

Andrea Lodi

Professor

Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi"

Academic discipline: MAT/09 Operations Research

Curriculum vitae

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VITAE and EDUCATION:

- 1969, Born in Bologna, Italy.
- 1994, University degree in Electronic Engineering from the University of Bologna. Advisers: Silvano Martello and Mauro Dell'Amico, thesis "The k-Cardinality Assignment Problem".
- 1999, Ph.D. in System Engineering from the University of Bologna. Advisers: Silvano Martello and Paolo Toth, thesis "Algorithms for Two-Dimensional Bin Packing and Assignment Problems".

POSITIONS:

- 2000--2004, Research Associate in the Operations Research Group at the Department of Electronics, Computer Sciences and Systems (DEIS) of the University of Bologna.
- 2005--2007, Associate Professor of Operations Research at DEIS, University of Bologna.
- 2007 to date, Full Professor of Operations Research at DEIS, University of Bologna.

VISITING POSITIONS:

- 1996 (November) -- 1997 (March), Research Scholar at the Mathematics Department of the Swiss Federal Institute of Technology, Lausanne, Switzerland.
- 2005 (February-September), Herman Goldstine Fellow at the IBM T.J. Watson Research Center, Yorktown Heights (NY), USA.
- 2006 (April-August), Herman Goldstine Fellow at the IBM T.J. Watson Research Center, Yorktown Heights (NY), USA.
- 2010 (May), CIRRELT Montreal
- 2011 (June-July) IBM T.J. Watson Research Center, Yorktown Heights (NY), USA.

PRIZES:

- "2004-2005 IBM Herman Goldstine Postdoctoral Fellowship in Mathematical Sciences".
- 2010 Google Faculty Research Award.
- 2011 IBM Faculty Award.

EDITORIAL ACTIVITY:

- 2006-2012, Editorial Board and Book Review Editor, "Algorithmic Operations Research".
- 2007-2010, Editor in Chief of "Optima", Newsletter della Mathematical Programming Society.
- 2007-2008, Editorial Board, "Constraint Programming Letters".

- 2004 to date, Associate Editor, "Mathematical Programming Series A".
- 2007 to date, Associate Editor, "INFORMS Journal on Computing".

- 2008 to date, Associate Editor, "Mathematical Programming Computation".
- 2009 to date, Associate Editor, "Management Science".
- 2011 to date, Editor, "EURO Journal on Transportation and Logistics".
- 2011 to date, Associate Editor, "Surveys in Operations Research and Management Science"
- 2011 to date, Associate Editor, "Omega"

INDUSTRIAL CONTRACTS:

- 2006-2008, researcher for the contract between DEIS and Nokia-Siemens Network
- 2006 to date, IBM (former ILOG) consultant, Cplex team

RECENT RESEARCH PROJECTS:

- Vigoni Italian-German Exchange Program, Bologna-Cologne, "Exact Algorithms for Robust Network Design Problems", unit leader (2011-2012)
- MIUR - Prin 2009, "Integrated Approaches for Discrete and Non Linear Optimization", principal investigator and National coordinator (2011–2013)
- FP7-PEOPLE-2012-ITN, "Mixed-Integer Nonlinear Optimization", Network Coordinator (2012-2016)
- ICT COST ACTION TD1207, "Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks", Network Coordinator (2013-2017)

RESEARCH INTERESTS:

Andrea Lodi main research interests are in the closely related areas of Integer Programming and Combinatorial Optimization where he gave contributions on the design and analysis both theoretical and empirical of algorithms for NP-hard problems.