

# CURRICULUM VITAE

of

## FEDERICO DELLA CROCE DI DOJOLA

Born in Torino (March 1962).

Current working position: Full Professor of Operations Research

Working site: Dipartimento di Ingegneria Gestionale e della Produzione - Politecnico di Torino,  
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### STUDIES

- **Graduation** in Electronic Engineering, Politecnico di Torino (February 1988).
- **Master** in Computer Science and Automation, Politecnico di Torino (April 1990).
- **Ph.D** in Computer Science and Systems Engineering, Politecnico di Torino ( September 1993).

### WORKING EXPERIENCE

- December 1992 - November 1993 - Consultant for Politecnico di Torino in EEC Brite-Euram Project "ScheduleZ".
- April 1994 - November 1995 - Post-doctoral fellowship from "D.A.I., Politecnico di Torino" on the research topic "Flexible Manufacturing Systems scheduling".
- March 1995: Qualified for the position "Maitre de Conference" in France.
- November 1995 - October 1998: Assistant Professor of Operations Research at Politecnico di Torino.
- November 1998 - December 2010: Associate Professor of Operations Research at Politecnico di Torino.
- From January 2011: Full Professor of Operations Research at Politecnico di Torino.

### SCIENTIFIC ACTIVITY

The scientific activity is mainly focused on Combinatorial Optimization and Production Scheduling.

### Main research interests

- Combinatorial optimization: exact and heuristic approaches, worst-case complexity of exact approaches, approximation algorithms;
- Scheduling, Timetabling;
- Graph Theory.

## **CURRENT TEACHING ACTIVITY**

*Operations Research (in Italian)* - Politecnico di Torino - Studies in Management and Industrial Engineering.

*Quantitative methods and Decision Aid (in English)* - Politecnico di Torino - Studies in Management and Industrial Engineering.

## **ACTIVITY ABROAD**

- February – September 1992 and May-September 1993: Carnegie Mellon University (Pittsburgh, USA) Invited Visiting Scholar.
- February 1998: Université Paris 1 / Sorbonne (Paris, France) Invited Visiting "Maitre de Conférence".
- June 2000: Université de Tours (Tours, France) Invited Visiting Professor.
- June 2003: Université de Tours (Tours, France) Invited Visiting Professor.
- June 2004: LAMSADE - Université de Paris Dauphine (Paris, France) Invited Visiting Professor.
- September 2004 – June 2005: LAMSADE - Université de Paris Dauphine (Paris, France) Invited Visiting Professor.
- June 2007: Université de Tours (Tours, France) Invited Visiting Professor.
- March 2009: LAMSADE - Université de Paris Dauphine (Paris, France) Invited Visiting Professor.
- June 2009: Florida International University (Miami, USA) Invited Visiting Professor.
- May 2010: LAMSADE - Université de Paris Dauphine (Paris, France) Invited Visiting Professor.
- June 2011: Université de Tours (Tours, France) Invited Visiting Professor.
- Invited Plenary Speaker at MISTA 2013 (6th Multidisciplinary International Scheduling Conference: Theory and Applications), Ghent, Belgium, August 2013.
- November 2015: LAMSADE - Université de Paris Dauphine (Paris, France) Invited Visiting Professor.
- November 2016: Université de Tours (Tours, France) Invited Visiting Professor.

Short further visits to University of Wisconsin (Milwaukee, USA, 1993 and 1996), Ball State University (Muncie, USA 1994 1996), LAMSADE - Université de Paris Dauphine (Paris, France, 1995, 1997, 1998, 2002, 2003, 2006), Université Libre de Bruxelles (Bruxelles, Belgium, 2000, 2005), Université de Tours (Tours, France, 1999, 2001, 2002, 2013, 2014 and 2015), Florida International University (Miami, USA, 2013, 2014 and 2015), University of Graz (Graz, Austria, 2016), RMIT (Melbourne, Australia, 2017)..

## **ORGANIZING ACTIVITY**

### **Local Activity**

- From 2017: member of the Lecturers Councils for the PhD Course in "Management, Production and Design" of Politecnico di Torino.
- 1998-2008 and from 2012: member of the Lecturers Councils for the PhD Course in "Computer Science and Systems Engineering" of Politecnico di Torino.
- 2001-2005: member of the teaching Committee for Course of Studies in Management Engineering of Politecnico di Torino.
- 2004-2015: member of the Directive Council of the "Dipartimento di Automatica ed Informatica" of Politecnico di Torino.

- 2012-2015: Head of the “Dipartimento di Automatica ed Informatica” of Politecnico di Torino.
- 2012-2015: member of the Senate of Politecnico di Torino.
- 2018- : Vice Head of the “Dipartimento di Ingegneria Gestionale e della Produzione” of Politecnico di Torino.

### **National and International Activity**

- 1997: Co-organizer of AIRO’97 (Italian National OR Conference) and ESIXV (Fifteenth EURO Summer Institute on "Production Scheduling: deterministic, stochastic and fuzzy approaches") held at Saint Vincent (AO) in September 1997.
- 1999-2004s: member of the Directive Council of the Italian OR Society.
- 2000: member of the Scientific Committee of ROADEF’2000 (Troisième congrès national de la Société Française de Recherche Opérationnelle et d'Aide à la Décision, Nantes, France, January 2000).
- 2003: member of the Scientific Committee of IEPM’2003 (Fourth International Conference on Industrial Engineering and Production Management, Porto, Portugal, August 2003).
- 2004: member of the Program Committee of EUROXX, Rhodes (Greece), July 2004.
- 2005: member of the Scientific Committee of ROADEF’2005 (Sixième congrès national de la Société Française de Recherche Opérationnelle et d'Aide à la Décision, Tours, France, February 2005).
- 2005: member of the Program Committee of MAPSP 2005 (7th Workshop on Models and Algorithms for Planning and Scheduling Problems, Siena, Italy, June 2005).
- 2009: member of the Program Committee of AIRO’09 (Italian National OR Conference), Siena, Italy, September 2009.
- 2011: member of the Program Committee of MIC 2011 (Metaheuristic International Conference), Udine, Italy, July, 2011.
- 2012: member of the Program Committee of ISCO 2012 (International Symposium on Combinatorial Optimization), Athens, Greece, April 2012.
- From 2013, holding a CNR-IEIIT association (within research group “Systems and Control Technologies”).
- From 2015, member of the Editorial Board of the *European Journal of Operational Research*.
- From 2016, member of the Editorial Board of *Computers and Operations Research*.

## **PUBLICATIONS**

### **Papers published or accepted for publication on international journals**

1. F. Della Croce, U. Pferschy, R. Scatamacchia, “Approximating the 3-period Incremental Knapsack Problem”, *Journal of Discrete Algorithms*, forthcoming.
2. F. Della Croce, U. Pferschy, R. Scatamacchia, “New exact approaches and approximation results for the Penalized Knapsack Problem”, *Discrete Applied Mathematics*, forthcoming.
3. J.C. Billaut, F. Della Croce, F. Salassa, V. T’kindt, “No-idle, no-wait: when shop scheduling meets dominoes, Eulerian paths and Hamiltonian paths”, *Journal of Scheduling*, forthcoming.

4. M. Garraffa, L. Shang., F. Della Croce, V. T'kindt, "An exact exponential branch-and-merge algorithm for the single machine total tardiness problem", *Theoretical Computer Science*, 745, 2018, 133-149
5. F. Della Croce, F. Salassa, R. Scatamacchia, "A new exact approach for the 0/1 Collapsing Knapsack Problem", *European Journal of Operational Research*, 260, 2017, 56-69.
6. F. Della Croce, M. Garraffa, F. Salassa, C. Borean, G. Di Bella, E. Grasso, "Heuristic approaches for a domestic Energy Management System", *Computers and Industrial Engineering*, 109, 2017, 169-178.
7. F. Della Croce, C. Koulamas, V. T'Kindt, "A constraint generation approach for two-machine shop problems with jobs selection", *European Journal of Operational Research*, 259, 2017, 898-905.
8. F. Della Croce, C. Koulamas, V. T'Kindt, "Minimizing the number of tardy jobs in two-machine settings with common due date", *Journal of Combinatorial Optimization*, 34, 2017, 133-140.
9. F. Della Croce, M. Garraffa, F. Salassa, "An exact Semidefinite Programming approach for the Max-Mean Dispersion Problem", *Journal of Combinatorial Optimization*, 34, 2017, 71-93.
10. F. Della Croce, F. Salassa, R. Scatamacchia, "An exact approach for the 0-1 Knapsack Problem with Setups", *Computers and Operations Research*, 80, 2017, 61-67.
11. F. Della Croce, M. Garraffa, F. Salassa, "A hybrid three-phase approach for the Max-Mean Dispersion Problem", *Computers and Operations Research*, 71, 2016, 16-22.
12. F. Della Croce, "MP or not MP: that is the question", *Journal of Scheduling*, 19, 2016, 33-42.
13. F. Della Croce, "MP or not MP: that is the question", *Journal of Scheduling*, 19, 2016, 33-42.
14. J.C. Billaut, F. Della Croce, A. Grosso "A single machine scheduling problem with two-dimensional vector packing constraints", *European Journal of Operational Research*, 243, 2015, 75-81.
15. Boria, F. Della Croce, V.T. Paschos, "On the Max Min Vertex Cover problem", *Discrete Applied Mathematics*, 196, 2015, 62-71.
16. J.J. Kanet, F. Della Croce, C. Koulamas, V. T'kindt, "Erratum: One Machine Sequencing to Minimize Total Tardiness: A Fourth Theorem for Emmons", *Operations Research*, 63, 2015, 351-352.
17. F. Della Croce, V. Th. Paschos "Efficient algorithms for the max k-vertex cover problem", *Journal of Combinatorial Optimization*, 28, 2014, 674-691.
18. N. Boria, F. Della Croce, "Reoptimization in machine scheduling", *Theoretical Computer Science*, 540, 2014, 13-26.
19. W. Vancroonenburg, F. Della Croce, D. Goossens, F.C.R. Spieksma, "The Red-Blue Transportation Problem", *European Journal of Operational Research*, 237, 2014, 814-823.
20. F. Della Croce, F. Salassa, "A Variable Neighborhood Search based Matheuristic for Nurse Rostering Problems", *Annals of Operations Research*, 218, 2014, 185-199.
21. F. Della Croce, A. Grosso, F. Salassa, "A matheuristic approach for the two-machine total completion time flow shop problem", *Annals of Operations Research*, 213, 2014, 67-78.
22. F. Della Croce, M. Garraffa, "The Selective Fixing Algorithm for the Closest String problem", *Computers and Operations Research*, 41, 2014, 24-30.
23. F. Della Croce, F. Salassa, V. T'Kindt, "A hybrid heuristic approach for single machine scheduling with release times", *Computers and Operations Research*, 45, 2014, 7-11.
24. N. Bourgeois, F. Della Croce, B. Escoffier, V. Th. Paschos, "Fast algorithms for min independent dominating set", *Discrete Applied Mathematics*, 161, 2013, 558-572.

25. F. Bosia, F. Della Croce, N.M. Pugno, "Systematic numerical investigation of the role of hierarchy in heterogeneous bio-inspired materials", *Journal of the Mechanical Behavior of Biomedical Materials*, 19, 2013, 34-42.
26. N. Bourgeois, F. Della Croce, B. Escoffier, V. Th. Paschos, "Exact algorithms for dominating clique problems", *Theoretical Computer Science*, 459, 2012, 77-88.
27. F. Della Croce, C. Koulamas, "A note on minimizing the sum of quadratic completion times on two identical parallel machines", *Information Processing Letters*, 112, 2012, 738-742.
28. F. Della Croce, V. T'kindt, "A note on <Two-Machine flow-shop scheduling with rejection> and its link with flow-shop scheduling and common due date assignment", *Computers and Operations Research*, 39, 2012, 3244-3246.
29. F. Della Croce, D. Quadri, "Improving an exact approach for solving separable integer quadratic knapsack problems", *Journal of Combinatorial Optimization*, 23, 2012, 21-28.
30. F. Della Croce, A. Grosso, T. Garaix, "Iterated local search and very large neighborhoods for the parallel-machines total tardiness problem", *Computers and Operations Research*, 39, 2012, 1213-1217.
31. F. Della Croce, F. Salassa, "Improved LP-based algorithms for the Closest String Problem", *Computers and Operations Research* 39, 2012, 746-749.
32. F. Della Croce, A. Grosso, "Improved core problem based heuristics for the 0/1 multi-dimensional knapsack problem", *Computers and Operations Research* 39, 2012, 27-31.
33. R. Bollapragada, F. Della Croce, M. Ghirardi, "Discrete-Time, Economic Lot Scheduling Problem on Multiple, Non-Identical Production Lines", *European Journal of Operational Research* 215, 2011, 89-96.
34. F. Della Croce, E. Desmier, T. Garaix, "A note on <Beam Search heuristics for the single machine early/tardy scheduling problem with no machine idle time>", *Computers and Industrial Engineering* 60, 2011, 183-186.
35. F. Della Croce, A. Grosso, "Computational experience with a core-based reduction procedure for the 2-knapsack problem", *Computers and Operations Research* 38, 2011, 514-516.
36. F. Della Croce, V. T'kindt, "Improving the preemptive bound for the single machine dynamic maximum lateness problem", *Operations Research Letters*, 38, 2010, 589-591.
37. F. Della Croce, V. Th. Paschos, R. Wolfler Calvo, "Approximating the metric 2-Peripatetic Salesman Problem", *Algorithmic Operations Research* 5, 2010, 13-20.
38. Ph. Baptiste, F. Della Croce, A. Grosso, V. T'kindt, "Sequencing a single machine with due dates and deadlines: an ILP-based approach to solve very large instances.", *Journal of Scheduling* 13, 2010, 39-47.
39. F. Della Croce, A. Grosso, M. Locatelli, "A heuristic approach for the Max-Min Diversity Problem based on Max Clique", *Computers and Operations Research*, 36, 2009, 2429-2433.
40. A. E. Baburin, F. Della Croce, E. K. Gimadi, Y. V. Glazkov, V. Th. Paschos, "Approximation algorithms for the 2-Peripatetic Salesman Problem with edge weights 1 and 2", *Discrete Applied Mathematics*, 157, 2009, 1988-1992.
41. N. Bourgeois, F. Della Croce, B. Escoffier, C. Murat, V. Th. Paschos, "Probabilistic graph-coloring in bipartite and split graphs", *Journal of Combinatorial Optimization*, 17, 2009, 274-311.
42. M.A. Aloulou, F. Della Croce, "On the complexity of single machine scheduling problems under scenario-based uncertainty", *Operations Research Letters*, 36, 2008, 338-342.
43. F. Della Croce, M.J. Kaminski, V. Th. Paschos, "An exact algorithm for MAX-CUT in sparse graphs", *Operations Research Letters*, 35, 2007, 403-408.
44. F. Della Croce, B. Escoffier, V. Th. Paschos, "Improved worst-case complexity for the MIN 3-SET COVERING problem", *Operations Research Letters*, 35, 2007, 205-210.
45. V. T'kindt, F. Della Croce, J.L. Bouquard, "Enumeration of Pareto optima for a flowshop scheduling problem with two criteria", *INFORMS Journal on Computing*, 19, 2007, 64-72.

46. G. Carello, F. Della Croce, A. Grosso, M. Locatelli, "A "Maximum Node Clustering" problem", *Journal of Combinatorial Optimization*, 11, 2006, 373-385.
47. F. Della Croce, D. Oliveri, "Scheduling the Italian Football League: an ILP-based approach", *Computers and Operations Research* 33, 2006, 1963-1974.
48. V. T'kindt, F. Della Croce, C. Esswein, "Revisiting branch and bound search strategies for machine scheduling problems", *Journal of Scheduling* 7, 2004, 429-440.
49. A. Grosso, M. Locatelli, F. Della Croce, "Combining swaps and nodes weighting in an adaptive greedy approach for the maximum clique problem", *Journal of Heuristics* 10, 2004, 135-152.
50. F. Della Croce, M. Ghirardi, R. Tadei, "Recovering Beam Search: enhancing the beam search approach for combinatorial optimization problems", *Journal of Heuristics* 10, 2004, 89-104.
51. G. Carello, F. Della Croce, M. Ghirardi, R. Tadei, "Solving the hub location problem in telecommunication network design: a local search approach", *Networks* 44, 2004, 94-105.
52. L. De Giovanni, F. Della Croce, R. Tadei, "On the impact of the solution representation for the Internet Protocol network design problem with max-hop constraints", *Networks* 44, 2004, 73-83.
53. F. Della Croce, A. Grosso, V.T. Paschos, "Lower bounds on the approximation ratios of leading heuristics for the single machine total tardiness problem", *Journal of Scheduling* 7, 2004, 85-91.
54. A. Grosso, F. Della Croce, R. Tadei, "An enhanced dynasearch neighborhood for the single-machine total weighted tardiness scheduling problem", *Operations Research Letters*, 32, 2004, 68-72.
55. F. Bellanti, G. Carello, F. Della Croce, R. Tadei, "A greedy-based neighborhood search approach to a nurse rostering problem", *European Journal of Operational Research* 153, 2004, 28-40.
56. F. Della Croce, V. T'Kindt, "Improving the preemptive bound for the one-machine dynamic total completion time scheduling problem", *Operations Research Letters*, 31, 2003, 142-148.
57. F. Della Croce, V. T'Kindt, "A Recovering Beam Search algorithm for the one-machine dynamic total completion time scheduling problem", *Journal of the Operational Research Society* 53, 2002, 1275-1280.
58. R. Tadei, A. Grosso, F. Della Croce, "Finding the Pareto optima for the total and maximum tardiness single machine scheduling problem", *Discrete Applied Mathematics*, 124, 2002, 117-126.
59. R. Tadei, G. Perboli, F. Della Croce, "A heuristic algorithm for the Auto-Carrier transportation problem", *Transportation Science*, 36, 2002, 55-62.
60. F. Della Croce, M. Ghirardi, R. Tadei, "An improved branch-and-bound algorithm for the two machine total completion time flow shop problem", *European Journal of Operational Research*, 139, 2002, 293-301.
61. F. Della Croce, M. Trubian, "Optimal idle time insertion in early-tardy parallel machines scheduling with precedence constraints", *Production Planning and Control*, 13, 2002, 133-142.
62. W. Szwarc, A. Grosso, F. Della Croce, "Algorithmic paradoxes of the Single Machine Total Tardiness Problem", *Journal of Scheduling*, 4, 2001, 93-104.
63. F. Della Croce, J.N.D. Gupta, R. Tadei, "Minimizing tardy jobs in a flowshop with common due date", *European Journal of Operational Research*, 120, 2000, 375-381.
64. F. Della Croce, R. Tadei, P. Ascoli, "Scheduling a round-robin tennis tournament under courts and players availability constraints", *Annals of Operations Research*, 92, 1999, 349-361.

65. F. Della Croce , V.T. Paschos, A. Tsoukiàs, "An improved general procedure for lexicographic bottleneck problems" - *Operations Research Letters*, 24, 1999, 187-194.
66. W. Szwarc, F. Della Croce, A. Grosso, "Solution of the Single Machine Total Tardiness Problem", *Journal of Scheduling*, 2, 1999, 55-71.
67. F. Della Croce, R. Tadei, P. Baracco, A. Grosso, "A new decomposition approach for the single machine total tardiness problem", *Journal of the Operational Research Society*, 49, 1998, 1101-1106.
68. R. Tadei, J.N.D. Gupta, F. Della Croce, M. Cortesi, "Minimizing makespan in the two-machine flow shop with release times", *Journal of the Operational Research Society*, 49, 1998, 77-85.
69. F. Della Croce, V. Narayan, R. Tadei, "The two-machine total completion time flow shop problem", *European Journal of Operational Research*, 90, 1996, 227-237.
70. F. Della Croce, W. Szwarc, R. Tadei, P. Baracco, R. Di Tullio, "Minimizing the weighted sum of quadratic completion times on a single machine", *Naval Research Logistics*, 42, 1995, 1263-1270.
71. R. Tadei, M. Trubian, J.L. Avendano, F. Della Croce, G. Menga, "Aggregate planning and scheduling in food industry: a case study", *European Journal of Operational Research*, 87, 1995, 564-573.
72. F. Della Croce - "Generalized Pairwise Interchanges and Machine Scheduling", *European Journal of Operational Research*, 83, 1995, 310-319.
73. M.H. Bjrndal, A. Caprara, P.I. Cowling, F. Della Croce, H. Lourenço, F. Malucelli, A.J. Orman, D. Pisinger, C. Rego, J.J. Salazar - "Some thoughts on combinatorial optimization", *European Journal of Operational Research*, 83, 1995, 253-270.
74. F. Della Croce, R. Tadei, G. Volta, "A genetic algorithm for the job shop problem", *Computers and Operations Research*, 22, 1995, 15-24.
75. F. Della Croce, R. Tadei, "A multi-KP modeling for the maximum clique problem", *European Journal of Operational Research*, 73, 1994, 555-561.
76. R. Tadei, F. Della Croce, "A note on minimizing a quadratic function of job lateness on a single machine", *International Journal of Production Economics*, 32, 1993, 185-187.
77. F. Della Croce, G. Menga, R. Tadei, M. Cavalotto, L. Petri, "Cellular control of manufacturing systems", *European Journal of Operational Research*, 69, 1993, 498-509.

#### **Papers published on national journals**

78. F. Della Croce, V. Th. Paschos, "Exploiting dominance conditions for computing non trivial worst-case complexity for bounded combinatorial optimization problems", *Operational Research*, 8, 2008, 235-256.
79. R. Tadei, F. Della Croce, C. Alfieri, P. Baracco, F. Rizzante, M. Sbodio, "A genetic algorithm for the crew rostering problem", *Ricerca Operativa*, 76, 1995, 37-48.
80. R. Tadei, F. Della Croce, G. Menga, "Advanced search techniques for the job shop problem: a comparison", *RAIRO*, 29, 1995, 179-194.
81. F. Della Croce, R. Rolando, R. Tadei, "Solving a real world scheduling problem with a genetic approach", *JORBEL*, 33, 1993, 65-78.

#### **Papers published on chapters in international books**

82. F. Della Croce, A. Grosso, F. Salassa, "Matheuristics: embedding MILP solvers into heuristic algorithms for combinatorial optimization problems", In: *Heuristics: Theory and Applications*, P. Siarry (ed.), Nova Publishers, 2013, 31-52, ISBN 9781624176647.

83. F. Della Croce, F. Salassa, "Personnel Rostering Management by ICT Techniques", In: Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care., IGI Global, 2013, 855-871, ISBN13: 9781466639904.
84. F. Della Croce, "Mixed Integer Linear Programming Models for Combinatorial Optimization Problems", In: *Concepts of Combinatorial Optimization*, WILEY (GBR), 2010, 103-133, ISBN: 9781848211476.
85. F. Della Croce, A. Grosso "Simplex Algorithms for Linear Programming", In: *Concepts of Combinatorial Optimization*, WILEY (GBR), 2010, 135-155, ISBN: 9781848211476.
86. F. Della Croce, B. Escoffier, M. Kaminski, V. Th. Paschos, Worst-case Complexity of Exact Algorithms for NP-hard Problems, In: *Combinatorial Optimization and Theoretical Computer Science*, WILEY (GBR), 2008, 203-240, ISBN: 9781848210219.
87. F. Della Croce, "Modélisation de problèmes d'optimisation combinatoire à l'aide de la programmation linéaire mixte entière", in V.T. Paschos (eds.) *Optimisation combinatoire I: concepts fondamentaux* (in francese), Hermes, Paris, 2005, 127-157.
88. L. Colaneri, F. Della Croce, G. Perboli, R. Tadei, "A heuristic procedure for Rack Configuration in the Space Vehicle Accommodation problem", in T.A. Ciriani, G. Fasano, S. Gliozzi, R. Tadei (eds.) *Operations Research in Space and Air*, Kluwer, London, 2003.
89. R. Tadei, F. Della Croce, S. Pucci, "A scheduling prototype for the factory automation: matching OR methodologies to the actual industrial needs" in T.A. Ciriani, E. L. Johnson, S. Gliozzi, R. Tadei (eds.) *Operations Research in industry*, Mcmillan, London, 1999, 183-198.

#### **Papers published on international Conferences Proceedings**

90. F. Della Croce, U. Pferschy, R. Scatamacchia, "Approximation results for the incremental knapsack problem", Proceedings of IWOCA2017 International Conference, Newcastle, Australia, LNCS 10765, 75-87, 2018.
91. F. Della Croce, M. Garraffa, F. Salassa, "A hybrid heuristic approach based on a quadratic knapsack formulation for the max-mean dispersion problem", Proceedings of ISCO 2014 International Conference, Lisbon, Portugal, LNCS 8596, 186-197, 2014.
92. F. Della Croce, C. Koulamas, V. T'Kindt, "A constraint generation approach for the two-machine flow shop problem with jobs selection", Proceedings of ISCO 2014 International Conference, Lisbon, Portugal, LNCS 8596, 196-207, 2014.
93. F. Della Croce, V.T. Paschos, "On the Max Min Vertex Cover problem", Proceedings of WAOA 2013 International Conference, Sophia Antipolis, France, LNCS 8447, 37-48, 2014.
94. F. Della Croce "LP or not LP, that is the question", Proceedings of MISTA 2013 International Conference, Ghent, Belgium, 849-865, 2013.
95. F. Della Croce, V. Th. Paschos "Efficient algorithms for the max k-vertex cover problem", Proceedings of TCS 2012, 7<sup>th</sup> IFIP TC1/WG2.2 International Conference, Amsterdam, LNCS 7604, 295-309, 2012.
96. F. Della Croce, C. Koulamas, "Minimizing the sum of quadratic completion times on two identical parallel machines", Proceedings of MISTA 2011 International Conference, Phoenix, Arizona, U.S.A, 240-244, 2011.
97. F. Della Croce, A. Grosso, F. Salassa, "A matheuristic approach for the total completion time two-machine permutation flow shop problem", Proceedings of EVOCOP 2011 International Conference, Torino, LNCS 6622, 38-47, 2011.
98. F. Della Croce, F. Salassa, "A Variable Neighborhood Search based Matheuristic for Nurse Rostering Problems", Proceedings of PATAT 2010, 8th International Conference on the Practice and Theory of Automated Timetabling, Belfast (UK), 2010, 167-175.



99. N. Bourgeois, F. Della Croce, B. Escoffier, V. Th. Paschos, "Exact algorithms for dominating clique problems", *Proceedings of ISAAC 2009 International Conference*, Honolulu, LNCS 5878 Springer, 2009, 4-13.
100. F. Della Croce, V. Th. Paschos, "Computing optimal solutions for the MIN 3-SET COVERING problem", *Proceedings of ISAAC 2005 International Conference*, Hainan, LNCS 3827 Springer, 2005, 685-692.
101. F. Della Croce, B. Escoffier, C. Murat, V. Th. Paschos, "Probabilistic Coloring of Bipartite and Split Graphs", *Proceedings of ICCSA 2005 International Conference*, Singapore, LNCS 3483 Springer, 2005, 202-211.
102. F. Della Croce, M. Ghirardi, R. Tadei, "Recovering Beam Search: enhancing the beam search approach for combinatorial optimisation problems", *Proceedings of PLANSIG 2002 "21th workshop of the UK Planning and Scheduling Special Interest Group"* Delft, The Netherlands, 2002, 149-169.
103. F. Della Croce, A. Tsoukiàs, P. Moraitis, "Why is difficult to make decisions under multiple criteria", *Proceedings of AIPS-02 "International Workshop on Planning and Scheduling with Multiple Criteria"*, Toulouse, France, 2002, 41-45.
104. V. Cerone, F. Della Croce, "A continuous knapsack problem formulation for the robustness analysis of a polytope of polynomials", *Proceedings of the 1995 American Control Conference*, Seattle, U.S.A., 1995, 3856-3858.
105. G. Menga, R. Tadei, M. Trubian, G. Volta, F. Della Croce, "Production scheduling for perishable goods: a case study", *Proceedings of the IEEE International Conference on Robotics and Automation*, San Diego (CA) U.S.A., 1994, 507-512.
106. F. Della Croce, R. Tadei, P. Baracco, R. Di Tullio, "On minimizing the weighted sum of quadratic completion times on a single machine", *Proceedings of the IEEE International Conference on Robotics and Automation*, Atlanta (GA) U.S.A., 1993, 816-820.
107. F. Della Croce, G. Menga, R. Tadei, M. Cavalotto, L. Petri, "Cellular control of flexible manufacturing systems" *Proceedings of the IEEE International Conference on Robotics and Automation*, Nice, France, 1992, 937-948.

#### **Special issues handled as guest editor**

108. F. Della Croce (Guest Editor.) *Ricerca Operativa* (Spring-Summer 1998), vol. 85-86 Special issue.

#### **Teaching and divulgative contributions**

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