences**  
(1 year, 4 months)                      Wageningen University, NL

## Honors & awards

2016                                      **Sustained Excellence Contribution Award**  
University of Edinburgh

2014                                      **University of Edinburgh Research Leaders' Course**  
Selected as one of two participants from the University of Edinburgh Business School

2013                                      **Sustained Excellence Contribution Award**  
University of Edinburgh

2006                                      **ISA Student Medal Awards**  
Shortlisted among the four most commercially viable software

## PhD students

### Current

2017 — ...

#### **Recruitment in progress**

“Business Model Transformation via Data-driven Innovation and Big Data Analytics,” University of Edinburgh, UK

2015 — ...

#### **Mengyuan Xiang**

“Advanced modeling and solution strategies for stochastic inventory control,” University of Edinburgh, UK

### Completed

2009 — 2014

#### **Willem A. Rijpkema**

“Effective use of product quality information in food supply chain logistics,” Wageningen University, NL  
Current employment: supply chain manager at Friesland-Campina, NL

### Visiting students

Sep 2016 — Aug 2017  
(1 year)

#### **Chen Zhen**

Department of Management Science and Engineering, School of Economics and Management of Beihang University (Beijing, China)  
supported by China Scholarship Council

May 2014 — Jul 2014  
(3 months)

#### **Alejandro G. Alcoba**

Department of Computer Architecture, University of Malaga, Spain  
supported by Ministerio de Economía y Competitividad

## Research funding and contracts

Total amount awarded/administrated to date: **786K GBP** (2012-...) and **418K EUR** (2009-2013).

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

- 2017 *PhD Committee member*, Sucu, Seda, University of Strathclyde, UK  
2016 – ... *Associate of the EPSRC Peer Review College*, Engineering and Physical Sciences Research Council (EPSRC), UK  
2016 *PhD Committee member*, Ross, Emma, Lancaster University, UK  
2015 *PhD Committee member*, Rodríguez Herrera, Juan Francisco, University of Almeria, Spain  
2015 *External project reviewer*, Israel Science Foundation (ISF)  
2012 *External project reviewer*, Portuguese Foundation for Science and Technology (FCT)

### Education

- 2012 *External programme reviewer*, Irish Management Institute, Dublin, Ireland, Level 6 NFQ higher certificate academic programme

## Program committees

- AAAI 2018 *Program committee member*, Program committee member, 32nd AAAI Conference on Artificial Intelligence, February 2-7, 2018, New Orleans, Louisiana, USA  
IJCAI 2017 *Program committee member*, The 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*, The 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

### Research

- 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

- 2017 — ... *Director of postgraduate programmes*, 15 MSc programmes & (E)MBA, University of Edinburgh Business School
- 2017 — ... *Executive board member*, University of Edinburgh Business School
- 2016 — ... *External examiner, postgraduate programmes*, Strathclyde Business School, UK
- 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:** 16 MSc dissertation students
- Undergraduate** 10 BSc/MA dissertation students

## University of Edinburgh

### Postgraduate

- 2015 — ... *Project Management in Business Analysis\**, Business School (40 students)  
2012 — ... *Stochastic Optimization\**, School of Mathematics (25 students)  
2012 — 2014 *Problem Solving & Spreadsheet modeling\**, Business School (20 students)

### Undergraduate

- 2016 — ... *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

- 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 *Method Electronics Inc*, consultancy on inventory record inaccuracy
- 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

- 2017 *Member of the Organising Committee*, 8th International Workshop on Lot Sizing, August 23-25, 2016, 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

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,” Norwegian 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

## Edited volumes

EV1 Kerem Akartunali, Ashwin Arulsevan, 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

- 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 W. A. Rijpkema, E. M. T. Hendrix, R. Rossi, and J. 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, 2016
- J23 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
- J22 Roberto Rossi, Brahim Hnich, S. Armagan Tarim, and Steven Prestwich. Confidence-based reasoning in stochastic constraint programming. *Artificial Intelligence*, 228:129–152, November 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 S. D. Prestwich, S. A. Tarim, R. Rossi, and B. Hnich. Hybrid metaheuristics for stochastic constraint programming. *Constraints*, 20(1):57–76, 2015
- J19 Steven 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
- J18 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
- J17 S. D. Prestwich, S. A. Tarim, R. Rossi, and B. Hnich. Forecasting intermittent demand by hyperbolic-exponential smoothing. *International Journal of Forecasting*, 30(4):928–933, October 2014
- J16 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
- 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 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
- J13 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
- J12 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
- J11 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
- J10 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
- 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 LiuIwamura’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

- J31 M. Xiang, R. Rossi, B. Martin-Barragan, “An MILP heuristics for computing nonstationary (s,S) policy parameters,” submitted to the European Journal of Operational Research
- J30 H Tunc, O. A. Kilic, S. A. Tarim, R. Rossi, ”An extended MIP formulation and dynamic cut generation approach for the stochastic lot sizing problem,” submitted to INFORMS Journal on Computing
- J29 G. Dural-Selcuk, O. A. Kilic, S. A. Tarim, R. Rossi, “A comparison of methods for inventory problems with non-stationary stochastic demands”, submitted to Journal of Optimisation Theory and Applications
- J28 Steven D. Prestwich, S. Armagan Tarim, Roberto Rossi, Brahim Hnich, “Intermittency and Obsolescence: a Croston Method With Linear Decay”, submitted to the International Journal on Forecasting
- J27 R. Rossi, B. Martin-Barragan, M. Tomasella, T. Embley, C. Walsh. ”The Dynamic Bowser Routing Problem,” submitted to the European Journal of Operational Research

## 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

- CP22 S. Prestwich, S. A. Tarim, R. Rossi, “Constraint problem specification as compression” in Proceedings of the 2nd Global Conference on Artificial Intelligence (GCAI 2016), Freie Universitt Berlin, September 29-October 2, 2016
- CP21 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
- CP20 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
- CP19 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
- CP18 Roberto Rossi, Brahim Hnich, S. Armagan Tarim, and Steven D. Prestwich. Finding  $(\alpha, \vartheta)$ -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

- CP17 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
- CP16 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
- CP15 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
- CP14 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
- CP13 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
- CP12 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
- CP11 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

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- CP10 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
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- CP8 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

- CP7 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
- CP6 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
- CP5 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
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- CP3 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
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## International workshop and doctoral program proceedings

- 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 Akartunali, 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 Akartunali, 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

- 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
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- 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 OSullivan, 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 OSullivan, 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



## 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)<sup>1</sup>; 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

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 non-stationary (s,S) policy parameters", to be presented at the 27th European Conference on Operational Research (EURO 2015), July 12-15, 2015, Glasgow, United Kingdom

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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 Société française 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

56. S. D. Prestwich, S. A. Tarim, R. Rossi, "Stochastic Constraint Programming as Reinforcement Learning," to be presented at the European Conference On Stochastic Optimization (ECSO 2017), Rome, Italy, 20-22 September 2017
55. M. Xiang, R. Rossi and B. Martin-Barragan, S. A. Tarim, "MILP-based models for non-stationary stochastic lot-sizing strategies," to be 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," to be 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," to be 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," to be 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," to be 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," to be 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," to be 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," to be 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," to be 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," to be 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," to be 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 non-stationary (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 (Iglis-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  $(\alpha, \vartheta)$ -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 française 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
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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
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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
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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 Universitt 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
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