

Dr. Roberto Rossi

BEng, MEng, PhD, FHEA
Reader in Business Analytics

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

Summary

Edinburgh, April 16, 2019

I am a Reader in Business Analytics and Director of Postgraduate Education at the University of Edinburgh Business School. My research focuses on automated reasoning. I develop decision support systems that 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

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|---|---|
| Aug. 2017 — ... | Director at the University of Edinburgh Business School, UK
Director of Postgraduate Education, coordinates a team of 12 MSc & (E)MBA programme directors, responsible for over 650 postgraduate students |
| Aug. 2015 — ... | 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) |
| Jan. 2012 — Dec. 2013
(2 years) | External Assistant Professor (UD) at Wageningen University, NL
Logistics, Decision, and Information Sciences (LDI) |
| 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 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
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

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

2018, 2016, 2013 **Sustained Excellence Contribution Award**
University of Edinburgh

2016 **Outstanding Contribution in Reviewing Award**
the European Journal of Operational Research, Elsevier

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

Postgraduate supervision

Post-doctoral researchers

Jan 2018 — Jan 2019
(1 year) **Dr. Lijing Tan**
Shenzhen Institute of Information Technology (Shenzhen, China)
supported by China Scholarship Council

Current PhD students

2018 — ... **Xiyuan Ma**
“Transshipment in stochastic inventory systems”, University of Edinburgh, UK
supported by UEBS Management Science and Business Economics Scholarship

2017 — ... **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

Completed PhDs

2015 — 2019 **Mengyuan Xiang**
“Advanced modeling and solution strategies for stochastic inventory control,”
University of Edinburgh, UK

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: supply chain manager at Friesland-Campina, NL

Visiting PhD 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

PhD examination committee membership

2019 Maria Skarleth Carrales Escobedo
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: **786K GBP** (2012-...) and **418K EUR** (2009-2013).

- 2019 — 2022 **TRAIN@Ed**
217.3K GBP funded by Horizon 2020 Marie Skłodowska-Curie Actions CO-FUND 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

- 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

- 2018 *Reviewer, Teaching Programme 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

AAAI 2019	<i>Program committee member</i> , 33rd AAAI Conference on Artificial Intelligence, January 27 - February 1, 2019, Honolulu, Hawaii, USA
GCAI 2018	<i>Program committee member</i> , 4th Global Conference of Artificial Intelligence, September 17-19, 2018, Luxembourg, Luxembourg
LeGO 2018	<i>Program committee member</i> , 14th Global Optimization Workshop, September 18-21, 2018, Leiden, the Netherlands
IJCAI 2018	<i>Program committee member</i> , 27th International Joint Conference in Artificial Intelligence, July 13-19, 2018, Stockholm, Sweden
AAAI 2018	<i>Program committee member</i> , 32nd AAAI Conference on Artificial Intelligence, February 2-7, 2018, New Orleans, Louisiana, USA
IJCAI 2017	<i>Program committee member</i> , 26th International Joint Conference on Artificial Intelligence, August 19-25, 2017, Melbourne, Australia
IWLS 2017	<i>Program committee member</i> , International Workshop on Lot-sizing, Glasgow, August 23-25, 2017, Glasgow, UK
IJCAI 2016	<i>Program committee member</i> , 25th International Joint Conference on Artificial Intelligence, July 9-15, 2015, New York City, US
CPAIOR 2015	<i>Program committee member</i> (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	<i>Program committee member</i> (reviewer), 28th AAAI Conference on Artificial Intelligence, July 27-31, 2014, Québec City, Québec, Canada
IGS 2014	<i>Program committee member</i> , 9th International Statistics Day Symposium, May 10-14, 2014, Antalya, Turkey
CP 2013	<i>Program committee member</i> (reviewer), 19th International Joint Conference on Principles and Practice of Constraint Programming, September 16-20, 2013, Uppsala, Sweden
IJCAI 2013	<i>Program committee member</i> , 23rd International Joint Conference on Artificial Intelligence, August 3-9, 2013, Beijing, China
IJCAI 2011	<i>Program committee member</i> , 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

- 2018 — ... *Postgraduate Appeal Committee Member*, College of Arts Humanities and Social Sciences, University of Edinburgh
- 2017 — ... *Director of postgraduate programmes*, 12 MSc programmes & (E)MBA, University of Edinburgh Business School
- 2017 — ... *Member of the College Postgraduate Studies Committee*, College of Arts Humanities and Social Sciences, University of Edinburgh
- 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/MRes 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 — 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

- 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 *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

- 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

17. R. Rossi, “Declarative Statistics,” University of St Andrews, St Andrews, UK, to be confirmed
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,” 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 Akartunalı, 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

- 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 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

- J33 R. Rossi, O. Agkun, S. Prestwich, A. Tarim, "Declarative Statistics," University of Edinburgh, submitted to Artificial Intelligence
- J32 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 Omega
- J31 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

Working papers

- J38 R. Rossi, M. Brander, D. Jackson, D. Canning, "Applications of Declarative Statistics in Construction Life Cycle Assessment," working paper
- J37 R. Rossi, "jsdp: a Java Stochastic Dynamic programming Library," in preparation for INFORMS Journal on Computing
- J36 R. Rossi, Z. Chen, R. Zhang, S. A. Tarim "Optimal control policy for stochastic lot sizing under order capacity constraints," in preparation for Operations Research
- J35 R. Rossi, S. A. Tarim, "Optimal control policy for multi-item non-stationary lot sizing problem with joint replenishment cost," in preparation for Operations Research
- J34 M. Xiang, R. Rossi, B. Martin-Barragan, A. Tarim, "Computing non-stationary (R,S) policies under correlated demand," in preparation for INFORMS Journal on Computing
- J33 S. Prestwich, R. Rossi, A. Tarim, "Stochastic Constraint Programming as Reinforcement Learning," in preparation for Constraints

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

- CP23 S. Prestwich, S. A. Tarim, A. Visentin, R. Rossi, "Towards a Closer Integration of Dynamic Programming and Constraint Programming" in Proceedings of the 4th Global Conference on Artificial Intelligence (GCAI 2018), Luxembourg, 17-19 September 2018

- 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 (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
- 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

Production planning & logistics

CP12 Zhen Chen, Roberto Rossi, “A cash constrained single item stochastic lot-sizing problem,” the 9th IFAC Conference Manufacturing Modelling, Management and Control MIM 2019

CP11 Xiyuan Ma, Roberto Rossi, Thomas Archibald, “Stochastic Inventory Control: A Literature Review,” the 9th IFAC Conference Manufacturing Modelling, Management and Control MIM 2019

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

CP9 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

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

CP4 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

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

- CP2 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
- CP1 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 A. Visentin, S. D. Prestwich, R. Rossi, S. A. Tarim, "Modelling Dynamic Programming-Based Global Constraints in Constraint Programming," in Proceedings of the 6th World Congress on Global Optimization (WCGO 2019), Metz, France, July 8-10, 2019
- 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
- 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 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
<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

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 ReCCCEL 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

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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
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

57. R. Rossi, S. D. Prestwich, S. A. Tarim "jsdp: a Java Stochastic Dynamic programming Library," to be presented at the the 10th European Decision Sciences Conference, the University of Nottingham, United Kingdom, 2nd - 5th June 2019
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 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 (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 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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References

Prof. Armagan Tarim

Full Professor
Cork University Business School
University College Cork
Ireland
email: armagan.tarim@ucc.ie

Dr. Davide S. Mare

Research Economist
The World Bank
Washington, D.C.
USA
email: dmare@worldbank.org

Prof. Thomas Archibald

Professor of Management Science
Business School
University of Edinburgh
United Kingdom
email: tom.archibald@ed.ac.uk