

Dr. Roberto Rossi
BEng, MEng, PhD, FHEA
Reader in Management Science

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Summary

Edinburgh, September 30, 2017

I am a Reader in Management Science at the University of Edinburgh. 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. 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 |
| 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 |
| Apr. 2005 — Sep. 2005
(6 months) | Research Assistant at University College Cork, IRL
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 — ...

Carolina Toczycka

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

supported by EPSRC iCase

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*, Fajemisin, Ade, University College Cork, Ireland
2017 *PhD Committee member*, Sucu, Seda, University of Strathclyde, UK
2016 – ... *Associate of the EPSRC Peer Review College*, Engineering and Physical Sciences Re-
search 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 In-
tegration 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 Intelli-
gence, 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 Princi-
ples and Practice of Constraint Programming, September 16-20, 2013, Uppsala, Sweden
IJCAI 2013 *Program committee member*, 23rd International Joint Conference on Artificial Intelli-
gence, August 3-9, 2013, Beijing, China
IJCAI 2011 *Program committee member*, 22nd International Joint Conference on Artificial Intelli-
gence, 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*, 12 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 — 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

- 2016 — 2019 *Costain*, collaborative research in the context of project CITT funded by Volvo Construction Climate Challenge
- 2015 — 2016 *Costain, CENEX, Crossrail, Komatsu, JCB*, collaborative research in the context of Innovate UK funded project ReCCEL
- 2015 *Methode Electronics Inc*, consultancy on inventory record 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

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 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

- J27 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," *INFORMS Journal on Computing*, in press
- 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

- J32 R. Rossi, O. Agkun, S. Prestwich, A. Tarim, "Declarative Statistics," University of Edinburgh, submitted to Artificial Intelligence
- 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 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 Annals of Operations Research
- J29 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
- J28 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 (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

- 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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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)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

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
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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
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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

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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
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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
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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
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