

PERSONAL INFORMATION Stefano Smriglio

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Gender Male | **Date of birth** 2 July 1967 | **Nationality** Italian

WORK EXPERIENCEOctober 2020 – Present **Full professor**

Department of Information Engineering, Computer Science and Mathematics (DISIM) - University of L'Aquila

Scientific sector MAT/09 - Operations Research

October 2013 – October 2020 **Associate professor**

DISIM - University of L'Aquila

Scientific sector MAT/09 - Operations Research

2005 – 2006 **Contract professor**

Faculty of Science - University of Rome Tor Vergata

September 2001 – September 2013 **Assistant professor**

Department of Computer Science (since 2012 DISIM) - University of L'Aquila

Scientific sector MAT/09 - Operations Research

2000 – 2001 **Research fellow**

Department of Pure and Applied Mathematics - University of L'Aquila

Scientific sector MAT/09 - Operations Research

1998 – 1999 **Contract professor**

Faculty of Science - University of L'Aquila

1997 – 1998 **Contract professor**

Faculty of Science - University of L'Aquila

Visiting scholarships

2019 Department of Statistics and Operations Research - Wien University, Austria

2017 Departamento de Computación - Universidad de Buenos Aires, Argentina

2015 Wisconsin Institute for Discovery - University of Wisconsin-Madison, USA

2013 Wisconsin Institute for Discovery - University of Wisconsin-Madison, USA

2012 Department of Statistics and Operations Research - Wien University, Austria

2005 IBM T.J. Watson research center, Yorktown Heights, USA

PRIZES AND AWARDS

- 2017 Invited plenary speaker at Escuela Latinoamericana de Verano en Investigación Operativa (ELAVIO), Buenos Aires, February 2017
- 2014 Winner (with J. Ostrowski, J. Linderoth e F. Rossi) of the Informs Computing Society (ICS) Prize, <https://connect.informs.org/computing/awards/ics-prize>
- 2010 Invited speaker at MIP 2010, Georgia Institute of Technology, Atlanta, USA. (<https://www.isye.gatech.edu/news-events/events/past-conferences/2010-mixed-integer-programming-workshop>)
- 2009 Second position of the OR group of L'Aquila in the *worldwide* "Rothkopf Ranking of Universities' Contributions to the INFORMS Practice Literature", *Interfaces*, (<http://interfaces.journal.informs.org/cgi/content/abstract/37/6/566>)
- 2006 Article in the final short list at the EURO Excellence in Practice Award

TEACHING ACTIVITIES**1995 – Present Bachelor, Master and PhD Courses**

About 40 courses held in Universities

- 2014-Present Instructor of *Process and Operations Scheduling* and master theses supervisor in the following programs of the European Commission:

Erasmus Mundus Joint Master Course MathMods - *Mathematical modelling in engineering: theory, numerics, applications*

Joint Master Course InterMaths - *Applied and Interdisciplinary Mathematics*

Current assignments (University of L'Aquila)

Operations Research - bachelor in Computer Science and Master in Computer and Automation Engineering;

Process and Operations Scheduling - master in Mathematical Engineering

Past assignments (University of L'Aquila, University of Rome Tor Vergata)

Combinatorial Optimization, Algorithms and Data Structures, Coding Laboratory, Discrete Simulation

PhD courses

- 2012 *Strong Relaxations and Cutting Planes for the Stable Set Problem*, PhD program in Statistics and Operations Research - Wien University
- 2002 *Software Simulation*, PhD program in Information Engineering, University of Siena

PhD board member, University of Rome La Sapienza

2004-2012 PhD program in Operations Research

2013-2014 PhD program in Automation and Operations Research

2015-2017 PhD program in Automation, Bioengineering and Operations Research

EDUCATION AND TRAINING**1995–1998 PhD in Operations Research**

University of Rome La Sapienza

1986–1993 Master's degree in Electronic Engineering

University of Rome La Sapienza

SERVICE ACTIVITIES

- 2019-Present Member of the *commissione didattica paritetica docenti-studenti* of DISIM
- 2019-Present Party responsible of the agreement between University of L'Aquila and DXC Technology S.p.A.
- 2012 Scientific director of research fellowship SSD MAT/09
- 2011 Jury secretary for the award of the title of PhD in *Computer, Management and Automation Engineering*, Polytechnic University of Marche
- 2008 Scientific director of the project *Development of exact and heuristic algorithms for workforce management*, Department of Computer Science, University of L'Aquila
- 2008 Jury member for selection to a temporary assistant professor position, SSD MAT/09, Department of Computer Science, University of L'Aquila
- 2005 Jury secretary for selection to an assistant professor position, SSD MAT/09, Department of Mathematics University of Padova
- 2005 Jury member for admission to the PhD program in *Computer Science and Applications*, University of L'Aquila

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Digital competences

Digital competences	SELF-ASSESSMENT				
	Information Processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

Computer skills – Pascal, C, C++, and Python languages, developer level
 – Optimization software, expert level

PUBLICATIONS (SELECTION)

- J LINDEROTH, J NÚÑEZ ARES, J OSTROWSKI, F ROSSI and STEFANO SMRIGLIO
Orbital Conflict: Cutting Planes for Symmetric Integer Programs
Inform Journal on Optimization, 3 (2), Spring 2021, 139-153
- ADAM LETCHFORD, FABRIZIO ROSSI and STEFANO SMRIGLIO The Stable Set Problem: Clique and Nodal Inequalities Revisited
Computers and Operations Research, 123, November 2020, 105024
- ALESSANDRO AGNETIS, FABRIZIO ROSSI and STEFANO SMRIGLIO
Some Results on Shop Scheduling with S-Precedence Constraints among Job Tasks
Algorithms, 12/12, November 2019, 250.
- FRANCESCA MARZI, FABRIZIO ROSSI and STEFANO SMRIGLIO
Computational study of separation algorithms for clique inequalities
Soft Computing, 23/9, May 2019, 3013–3027.
- SARA MATTIA, FABRIZIO ROSSI, MARA SERVILIO and STEFANO SMRIGLIO
Staffing and scheduling flexible call centers by two-stage robust optimization
Omega, 72, October 2017, 25–37.
- ALTOBELLI, E., AMICHETTI, M., LANGIU, A., MARZI, F., MIGNOSI, F., PISCIOTTA, P., PLACIDI, G., ROSSI, F., RUSSO, F., SCHWARZ, M., SMRIGLIO, S., VENNARINI, S., Combinatorial optimisation in radiotherapy treatment planning, *AIMS Medical Science*, 5/3, May 2018, 204–223.

7. MONIA GIANDOMENICO, ADAM LETCHFORD, FABRIZIO ROSSI and STEFANO SMRIGLIO
Ellipsoidal relaxations of the stable set problem: theory and algorithms
SIAM J. Optimization, 25(3), 2015, 1944–1963.
8. MONIA GIANDOMENICO, FABRIZIO ROSSI and STEFANO SMRIGLIO
Strong lift-and-project cutting planes for the stable set problem
Mathematical Programming Ser. A, (141/1-2), October 2013, 165-192.
9. MONIA GIANDOMENICO, ADAM LETCHFORD, FABRIZIO ROSSI and STEFANO SMRIGLIO
Approximating the Lovász θ Function with the Subgradient Method
Electronic Notes in Discrete Mathematics, (41/5), June 2013, 157-164
10. JAMES OSTROWSKI, JEFF LINDEROTH, FABRIZIO ROSSI and STEFANO SMRIGLIO
Orbital Branching
Mathematical Programming Ser. A, (126/1), Number 1, January 2011, 147-178
11. JAMES OSTROWSKI, JEFF LINDEROTH, FABRIZIO ROSSI and STEFANO SMRIGLIO
Solving Large Steiner Triple Covering Problems
Operations Research Letters, (39/2), March 2011, 127-131
12. FABRIZIO MARINELLI, SALVATORE NOCELLA, FABRIZIO ROSSI and STEFANO SMRIGLIO
A Lagrangian Heuristic for Satellite Range Scheduling with Resource Constraints
Computers and Operations Research, (38/11), November 2011, 1572-1583.
13. MONIA GIANDOMENICO, FABRIZIO ROSSI and STEFANO SMRIGLIO
Routing Concurrent Video Signals over SDH Networks
Electronic Notes in Discrete Mathematics, Elsevier, (36/1) August 2010, 767-774
14. MONIA GIANDOMENICO, ADAM LETCHFORD, FABRIZIO ROSSI and STEFANO SMRIGLIO
An Application of the Lovász-Schrijver $M(K,K)$ Operator to the Stable Set Problem
Mathematical Programming, Ser A, (120/2), September 2009
15. CARLO MANNINO, FABRIZIO ROSSI, ANTONIO SASSANO and STEFANO SMRIGLIO
Time Offset Optimization in Digital Broadcasting
Discrete Applied Mathematics, (156/3), February 2008, 339–351
16. CARLO MANNINO, FABRIZIO ROSSI and STEFANO SMRIGLIO
The Network Packing Problem in Terrestrial Broadcasting
Operations Research, (54/4), July-August 2006, 611–626
17. CLAUDIO ARBIB, MARA SERVILIO and STEFANO SMRIGLIO
A Competitive Scheduling Problem and its Relevance to UMTS Channel Assignment
Networks, (44/2), 2004, 132–141
18. ALESSANDRO AGNETIS, FABRIZIO ROSSI and STEFANO SMRIGLIO
An implicit enumeration scheme for the batch selection problem
Networks, (44/2), 2004, 151–159
19. FABRIZIO ROSSI, ANTONIO SASSANO and STEFANO SMRIGLIO
Models and Algorithms for Terrestrial Digital Broadcasting
Annals of Operations Research, (107), 2001, 267–283
20. FABRIZIO ROSSI and STEFANO SMRIGLIO
A Branch-and-Cut Algorithm for the Maximum Cardinality Stable Set Problem
Operations Research Letters (28/2), 2001, 63–74
21. FABRIZIO ROSSI and STEFANO SMRIGLIO
A Set Packing Model for the Ground-Holding Problem in Congested Networks
European Journal of Operational Research, (131/2), 2001, 400–416
22. MARIO LUCERTINI, FERNANDO NICOLÒ and STEFANO SMRIGLIO
Assignment and Sequencing of Parts to Autonomous Workstations
Control and Cybernetics, (29), 2000, 1–16
23. ALESSANDRO AGNETIS and STEFANO SMRIGLIO
Optimal Assignment of High-Multiplicity Flight Plans to Dispatchers
Naval Research Logistics, (47), 2000, 360–375
24. CLAUDIO ARBIB, DARIO PACCIARELLI and STEFANO SMRIGLIO
A three-dimensional matching model for perishable production scheduling
Discrete Applied Mathematics, (92), 1999, 1–15

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

L' Aquila, 19-2-2022