

# Curriculum Vitae

## RIZZI ROMEO

(September 2017)

### Personal Data

NATIONALITY: Italian

DATE OF BIRTH: 20 April 1967

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### Research Interests

Combinatorial Optimization. Algorithms. Computational Biology. Computational Complexity. Operations Research. Approximation Algorithms. Distributed Algorithms. Graphs. Matroids. Edge Colorings. Graph Factorization. Matching Theory and Problems. Packing and Covering Problems. Shortest Paths Problems. Minimum Cuts.

### Education

#### Phd in Computational Mathematics and Informatics

*Department of Mathematics, Padova University. September 30, 1997.*

#### Phd Thesis

SUPERVISOR: Prof. Michele Conforti (Department of Mathematics, Padova University).

EXTERNAL EXAMINER: Prof. Bert Gerards (CWI Research Institute, Amsterdam).

TITLE: Packing  $T$ -cuts and  $T$ -joins.

INTEREST AREAS: Operations Research, Graph theory, Combinatorics.

#### B.Sc. Degree in Electronics Engineering

*Politecnico di Milano. 100/100 cum laude. December 20, 1991.*

#### B.Sc. Thesis

SUPERVISOR: Prof. Francesco Maffioli (Electronics Department, Politecnico di Milano),

TITLE: The  $k$ -MST Problem.

INTEREST AREAS: Operations Research, Combinatorial Optimization.

### Present employment

#### Associate Professor by the University of Verona

december 2011 – today. Sector: Operations Research.

**in charge by the department:** Presidente di Commissione Paritetica, Membro della Commissione di valutazione assegni di tutorato per corsi di Informatica e Bioinformatica, Referente di Dipartimento per le Olimpiadi dell'informatica, Referente del Dipartimento verso il coderDojo in Verona, Membro del Collegio dei Docenti del Dottorato Interateneo in Matematica, Membro del Collegio Didattico di Informatica, Membro del Collegio Didattico di Matematica, Membro del Consiglio di Corso di Tirocinio Formativo Attivo - TFA classe A042- Informatica, Membro del Consiglio del Dipartimento di Informatica.

**courses for the department:** in Verona, I held the courses "Ricerca Operativa" for the bachelor degree in Applied Mathematics L35 (2011-12, 12-13, 13-14, 14-15, 15-16, 16-17) and "Algoritmi Avanzati" for the master degree in Engineering and Informatics LM18+LM32 (2011-12, 12-13, 13-14, 14-15, 15-16, 16-17). I activated and conducted the course "Programming Challenges" (2013-14, 14-15, 15-16, 16-17). I coordinated and held minicourses for the seminar course "Math Decisions" (2014-15, 15-16, 16-17) for the master degree in Mathematics LM40. I held classes for highschool teachers in TFA (2012-13, 2014-15) and PAS (2013-14, 2014-15). I have experimented tandem courses (an offert from the University of Verona to high-school students) in algorithms.

**further didactical activities:** Since 2001 I am also active as a trainer and tutor for the Olympiads in Informatics. In this sector, I have a long and intensive record of activities which range from classes in high-schools (since 2001) to training and coaching the italian team (since 2004).

## Work Experience

### Associate Professor by the University of Udine

**october 2005 – december 2011.** Sector: Operations Research. (**classes**) in Udine, for the faculty of architectur, I held the classes "Ricerca Operativa" (2006-07, 07-08, 08-09, 09-10), "Matematica II" (2005-06, 06-07, 07-08, 08-09), and "Matematica" (2010-11, 2011-2012), for the faculty of engineering I held the classes "Ricerca Operativa" (2005-06, 06-07, 07-08, 08-09, 09-10, 10-11, 11-12). At the PhD school I taught "Computational Complexity".

### Assistant Research Professor by the Faculty of Science at the University of Trento - Italy.

**march 2001 – october 2005:** I taught "Laboratorio di Algoritmi e Strutture Dati", "Algoritmi e Strutture Dati", "Complessità Computazionale", at the master degree, and at the PhD school "Linear Programming", "Computational Molecular Biology".

### Researcher at I.R.S.T.

**August 2000 – February 2001:** part of the group CBR (Case Based Reasoning, chief: Paolo Avesani) of the SRA division (Automated Reasoning Systems, chief: Paolo Traverso) in IRST. IRST (Istituto Ricerca Scientifica e Tecnologica) is part of ITC (Istituto Trentino Cultura) and is located in Trento - Italy.

### Post-docs and other temporary positions

**August 99 – October 99:** Assistant Research Professor at BRICS of the University of Aarhus (Denmark).

**April 2000 – June 2000, November 99 – December 99, April 99 – June 99, November 98 – December 98:** I held, for 10 months in total, a research position on DONET funds at the Research Institute CWI in Amsterdam. I was part of the PNA group (Probability, Networks, Algorithms), lead and supervised by Professors Alexander Schrijver and Bert Gerards.

**June 98 – June 99:** On a post-doc fellowship from the University of Padua spent at the Department of Mathematics of Padua University. Supervisor: prof. Michele Conforti.

### University teaching

**Second semester 97/98:** I taught the course “Programmazione Combinatoria” at the Department of Mathematics, Trento University.

### Activity as a programmer

**June 97 – April 98:** I worked as a programmer for the Department of Mathematics of the Trento University.

### Teaching assistant for short degree courses

**Second semester 96/97:** Teaching assistant for the class in “Analisi II” for the short degree course in Informatics and Automatics in Rovereto (Trento University).

### Doctoral fellowship

**November 93 – November 96:** I regularly received the fellowship fund meant for my Dottorato position and activities in the Department of Mathematics of the University of Padova under the supervision and scientific responsibility of Prof. Conforti.

### High school teaching (after my degrees)

I thought into regular state high schools during the following periods:

year	period	school	subject	notes
89-90	<b>whole year</b>	I.T.I.S. Hensenberger (Monza)	(elettrotecnica) (misure elettriche)	before my degrees (only evening classes)
92-93	from 21/9/92 to 17/10/92	I.T.I. Marconi (Rovereto)	(informatica industriale) (matematica applicata)	none
92-93	from 26/10/92 to 14/11/92	I.T.C. Martini (Mezzolombardo)	038A (fisica)	none
93-94	from 13/10/93 to 18/11/93	I.T.I.S. Buonarroto (Trento)	035A (elettrotecnica e applicazioni)	none
93-94	from 12/2/94 to 26/2/94	I.T.C. Martini (Mezzolombardo)	048A (matematica applicata)	none
95-96	from 22/9/95 to 6/11/95	I.T.I.S. Buonarroto (Trento)	035A (elettrotecnica e applicazioni)	1 day off for competitions
96-97	from 17/4/97 to 21/4/97	I.P.C. Don Milani (Rovereto)	042A (informatica)	none
97-98	<b>intero anno scolastico</b>	I.P.C. Battisti (Trento)	047A (matematica) (matematica ed informatica)	none
98-99	from 17/9/98 all' 1/10/98	I.T.C.G. Floriani (Riva)	048A (matematica applicata)	none
98-99	from 11/1/99 to 11/1/99	I.T.C.G. Fontana (Rovereto)	047A (matematica)	none
99-2000	from 15/1/00 to 31/3/00	I.T.I.S. Buonarroto (Trento)	047A (matematica)	none

## Military Service

**Performed:** Enlisted: November 16, 1992. Discharged: November 15, 1993.

## Study and Research abroad

**November 1995, October 1996:** Guest of Prof. András Sebö at the Laboratoire IMAG and Leibniz of the University of Grenoble, France.

**November-December 2000, January-February 2003:** Guest of Prof. Pavol Hell at the Department of Mathematics of the Simon Fraeser University (SFU) of Vancouver, Canada; of Prof. Gary MacGillivray by the Department of Mathematics of the University of Victoria (UV), Canada and of Prof. Rick Brewster by the Department of Computer Science of the University of Scherbrook (Montreal), Canada.

**August 2001:** Guest at BRICS (University of Aarhus, Denmark).

**November-December 2004:** Guest of Prof. Pablo Moscato by the Bioinformatics Center of the University of Newcastle, Australia. Visited also the Australian National University in Canberra.

**September-October 2005:** Guest of Prof. Stéphane Vialette by l'Université Paris-Sud (Orsay).

**December 2005:** Guest of Prof. Guillaume Fertin by l'Université Nantes.

**November 2009:** Invited Professor (“Professor Invitee”) by l'Université Paris-Est - Marne-la-Vallée Invited by Prof. Stéphane Vialette.

**February 2013:** Invited Professor (“Professor Invitee”) by l'Université Paris-Est - Marne-la-Vallée Invited by Prof. Stéphane Vialette.

**November 2015:** Invited Professor (“Professor Invitee”) by l'Université Paris-Est - Marne-la-Vallée Invited by Prof. Stéphane Vialette.

## Seminars

I have promoted the results of my research work giving seminars at the following institutions (not kept updated list): Laboratoire IMAG of the CNRS in Grenoble (1995). Laboratoire Leibniz of the University of Grenoble (1996, 2003). Istituto IASI del C.N.R. in Roma (1997, 1999), DEIS dell'Università di Bologna (1997, 1999, 2001), DSI dell'Università di Bologna (2008), Istituto di Ricerca CWI in Amsterdam (1998), DEIS del Politecnico di Milano (2000, 2003), Dip. Matematica ed Informatica Università di Udine (2006), Dipartimento di Informatica della Bicocca di Milano (2003, 2006, 2008), Dip. Informatica Università di Verona (2008), DSMI dell'Università di Reggio Emilia (2000), Istituto IRST dell'ITC di Trento (2000, 2001), Math. Dept. della Simon Freaser University di Vancouver (2000, 2003), Math. Dept. della University of Victoria (2003), Dipartimento di Elettronica del Politecnico di Torino (2003), Engineering Dept. dell'Università di New Castle (2004).

## Publications on International Scientific Journals

91. CARLO COMIN, ROMEO RIZZI, Improved Pseudo-polynomial Bound for the Value Problem and Optimal Strategy Synthesis in Mean Payoff Games, *Algorithmica*, 77(4) (2017) 995–1021.
90. ALBERTO CAPRARA, MAURO DELL’AMICO, JOSÉ CARLOS DÍAZ, MANUEL IORI, ROMEO RIZZI, Friendly bin packing instances without Integer Round-up Property, *Math. Program.*, 150(1) (2015) 5–17.
89. CARLO COMIN, ROBERTO POSENATO, ROMEO RIZZI, Hyper temporal networks - A tractable generalization of simple temporal networks and its relation to mean payoff games, *Constraints*, 22(2) (2017) 152–190.
88. FRANCA RINALDI, ROMEO RIZZI, Solving the train marshalling problem by inclusion-exclusion, *Discrete Applied Mathematics*, 217 (2017) 685–690.
87. LILIANA ALCN, MARISA GUTIERREZ, ISTVN KOVCS, MARTIN MILANIC, ROMEO RIZZI, Strong cliques and equistability of EPT graphs, *Discrete Applied Mathematics*, 203 (2016) 13–25.
86. BOTH EMERITE NEOU, ROMEO RIZZI, STPHANE VIALETTE, Permutation Pattern matching in (213, 231)-avoiding permutations, *Discrete Mathematics & Theoretical Computer Science*, 18(2) (2016)
85. DAVID CARIOLARO, ROMEO RIZZI, On the Complexity of Computing the Excessive  $[B]$ -Index of a Graph, *Journal of Graph Theory*, 82(1) (2016) 65–74.
84. STEFANO BENATI, ROMEO RIZZI, CRAIG A. TOVEY, The complexity of power indexes with graph restricted coalitions, *Mathematical Social Sciences*, 76 (2015) 53–63.
83. ROMEO RIZZI, FLORIAN SIKORA, Some Results on More Flexible Versions of Graph Motif, *Theory Comput. Syst.*, 56(4) (2015) 612–629.
82. ALEXANDRU I. TOMESCU, TRAVIS GAGIE, ALEXANDRU POPA, ROMEO RIZZI, ANNA KUOSMANEN, VELI MKINEN, Explaining a Weighted DAG with Few Paths for Solving Genome-Guided Multi-Assembly, *IEEE/ACM Trans. Comput. Biology Bioinform.*, 12(6) (2015) 1345–1354.
81. FERDINANDO CICALESE, MARTIN MILANIC, ROMEO RIZZI, On the complexity of the vector connectivity problem, *Theor. Comput. Sci.*, 591 (2015) 60–71.
80. ALBERTO CAPRARA, MAURO DELL’AMICO, JOSÉ CARLOS DÍAZ, MANUEL IORI, ROMEO RIZZI, Friendly bin packing instances without Integer Round-up Property, *Math. Program.*, 150(1) (2015) 5–17.
79. LAURENT BULTEAU, GUILLAUME FERTIN, ROMEO RIZZI, STÉPHANE VIALETTE, Some algorithmic results for  $[2]$ -sumset covers, *Inf. Process. Lett.*, 115(1) (2015) 1–5.
78. ROMEO RIZZI, DAVID CARIOLARO, Polynomial Time Complexity of Edge Colouring Graphs with Bounded Colour Classes, *Algorithmica*, 69(3) (2014) 494–500.
77. ROMEO RIZZI, ALEXANDRU I. TOMESCU, VELI MÄKINEN, On the complexity of Minimum Path Cover with Subpath Constraints for multi-assembly, *BMC Bioinformatics*, 15(S-9) (2014) S5.
76. BOSTJAN BRESAR, TANJA GOLOGRANC, MARTIN MILANIC, DOUGLAS F. RALL, ROMEO RIZZI, Dominating sequences in graphs, *Discrete Mathematics*, 336 (2014) 22–36.
75. MARIEN ABREU, DOMENICO LABBATE, ROMEO RIZZI, JOHN SHEEHAN, Odd 2-factored snarks, *Eur. J. Comb.*, 36 (2014) 460–472.

74. GUILLAUME BLIN, PAOLA BONIZZONI, RICCARDO DONDI, ROMEO RIZZI, FLORIAN SIKORA, Complexity insights of the Minimum Duplication problem, *Theor. Comput. Sci.*, 530 (2014) 66–79.
73. MARTIN MILANIC, ROMEO RIZZI, ALEXANDRU I. TOMESCU, Set graphs. II. Complexity of set graph recognition and similar problems, *Theor. Comput. Sci.*, 547 (2014) 70–81.
72. ALEXANDRU I. TOMESCU, ANNA KUOSMANEN, ROMEO RIZZI, VELI MÄKINEN, A novel min-cost flow method for estimating transcript expression with RNA-Seq, *BMC Bioinformatics*, 14(S-5) (2013) S15.
71. GUILLAUME BLIN, ROMEO RIZZI, FLORIAN SIKORA, STÉPHANE VIALETTE, Minimum Mosaic Inference of a Set of Recombinants, *Int. J. Found. Comput. Sci.*, 24(1) (2013) 51–66.
70. ROMEO RIZZI, ALEXANDRU I. TOMESCU, Ranking, unranking and random generation of extensional acyclic digraphs, *Inf. Process. Lett.*, 113(5–6) (2013) 183–187.
69. GUILLAUME BLIN, ROMEO RIZZI, STÉPHANE VIALETTE, A Faster Algorithm for Finding Minimum Tucker Submatrices, *Theory Comput. Syst.*, 51(3) (2012) 270–281.
68. ROMEO RIZZI, LUCA NARDIN, Polynomial Time Instances for the IKHO Problem, *ISRN Electronics*, 2012, 10 pages (2012).
67. GIULIA GALBIATI, ROMEO RIZZI, EDOARDO AMALDI, On the approximability of the minimum strictly fundamental cycle basis problem, *Discrete Applied Mathematics*, 159(4) (2011) 187–200.
66. Marcin Kubica, Romeo Rizzi, Stéphane Vialette, Tomasz Walen, Approximation of RNA multiple structural alignment, *J. Discrete Algorithms*, 9(4) (2011) 365–376.
65. PAOLA BONIZZONI, GIANLUCA DELLA VEDOVA, RICCARDO DONDI, YURI PIROLA, ROMEO RIZZI, Pure Parsimony Xor Haplotyping, *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 7(4) (2010) 598–609.
64. DAVID CARIOLARO, ROMEO RIZZI, Excessive factorizations of bipartite multigraphs, *Discrete Applied Mathematics*, 158 (2010) 1760–1766.
63. GAËLLE BREVIER, ROMEO RIZZI, STÉPHANE VIALETTE, Complexity issues in color-preserving graph embeddings, *Theor. Comput. Sci.*, 411(4-5) (2010) 716–729.
62. GUILLAUME FERTIN, DANNY HERMELIN, ROMEO RIZZI, STÉPHANE VIALETTE, Finding common structured patterns in linear graphs, *Theor. Comput. Sci.*, 411(26–28) (2010) 2475–2486.
61. ROMEO RIZZI, PRITHA MAHATA, LUKE MATHIESON, PABLO MOSCATO, Hierarchical Clustering Using the Arithmetic-Harmonic Cut: Complexity and Experiments, *PLoS ONE*, 5(12) (2010) .
60. ROMEO RIZZI, Minimum Weakly Fundamental Cycle Bases Are Hard To Find, *Algorithmica*, 53(3) (2009) 402–424.
59. TELIKEPALLI KAVITHA, CHRISTIAN LIEBCHEN, KURT MEHLHORN, DIMITRIOS MICHAIL, ROMEO RIZZI, TORSTEN UECKERDT, KATHARINA ANNA ZWEIG, Cycle bases in graphs characterization, algorithms, complexity, and applications, *Computer Science Review*, 3(4) (2009) 199–243.
58. ALAN A. BERTOSSI, CRISTINA M. PINOTTI, ROMEO RIZZI, Optimal receiver scheduling algorithms for a multicast problem, *Discrete Applied Mathematics*, 157(15) (2009) 3187–3197.
57. PETER BIRO, DAVID MANLOVE, ROMEO RIZZI, Maximum weight cycle packing in directed graphs, with application to kidney exchange programs, *Discrete Mathematics, Algorithms and Applications*, 1(4) (2009) 499–517.

56. GUILLAUME FERTIN, ROMEO RIZZI, STÉPHANE VIALETTE, Finding Occurrences of Protein Complexes in Protein-Protein Interaction Graphs, *Journal of Discrete Algorithms*, 7(1) (2009) 90-101.
55. EKKEHARD KÖHLER, CHRISTIAN LIEBCHEN, GREGOR WÜNSCH, ROMEO RIZZI, Lower bounds for strictly fundamental cycle bases in grid graphs. *Networks*, 53(2) (2009) 191-205.
54. STEFANO BENATI, ROMEO RIZZI, The optimal statistical median of a convex set of arrays, *Journal of Global Optimization*, 44(1) (2009) 79-97.
53. ROMEO RIZZI, Approximating the Maximum 3-Edge-Colorable Subgraph Problem, *Discrete Mathematics*, 309(12) (2009) 4164-4168.
52. RICHARD C. BREWSTER, PAVOL HELL, ROMEO RIZZI, Oriented star packings, *Journal of Combinatorial Theory, Series B* 98 (2008) 558-576.
51. GIUSEPPE LANCIA, R. RAVI, ROMEO RIZZI, Haplotyping for Disease Association: A Combinatorial Approach, *IEEE Transactions on Computational Biology and Bioinformatics* 5(2) (2008) 245-251.
50. DANNY HERMELIN, DROR RAWITZ, ROMEO RIZZI, STÉPHANE VIALETTE, The Minimum Substring Cover Problem, *Information and Computation*, 206(11) (2008) 1303-1312.
49. REUVEN COHEN, LIRAN KATZIR, ROMEO RIZZI, On the Trade-off Between Energy and Multicast Efficiency in 802.16e-like Mobile Networks, *IEEE Transactions on Mobile Computing* 7(3) (2008) 346-357.
48. GIUSEPPE LANCIA, FRANCA RINALDI, ROMEO RIZZI, Flipping letters to minimize the support of a string, *International Journal of Foundations of Computer Science*, 19(1) (2008) 5-17.
47. GUILLAUME BLIN, CEDRIC CHAUVE, GUILLAUME FERTIN, ROMEO RIZZI, STÉPHANE VIALETTE, Comparing Genomes with Duplications: A Computational Complexity Point of View. *IEEE/ACM Trans. Comput. Biology Bioinform.* 4(4) (2007) 523-534.
46. MICHAEL ELKIN, CHRISTIAN LIEBCHEN, ROMEO RIZZI, New length bounds for cycle bases, *Information Processing Letters* 104(5) (2007) 186-193.
45. FRANCESCO MAFFIOLI, ROMEO RIZZI, STEFANO BENATI, Least and most colored bases, *Discrete Applied Mathematics* 155(15) (2007) 1958-1970.
44. STEPHEN FINBOW, ANDREW KING, GARY MACGILLIVRAY, ROMEO RIZZI, The firefighter problem for graphs of maximum degree three, *Discrete Mathematics* 307(16) (2007) 2094-2105.
43. CHRISTIAN LIEBCHEN, ROMEO RIZZI, Classes of cycle bases, *Discrete Applied Mathematics* 155 (2007) 337-355.
42. STEFANO BENATI, ROMEO RIZZI, A mixed integer linear programming formulation of the optimal mean/Value-at-Risk portfolio problem, *European Journal of Operational Research* 176 (2007) 423-434.
41. ALESSANDRO MEI, ROMEO RIZZI, Online Permutation Routing in Partitioned Optical Passive Star Networks, *IEEE Trans. Computers* 55(12) (2006) 1557-1571.
40. ALESSANDRO MEI, ROMEO RIZZI, Hypercube Computations on Partitioned Optical Passive Stars Networks, *IEEE Trans. Parallel Distrib. Syst.* 17(6) (2006) 497-507.
39. ROMEO RIZZI, Acyclically Pushable Bipartite Permutation Digraphs: an algorithm, *Discrete Mathematics* 306(12) (2006) 1177-1188.
38. ROMEO RIZZI, MARCO ROSPOCHER, Covering partially directed graphs with directed paths, *Discrete Mathematics* 306(13) (2006) 1390-1404.

37. GIUSEPPE LANCIA, ROMEO RIZZI, A polynomial case of the parsimony haplotyping problem, *Oper. Res. Lett.* 34(3) (2006) 289–295.
36. GUILLAUME BLIN, GUILLAUME FERTIN, ROMEO RIZZI, STÉPHANE VIALETTE, What Makes the Arc-Preserving Subsequence Problem Hard? *Transactions on Computational Systems Biology II LNCS* vol. 3680 (2005) 1–36.
35. VINEET BAFNA, SORIN ISTRAIL, GIUSEPPE LANCIA, ROMEO RIZZI, Polynomial and APX-hard cases of the Individual Haplotyping Problem, *Theoretical Computer Science* 335(1) (2005) 109–125.
34. ZHI-ZHONG CHEN, TAO JIANG, GUOHUI LIN, ROMEO RIZZI, JIANJUN WEN, DONG XU, YING XU, More Reliable Protein NMR Peak Assignment via Improved 2-Interval Scheduling, *Journal of Computational Biology* 12(2) 2005 129–146.
33. CHRISTIAN LIEBCHEN, ROMEO RIZZI, A greedy approach to compute a minimum cycle basis of a directed graph, *Information Processing Letters* 94(3) (2005) 107–112.
32. MAURO CETTOLO, MICHELE VESCOVI, ROMEO RIZZI, Evaluation of BIC-based algorithms for audio segmentation, *Computer Speech & Language* 19(2) (2005) 147–170.
31. ELIA ARDIZZONI, ALAN A. BERTOSSI, MARIA CRISTINA PINOTTI, SHASHANK RAMAPRASAD, ROMEO RIZZI, MADHUSUDANA V.S. SHASHANKA, Optimal Skewed Data Allocation on Multiple Channels with Flat Broadcast per Channel, *IEEE Transactions on Computers* 54(5) (2005) 558–572.
30. A.A. BERTOSSI, M.C. PINOTTI, R. RIZZI, P. GUPTA, Allocating Servers in Infostations for Bounded Simultaneous Requests, *Journal of Parallel and Distributed Computing* 64 (2004) 1113–1126.
29. ALAN A. BERTOSSI, CRISTINA M. PINOTTI, ROMEO RIZZI, ANIL M. SHENDE, Channel Assignment for Interference Avoidance in Honeycomb Wireless Networks, *Journal of Parallel and Distributed Computing* 64 (2004) 1329–1344.
28. ALBERTO CAPRARA, ANDREA LODI, ROMEO RIZZI, On  $d$ -Threshold Graphs and  $d$ -Dimensional Bin Packing, *Networks* 44(4) (2004) 266–280.
27. ALBERTO CAPRARA, ALESSANDRO PANCONESI, ROMEO RIZZI, Packing Cuts in Graphs, *Networks* 44(1) (2004) 1–11.
26. GIUSEPPE LANCIA, MARIA CRISTINA PINOTTI, ROMEO RIZZI, Haplotyping Populations by Pure Parsimony: Complexity, Exact, and Approximation Algorithms, *INFORMS J. on Comp.* 16(4) (2004) 348–359.
25. MICHELE CONFORTI, ROMEO RIZZI, Combinatorial Optimization - Polyhedra and efficiency: A book review, *JOR* 2(2) (2004) 153–159.
24. ALBERTO CAPRARA, ALESSANDRO PANCONESI, ROMEO RIZZI, Packing Cycles in Undirected Graphs, *Journal of Algorithms* 48(1) (2003) 239–256.
23. ROMEO RIZZI, On Rajagopalan and Vazirani’s  $\frac{3}{2}$ -Approximation Bound for the Iterated 1-Steiner Heuristic, *Information Processing Letters* 86(6) (2003) 335–338.
22. ALESSANDRO MEI, ROMEO RIZZI, Routing Permutations in Partitioned Optical Passive Stars Networks, *Journal of Parallel and Distributed Computing* 63(9) (2003) 847–852.  
- also accepted at IPDPS 2002 where it received the **Best Paper Award**.
21. RICHARD C. BREWSTER, ROMEO RIZZI, On the complexity of digraph packings, *Information Processing Letters* 86(2) (2003) 101–106.



20. ROMEO RIZZI, A Simple Minimum  $T$ -Cut Algorithm, *Discrete Applied Mathematics* 129 (2003) 539–544.
19. RICHARD C. BREWSTER, PAVOL HELL, SARAH H. PANTEL, ROMEO RIZZI, ANDERS YEO, Packing paths in digraphs, *Journal of Graph Theory* 44(2) (2003) 81–94.
18. ROMEO RIZZI, Cycle cover property and  $CPP = SCC$  property are not equivalent, *Discrete Mathematics* 259 (2002) 337–342.
17. ALBERTO CAPRARA, ROMEO RIZZI, Packing Triangles in Bounded Degree Graphs, *Information Processing Letters* 84(4) (2002) 175–180.
16. ROMEO RIZZI, Minimum  $T$ -cuts and optimal  $T$ -pairings, *Discrete Mathematics* 257(1) (2002) 177–181.
15. ROMEO RIZZI, Finding 1-factors in bipartite regular graphs, and edge-coloring bipartite graphs, *SIAM Journal on Discrete Mathematics* 15(3) (2002) 283–288.
14. ALBERTO CAPRARA, ROMEO RIZZI, Improved Approximation for Breakpoint Graph Decomposition and Sorting by Reversals, *Journal of Combinatorial Optimization* 6 (2002) 157–182.
13. ROMEO RIZZI, Complexity of Context-free Grammars with Exceptions, and the inadequacy of grammars as models for XML and SGML, *Markup Languages: Theory and Practice* 3(1) (2001) 107–116.
12. ALESSANDRO PANCONESI, ROMEO RIZZI, Some Simple Distributed Algorithms for Sparse Networks, *Distributed Computing* 14 (2001) 97–100.
11. ROMEO RIZZI, On the Recognition of  $P_4$ -Indifferent Graphs, *Discrete Mathematics* 239 (2001) 161–169.
10. ROMEO RIZZI, On 4-connected graphs without even cycle decompositions, *Discrete Mathematics* 234 (2001) 181–186.
9. ROMEO RIZZI, Excluding a simple good pair approach to directed cuts, *Graphs and Combinatorics* 17 (2001) 741–744.
8. MICHELE CONFORTI, ROMEO RIZZI, Shortest Paths in Conservative Graphs, *Discrete Mathematics* 226 (2001) 143–153.
7. ROMEO RIZZI, A note on range-restricted circuit covers, *Graphs and Combinatorics* 16 (2000) 355–358.
6. ROMEO RIZZI, On minimizing symmetric set functions, *Combinatorica* 20(3) (2000) 445–450.
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4. AJAI KAPOOR, ROMEO RIZZI, Edge-coloring bipartite graphs, *Journal of Algorithms* 34(2) (2000) 390–396.
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## Chapters in Books

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2. ROMEO RIZZI, Eserciziario di matematica vol. 2, 2009 - Aracne, 156p, ISBN: 9788854827332.
1. ROMEO RIZZI, Eserciziario di matematica II, Edizioni Fai da Te della R & R, 2008 - stampato dalla Global Print in Gorgonzola (MI).

## Honors

- Since 2004, acting as Area Editor for the scientific journal 4OR.
- Editor of the proceedings of the Oberwolfach meeting in Graph Theory, January 2003, organized by Reinhard Diestel, Alexander Schrijver and Paul D. Seymour.
- Wrote, together with Prof. Michele Conforti, the review on 4OR of the masterpiece “*Combinatorial Optimization - Polyhedra and efficiency*” of Alexander Schrijver.
- Best Paper Award at IPDPS 2002 for a joint work with Alessandro Mei.
- Held the class “Algorithmic and Complexity issues in Structure Prediction and/or Determination” at the Third International School on Biology, Computation and Information (BCI 2006). Dobbiaco (BZ), Italy, September 11-15, 2006.
- Organizer, together with Giuseppe Lancia, of an invited session in Computational Biology ad AIRO 2005. Camerino.
- Invited speaker at BioInfoSummer 2004, held by the Australian National University in Canberra.
- Invited speaker at “Workshop on Cycle and Cut Bases” (2008) held at Tübingen and inserted in the framework SPP 1126 (Algorithmik großer und komplexer Netzwerke).
- Reviewer of Mathematical Reviews for the American Mathematical Society since 2004.
- Biography included in the 2007 and 2009 editions of *Who's Who in the World*.
- Biography included in the 2009/2010 edition of *Outstanding Intellectuals of the 21st Century* (IBC, Cambridge).
- Erdős number: 2.
- As educator, received the following recognizements from the *International Biographical Center, Cambridge*:
  - *The Decree of Excellence in Education*.
  - *International Educator of the Year* for 2007 and 2009.
  - *Top 100 Educators* 2008 and 2009.

Verona

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