

Curriculum vitae of Matteo Fischetti

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H-index : 44 ([Google Scholar](#))

Personal

Born in 1958. Italian. Married. One daughter.

Education

University of Bologna, “Laurea in Ingegneria Elettronica” 100/100 cum laude (1982)

University of Bologna, PhD degree “Dottorato di Ricerca in Ingegneria dei Sistemi” (1987)

Professional Experience

Assistant Professor in “Operations Research” Dipartimento di Elettronica, Informatica e Sistemistica, University of Bologna (1990-1992)

Associate Professor in “Operations Research” Dipartimento di Elettronica ed Informatica, University of Padova (1992-1994)

Full Professor in “Operations Research” Dipartimento di Ingegneria Elettrica, University of L’Aquila (1994-1995), Dipartimento di Matematica ed Informatica, University of Udine (1995-1997), and Dipartimento di Elettronica ed Informatica, University of Padova (1997-)

Research Interests

Mixed Integer Programming, Railway Optimization, Combinatorial Optimization, Vehicle Routing and Scheduling Problems, Polyhedral Combinatorics.

Professional Activities

Member of the Editorial Board of the international journals “Mathematical Programming Computation”, “Journal of Combinatorial Optimization”, and “4OR”

Plenary speaker at Matheuristic 2012, Angra dos Reis, September 2012

Semiplenary speaker at EURO XXV, Vilnius, July 2012

Plenary speaker at VeRoLog 2012, Bologna, June 2012

Plenary speaker at Mathematical Programming Symposium, Chicago, August 2009

Chair of the international Program Committee for the meeting “Integer Programming and Combinatorial Optimization”, 2007

Semiplenary speaker at the Mathematical Programming Symposium, Lausanne, July 1997

Plenary speaker at the EuroGP2005 & EvoCOP2005 meeting, Lausanne, March 2005

Member of the international Program Committee for the meeting “Integer Programming and Combinatorial Optimization” Copenhagen, May 1995

Plenary speaker at the 1st Nordic Optimization Symposium, Copenhagen, April 2006

Semiplenary speaker at the SOR '99 meeting, Magdeburg, September 1999

Chair of the international Program Committee for the meeting ATMOS 2008

Member of the Program Committee for the meeting ATMOS 2007

Invited speaker at the University of Pittsburgh, New York, Augsburg, Berlin, Copenhagen, Tenerife, Milano, Pisa, Torino, Roma, etc.

Member of MOS (the Mathematical Optimization Society) and of AIRO (the Italian Operations Research society)

Consultant for Optimization Problems of World Bank, Ferrovie dello Stato, Agip-Petroli, Sogesta, Ars-Enidata, Rasimelli e Coletti, Sisplan, etc.

Research Projects supported by MURST/MIUR, Italy.

Research Project “Parallel Algorithms for Network Flow Problems” supported by N.A.T.O.

Research Projects “Progetto Finalizzato Trasporti I and II” supported by C.N.R., Italy

Research Project “ALPI” supported by FS-Ferrovie dello Stato, Italy (1993-1996)

Research Project “FASTER” supported by FS-Ferrovie dello Stato, Italy (1994-1997)

Research Project “FARO” supported by FS-Ferrovie dello Stato, Italy (1995-1998)

Research Project “SDC” supported by the Esprit programme, European Union (1995-1997)

Research Project “Europe-TRIS” supported by the Telematics Applications Programme, European Union (1995-1998)

Research Project “Europe-TRIO” supported by the Telematics Applications Programme, European Union (1997-1999)

Research Project “CASC” supported by the European Union (2000-2004)

Research Project “ARRIVAL” supported by the European Union (2005-2008)

Prizes

First Prize “Best Young Researcher” awarded by A.I.R.O. (the Italian Operations Research Society), 1987

First International Prize “Best Ph.D. Dissertation on Transportation” awarded by the Operations Research Society of America (the first prize awarded by O.R.S.A. for a Ph.D. thesis developed outside U.S.A.), 1987

First Prize “FASTER” awarded by FS-Ferrovie dello Stato for the best computer code for solving very large set-covering problems arising in railway scheduling (jointly with A. Caprara and P. Toth), 1994

First Prize “FARO” awarded by FS-Ferrovie dello Stato for the best computer code for solving a bus-driver scheduling problem arising in railway applications (jointly with A. Caprara, P. Toth and D. Vigo), 1995

Finalist of the INFORMS “Daniel H. Wagner Prize for Excellence in Operations Research Practice” with the paper “Reinventing Crew Scheduling at Netherlands Railways (jointly with Erwin Abbink, Leo Kroon, Gerrit Timmer, and Michiel Vromans), 2004

Winner of the 2008 INFORMS Edelman award (the Oscar for OR practice) for the entry “The New Dutch Timetable: The O.R. Revolution” (jointly with the Netherlands Railways team: Leo Kroon, Dennis Huisman, Erwin Abbink, Pieter-Jan Fioole, Gabor Maroti, Lex Schrijver, Adri Steenbeek, Roelof Ybema), 2008.

Publications

- [1] M. Fischetti, "Worst-Case Analysis of an Approximation Scheme for the Subset-Sum Problem" *Operations Research Letters* 6, 283-284, 1986.
- [2] M. Fischetti, S. Martello, P. Toth, "The Fixed Job Schedule Problem with Spread-Time Constraints" *Operations Research* 35, 849-858, 1987.
- [3] M. Fischetti, S. Martello, "Worst-Case Analysis of the Differencing Method for the Partition Problem" *Mathematical Programming A* 37, 117-120, 1987.
- [4] M. Fischetti, S. Martello, "A Hybrid Algorithm for Finding the k -th Smallest of n Elements in $O(n)$ Time" *Annals of Operations Research* 13, 401-419, 1988.
- [5] M. Fischetti, P. Toth, "An Additive Approach for the Optimal Solution of the Prize-Collecting Travelling Salesman Problem" in *Vehicle Routing: Methods and Studies* (B.L. Golden and A.A. Assad ed.s), North Holland, Amsterdam, 319-343, 1988.
- [6] M. Fischetti, P. Toth, "A New Dominance Procedure for Combinatorial Optimization Problems" *Operations Research Letters* 7, 181-187, 1988.
- [7] M. Fischetti, S. Martello, P. Toth, "The Fixed Job Schedule Problem with Working-Time Constraints" *Operations Research* 37, 395-403, 1989.
- [8] M. Fischetti, P. Toth, "An Additive Bounding Procedure for Combinatorial Optimization Problems" *Operations Research* 37, 319-328, 1989.
- [9] G. Carpaneto, M. Dell'Amico, M. Fischetti, P. Toth, "A Branch and Bound Algorithm for the Multiple Depot Vehicle Scheduling Problem" *Networks* 19, 531-548, 1989.
- [10] G. Carpaneto, M. Fischetti, P. Toth, "New Lower Bounds for the Symmetric Travelling Salesman Problem" *Mathematical Programming B* 45, 233-254, 1989.
- [11] M. Fischetti, "A New Linear Storage, Polynomial-Time Approximation Scheme for the Subset-Sum Problem" *Discrete Applied Mathematics* 26, 61-77, 1990.

- [12] M. Fischetti, "Facets of the Asymmetric Traveling Salesman Polytope" *Mathematics of Operations Research* 16, 42-56, 1991.
- [13] M. Fischetti, "Facets of Two Steiner Arborescence Polyhedra" *Mathematical Programming A* 51, 401-419, 1991.
- [14] M. Fischetti, P. Toth, "An Additive Bounding Procedure for the Asymmetric Travelling Salesman Problem" *Mathematical Programming A* 53, 173-197, 1992.
- [15] M. Fischetti, S. Martello, P. Toth, "Approximate Algorithms for Fixed Job Schedule Problems" *Operations Research* 40, S96-S108, 1992.
- [16] E. Balas, M. Fischetti, "The Fixed Out-Degree 1-Arborescence Polytope" *Mathematics of Operations Research* 17, 1001-1018, 1992.
- [17] M. Fischetti, Three Lifting Theorems for the Asymmetric Traveling Salesman Polytope; in *Integer Programming and Combinatorial Optimization* (E. Balas, G. Cornuejols, R. Kannan ed.s), IPCO II Proceedings, Carnegie Mellon University, Pittsburgh, 260-273, 1992.
- [18] M. Dell'Amico, M. Fischetti, P. Toth, "Heuristic Algorithms for the Multiple Depot Vehicle Scheduling Problem" *Management Science* 39, 115-125, 1993.
- [19] M. Fischetti, G. Laporte, S. Martello, "The Delivery Man Problem and Cumulative Matroids" *Operations Research* 41, 1055-1064, 1993.
- [20] E. Balas, M. Fischetti, "A Lifting Procedure for the Asymmetric Traveling Salesman Polytope and a Large New Class of Facets" *Mathematical Programming A* 58, 325-352, 1993.
- [21] M. Fischetti, P. Toth, "An Efficient Algorithm for the Min-Sum Arborescence Problem" *ORSA Journal on Computing* 5, 426-434, 1993.
- [22] M. Fischetti, P. Toth, D. Vigo, "A Branch and Bound Algorithm for the Capacitated Vehicle Routing Problem on Directed Graphs" *Operations Research* 42, 846-859, 1994.
- [23] M. Fischetti, H.W. Hamacher, K. Joernsten, F. Maffioli, " k -Cardinality Trees: Complexity and Polyhedral Structure" *Networks* 24, 11-21, 1994.
- [24] M. Fischetti, "Clique Tree Inequalities Define Facets of the Asymmetric Traveling Salesman Polytope" *Discrete Applied Mathematics* 56, 9-18, 1995.
- [25] E. Balas, M. Fischetti, W.R. Pulleyblank, "The Precedence-Constrained Asymmetric Traveling Salesman Polytope" *Mathematical Programming A*, 68, 241-265, 1995.
- [26] M. Fischetti, J.J. Salazar, P. Toth, "The Symmetric Generalized Travelling Salesman Polytope" *Networks* , 26/2, 113-123, 1995.
- [27] A. Caprara, M. Fischetti, D. Maio, "Exact and Approximate Algorithms for the Index Selection Problem in Physical Database Design" *IEEE Transactions on Knowledge and Data Engineering*, 7/6, 955-967, 1995.

- [28] A. Caprara, M. Fischetti, "0-1/2 Chvatal-Gomory Cuts" *Mathematical Programming A*, 74, 221-235, 1996.
- [29] A. Caprara, M. Fischetti, "Odd Cut-sets, Odd Cycles, and 0-1/2 Chvatal-Gomory Cuts", *Ricerca Operativa*, 26, 51-80, 1996.
- [30] M. Fischetti, D. Vigo, "A Branch-and-Cut Algorithm for the Resource-Constrained Arborescence Problem" *Networks* 29, 55-67, 1997.
- [31] M. Fischetti, J.J. Salazar, P. Toth, "A Branch-and-Cut Algorithm for the Symmetric Generalized Travelling Salesman Problem" *Operations Research* 45, 3, 378-393, 1997.
- [32] A. Caprara, M. Fischetti, P. Toth, D. Vigo, P.L. Guida, "Algorithms for Railway Crew Management" *Mathematical Programming B* 79, 125-141, 1997.
- [33] A. Caprara, M. Fischetti, "Branch-and-Cut Algorithms: an Annotated Bibliography", in *Annotated Bibliographies in Combinatorial Optimization*, M. Dell'Amico, F. Maffioli and S. Martello eds., John Wiley and Sons, 45-63, 1997.
- [34] E. Balas, M. Fischetti, "On the Monotonization of Polyhedra" *Mathematical Programming A* 78, 59-84, 1997.
- [35] M. Fischetti, P. Toth, "A Polyhedral Approach to the Asymmetric Traveling Salesman Problem" *Management Science* 43, 11, 1520-1536, 1997.
- [36] M. Fischetti, J.J. Salazar, P. Toth, "Solving the Orienteering Problem Through Branch and Cut" *INFORMS Journal on Computing* 10, 2, 133-148, 1998.
- [37] M. Fischetti, J.J. Salazar, "Experiments with Controlled Rounding for Statistical Disclosure Control in Tabular Data with Linear Constraints" *Journal of Official Statistics* 17, 4, 101-113, 1998.
- [38] A. Caprara, M. Fischetti, P. Toth, D. Vigo, "Models and Algorithms for the Crew Rostering" *Operations Research* 46, 6, 820-830, 1998.
- [39] M. Fischetti, J.J. Salazar, "Models and Algorithms for the Cell Suppression Problem in Statistical Disclosure Control" *Mathematical Programming A* 84, 283-312, 1999.
- [40] E. Balas, M. Fischetti, "Lifted Cycle Inequalities for the Asymmetric Traveling Salesman Problem" *Mathematics of Operations Research* 24, 2, 273-292, 1999.
- [41] A. Caprara, M. Fischetti, P. Toth, "A Heuristic Method for the Set Covering Problem" *Operations Research* 47, 5, 730-743, 1999.
- [42] M. Fischetti, P.L. Guida, "I Turni delle Locomotive" in S. Pallottino, A. Sciomachen (eds.), *Scienze delle Decisioni per i Trasporti*, Collana Trasporti, Franco Angeli, 476-494, 1999 (in Italian).
- [43] A. Caprara, M. Fischetti, P.L. Guida, P. Toth, D. Vigo, "Solution of Large-Scale Railway Crew Planning Problems: the Italian Experience" in N.H.M. Wilson (ed.), *Computer-Aided*

Transit Scheduling, Lecture Notes in Economics and Mathematical Systems, Springer-Verlag, 1-18, 1999.

- [44] A. Caprara, M. Fischetti, A.N. Letchford, "On the Separation of Maximally Violated Mod-k Cuts" *Mathematical Programming A* 87, 37-56, 2000.
- [45] L. Brunetta, M. Conforti, M. Fischetti, "A Polyhedral Approach to a Multicommodity Flow Problem" *Discrete Applied Mathematics* 101, 13-36, 2000.
- [46] M. Fischetti, C. Lepschy, G. Minerva, G. Romanin Jacur, E. Toto, "Frequency Assignment in Mobile Radio Systems Using Branch-and-Cut Techniques" *European Journal of Operational Research* 123, 241-255, 2000.
- [47] N. Ascheuer, M. Fischetti, M. Groetschel, "A Polyhedral Study of the Asymmetric Travelling Salesman Problem with Time Windows" *Networks* 36(2), 69-79, 2000.
- [48] M. Fischetti, J.J. Salazar, "Models and Algorithms for Optimizing Cell Suppression in Tabular Data with Linear Constraints" *Journal of the American Statistical Association* 95, 915-928, 2000.
- [49] A. Caprara, P. Toth, M. Fischetti, "Algorithms for the Set Covering Problem" *Annals of Operations Research* 89, 353-371, 2000.
- [50] N. Ascheuer, M. Fischetti, M. Groetschel, "Solving the Asymmetric Travelling Salesman Problem with Time Windows by Branch-and-Cut" *Mathematical Programming A* 90, 475-506, 2001.
- [51] M. Fischetti, J.J. Salazar, "Solving the Cell Suppression Problem on Tabular Data with Linear Constraints" *Management Science* 47, 7, 1008-1027, 2001.
- [52] M. Fischetti, A. Lodi, S. Martello, P. Toth, "A Polyhedral Approach to Simplified Crew Scheduling and Vehicle Scheduling Problems" *Management Science* 47, 6, 833-850, 2001.
- [53] M. Fischetti, J.J. Salazar, "Combining Complete and Partial Cell Suppression Methodologies in Statistical Disclosure Control", *Statistical Journal of the United Nations ECE* 18, 355-361, 2001.
- [54] L. Kroon, M. Fischetti, "Crew Scheduling for Netherlands Railways: Destination Customer", in S. Voss and J.R. Daduna (ed.s), *Computer-Aided Scheduling of Public Transport*, Lecture Notes in Economics and Mathematical Systems, Springer-Verlag, 181-201, 2001.
- [55] A. Caprara, M. Fischetti, P.L. Guida, M. Monaci, G. Sacco, P. Toth, "Solution of Real-World Train Timetabling Problems", *Proceedings of the 34-th Hawaii International Conference on System Sciences (HICSS 34)*, IEEE Computer Society Press, 2001.
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- [57] A. Caprara, M. Fischetti, P. Toth, "Modelling and Solving the Train Timetabling Problem", *Operations Research* 50(5), 851-861, 2002.

- [58] E. Balas, M. Fischetti, "Polyhedral Theory for the Asymmetric Traveling Salesman Problem", in *The Traveling Salesman Problem and its Variations*, G. Gutin and A. Punnen ed.s, Kluwer, 117-168, 2002.
- [59] M. Fischetti, A. Lodi, P. Toth, "Exact Methods for the Asymmetric Traveling Salesman Problem", in *The Traveling Salesman Problem and its Variations*, G. Gutin and A. Punnen ed.s, Kluwer, 169-206, 2002.
- [60] M. Fischetti, J.J. Salazar, P. Toth, "The Generalized Traveling Salesman and Orienteering Problems", in *The Traveling Salesman Problem and its Variations*, G. Gutin and A. Punnen ed.s, Kluwer, 609-662, 2002.
- [61] M. Fischetti, G. Romanin Jacur, J.J. Salazar, "Optimisation of the Interconnecting Network of a UMTS Radio Mobile Telephone System", *European Journal of Operational Research*, 144, 56-67, 2003.
- [62] M. Fischetti, J.J. Salazar, "Partial Cell Suppression: A new Methodology for Statistical Disclosure Control", *Statistics and Computing* 13, 13-21, 2003.
- [63] M. Fischetti, A. Lodi, "Local Branching", *Mathematical Programming B*, 98, 23-47, 2003.
- [64] M. Fischetti, C. Polo, M. Scantamburlo, "A Local Branching Heuristic for Mixed-Integer Programs with 2-Level Variables", *Networks* 44, 2, 61-72, 2004.
- [65] E. Abbink, M. Fischetti, L. Kroon, G. Timmer, M. Vromans, "Reinventing Crew Scheduling at Netherlands Railways", *Interfaces* 35(5), 393-401, 2005 (finalist of the 2004 INFORMS "Daniel H. Wagner Prize for Excellence in Operations Research Practice")
- [66] M. Fischetti, F. Glover, A. Lodi, "The Feasibility Pump", *Mathematical Programming A*, 104, 91-104, 2005.
- [67] I. Ljubic, R. Weiskircher, U. Pferschy, G. Klau, P. Mutzel, M. Fischetti, "An Algorithmic Framework for the Exact Solution of the Prize-Collecting Steiner Tree Problem", *Mathematical Programming B*, 105 (2-3), 427-449, 2006.
- [68] R. De Franceschi, M. Fischetti, P.Toth, "A New ILP-based Refinement Heuristic for Vehicle Routing Problems", *Mathematical Programming B*, 105 (2-3), 471-499, 2006.
- [69] G. Codato, M. Fischetti, "Combinatorial Benders' Cuts for Mixed-Integer Linear Programming", *Operations Research* 54(4), 756-766, 2006.
- [70] E. Balas, R. Carr, M. Fischetti, N. Simonetti, "New Facets of the STS Polytope Generated from Known Facets of the ATS Polytope", *Discrete Optimization* 3, 3-19, 2006.
- [71] M. Fischetti, C. Saturni, "Mixed-Integer Cuts from Cyclic Groups", *Mathematical Programming A*, 109(1), 27-53, 2007.

- [72] L. Bertacco, M. Fischetti, A. Lodi, "A Feasibility Pump Heuristic for General Mixed-Integer Problems", *Discrete Optimization* 4, 63-76, 2007.
- [73] M. Fischetti, A. Lodi, "Optimizing over the first Chvátal closure" *Mathematical Programming B*, 110(1), 3-20, 2007.
- [74] G. Andreello, A. Caprara, M. Fischetti, "Embedding Cuts in a Branch and Cut Framework: a Computational Study with $\{0,1/2\}$ -Cuts", *INFORMS Journal on Computing* 19(2), 229-238, 2007.
- [75] M. Fischetti, A. Lodi, "MIPping closures: an instant survey", *Graphs and Combinatorics* 23, 233-243, 2007. DOI 10.1007/s00373-007-0711-62007, 2007.
- [76] M. Fischetti, D. Williamson (ed.s), "Integer Programming and Combinatorial Optimization", *Proceedings of the 12th International IPCO Conference*, Ithaca, NY, USA, June 25-27, 2007.
- [77] M. Fischetti, A. Lodi, "Repairing MIP infeasibility through Local Branching", *Computers and Operations Research* 35, 1436-1445, 2008.
- [78] P. Bonami, G. Cornuejols, S. Dash, M. Fischetti, A. Lodi, "Projected Chvatal-Gomory cuts for Mixed Integer Linear Programs", *Mathematical Programming A* 113, 241-257, 2008.
- [79] L. Bertacco, L. Brunetta, M. Fischetti, "The Linear Ordering Problem with Cumulative Costs", *European Journal of Operational Research* 189, 1345-1357, 2008.
- [80] M. Fischetti, M. Monaci, "How tight is the corner relaxation?", *Discrete Optimization* 5, 262-269, 2008.
- [81] L. Kroon, D. Huisman, E. Abbink, P.-J. Fioole, M. Fischetti, G. Maroti, A. Schrijver, A. Steenbeek, R. Ybema, "The New Dutch Timetable: The O.R. Revolution", *Interfaces* 39 (1), 6-17, 2009 (winner of the 2008 Franz Edelman Award "Achievement in Operations Research").
- [82] M. Fischetti, I. Luzzi, "Mixed-integer programming models for nesting problems", *Journal of Heuristics* 15(3), 201-226, 2009.
- [83] M. Fischetti, D. Salvagnin, A. Zanette, "Fast approaches to improve the robustness of a railway timetable", *Transportation Science* 43, 321-335, 2009.
- [84] M. Fischetti, M. Monaci, "Light Robustness", in R.K. Ahuja, R. Moehring, C. Zaroliagis, Eds., *Robust and Online Large-Scale Optimization*, *Lecture Notes in Computer Science* 5868, Springer-Verlag, Berlin Heidelberg, 61-84, 2009.
- [85] M. Fischetti, D. Salvagnin, "Feasibility Pump 2.0", *Mathematical Programming Computation*, 1, 201-222, 2009.
- [86] M. Fischetti, A. Lodi, D. Salvagnin, "Just MIP it!", in V. Maniezzo, T. Stautzle, S. Voss, Eds., *Matheuristics: Hybridizing Metaheuristics and Mathematical Programming*, *Annals of Information Systems* 10, 39-70, 2009.

- [87] M. Fischetti, D. Salvagnin, "Pruning moves", *INFORMS Journal on Computing* 22(1), 108-119, 2010.
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- [89] M. Fischetti, D. Salvagnin, A. Zanette, "A note on the selection of Benders' cuts", *Mathematical Programming B*, 124, 175-182, 2010.
- [90] M. Fischetti, A. Lodi, "On the knapsack closure of 0-1 Integer Linear Programs", *Electronic Notes in Discrete Mathematics*, 36, 799-804, 2010.
- [91] M. Fischetti, D. Salvagnin, "An in-out approach to disjunctive optimization", *CPAIOR, Lecture Notes in Computer Science*, Vol. 6140, 136-140, 2010.
- [92] M. Fischetti, A. Lodi, "Heuristics in Mixed Integer Programming " , *Wiley Encyclopedia of Operations Research and Management Science* (James J. Cochran ed.), John Wiley & Sons, Vol. 8, 738-747, 2011.
- [93] M. Fischetti, A. Lodi, A. Tramontani, "On the separation of disjunctive cuts", *Mathematical Programming A*, 128 (1-2), 205-230, 2011; DOI: 10.1007/s10107-009-0300-y.
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- [95] M. Fischetti, D. Salvagnin, "A relax-and-cut framework for Gomory's mixed integer cuts", *Mathematical Programming Computation*, 3, 79-102, 2011.
- [96] M. Fischetti, M. Monaci, "Backdoor branching", *IPCO Proceedings*, 2011 (to appear in *INFORMS Journal on Computing*)
- [97] E. Balas, M. Fischetti, A. Zanette, "A hard integer program made easy by lexicography", *Mathematical Programming A*, 135 (1), 509-514, 2012; DOI 10.1007/s10107-011-0450-6
- [98] V. Cacchiani, A. Caprara, M. Fischetti, "A Lagrangian heuristic for robustness, with an application to train timetabling", *Transportation Science* 46 (1), 124-133, 2012.
- [99] M. Fischetti, M. Monaci, "Branching on nonchimerical fractionalities", *Operations Research Letters* 40, 159-164, 2012.
- [100] M. Fischetti, M. Monaci, D. Salvagnin, "Three ideas for the Quadratic Assignment Problem", *Operations Research* 60 (4), 954-964, 2012.
- [101] M. Fischetti, M. Monaci, "Cutting plane versus compact formulations for uncertain (integer) linear programs", *Mathematical Programming Computation* 4 (3), 239-273, 2012; DOI 10.1007/s12532-012-0039-y.
- [102] M. Fischetti, L. Liberti, "Orbital shrinking", *Lecture Notes in Computer Science*, Vol. 7422, 48-58, 2012, DOI: 10.1007/978-3-642-32147-4_6

[103] M. Fischetti, D. Salvagnin, “Approximating the split closure”, to appear in Mathematical Programming Computation, 2013.

Recent technical reports (some available at www.dei.unipd.it/~fisch/papers)

N.L. Boland, A.C. Eberhard, F. G. Engineer, M. Fischetti, M.W.P. Savelsbergh, A.Tsoukalas, “Boosting the Feasibility Pump”, 2011.

M. Fischetti, M. Monaci, “Exploiting erraticism in search”, 2012.

M. Fischetti, G. Sartor, A. Zanette “A MIP-and-refine matheuristic for smart grid energy management”, 2012.

M. Fischetti, “Fast training of Support Vector Machines with Gaussian kernel”, 2013.