

# Curriculum Vitae

## RIZZI ROMEO

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### Personal Data

NATIONALITY: Italian

DATE OF BIRTH: 20 April 1967

PRIVATE ADDRESS: via Bolleri N° 16/1 Martignano — 38121 (TN)

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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

#### Full Professor by the University of Verona

december 2019 – today. Sector: Operations Research.

**currently in charge by the department:** Membro della Commissione di valutazione assegni di tutorato per corsi di Informatica e Bioinformatica, Membro della Commissione Ammissione Studenti Internazionali - Matematica, Referente di Dipartimento per le Olimpiadi dell'informatica, 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 del Dipartimento di Informatica.

**courses for the department:** in Verona, I held the courses “Ricerca Operativa” for the bachelor degree in Applied Mathematics L35 (academic years from 2011-12 up to present) and “Algoritmi” for the master degree in Engineering and Informatics LM18+LM32 (academic years from 2011-12 up to present). I coordinated and held minicourses for the seminar course “Math Decisions” (2014-15, 15-16, 16-17, 17-18) for the master degree in Mathematics LM40. For the international degree in Mathematics LM40, the course “Mathematics for Decisions” (academic years from 2019-20 up to 2021-22); prior to this, I coordinated and held minicourses for the seminar course “Mathematics for Decisions” (2014-15, 15-16, 16-17, 17-18, 18-19). For the master degree in Data Science, the course “Discrete Optimization and Decision Making” (from 2022-23 up to present). Open to all the students of the department, the course “Programming Challenges” (academic years from 2013-14 up to present, but silent in 2020-21 because of the pandemic). 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 studens) 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 Verona

**december 2011 – december 2019.** 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:** see current employment.

### 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).

**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 taught 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. Buonarroti (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. Buonarroti (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. Buonarroti (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 Sebő 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 Fraser 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 Sherbrooke (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

Throughout my career I have disclosed the results of my research work through over 50 seminars at various Italian and foreign institutes.

## Publications on International Scientific Journals

117. GIULIA PUNZI, ALESSIO CONTE, ROBERTO GROSSI, ROMEO RIZZI: Refined Bounds on the Number of Eulerian Tours in Undirected Graphs, *Algorithmica* 86(1) (2024) 194–217.
116. MATTEO ZAVATTERI, ALICE RAFFAELE, DARIO OSTUNI, ROMEO RIZZI: An interdisciplinary experimental evaluation on the disjunctive temporal problem, *Constraints An Int. J.* 28(1) (2023) 1–12.
115. ENRICO ANGELELLI, RENATA MANSINI, ROMEO RIZZI: Solving the probabilistic profitable tour problem on a line, *Optim. Lett.* 17(8) (2023) 1873–1888
114. ROMEO RIZZI, STÉPHANE VIALETTE: On recognising words that are squares for the shuffle product, *Theor. Comput. Sci.* 956 (2023) 111156.
113. FEDERICA ARRIGONI, ANDREA FUSIELLO, ROMEO RIZZI, ELISA RICCI: Revisiting Viewing Graph Solvability: an Effective Approach Based on Cycle Consistency, *IEEE Transactions on Pattern Analysis and Machine Intelligence* (2022) 1–14. doi: 10.1109/TPAMI.2022.3212595. Online ahead of print.
112. MASSIMO CAIRO, SHAHBAZ KHAN, ROMEO RIZZI, SEBASTIAN S. SCHMIDT, ALEXANDRU I. TOMESCU: Safety in s-t Paths, Trails and Walks, *Algorithmica* 84(3) (2022) 719–741.
111. MATTEO ZAVATTERI, ROMEO RIZZI, TIZIANO VILLA: Dynamic controllability of temporal networks with instantaneous reaction, *Inf. Sci.* 613 (2022) 932–952.
110. MANUEL CÁCERES, BRENDAN MUMEY, EDIN HUSIC, ROMEO RIZZI, MASSIMO CAIRO, KRISTOFER SAHLIN, ALEXANDRU I. TOMESCU: Safety in Multi-Assembly via Paths Appearing in All Path Covers of a DAG, *IEEE ACM Trans. Comput. Biol. Bioinform.* 19(6) (2022) 3673–3684.
109. MASSIMO CAIRO, SHAHBAZ KHAN, ROMEO RIZZI, SEBASTIAN S. SCHMIDT, ALEXANDRU I. TOMESCU, ELIA C. ZIRONDELLI: A simplified algorithm computing all s-t bridges and articulation points, *Discret. Appl. Math.* 305 (2021) 103–108.
108. CARLO COMBI, ROMEO RIZZI, PIETRO SALA: Checking Sets of Pure Evolving Association Rules, *Fundam. Informaticae* 178(4) (2021) 283–313.
107. MATTEO ZAVATTERI, CARLO COMBI, ROMEO RIZZI, LUCA VIGANÒ: Consistency checking of STNs with decisions: Managing temporal and access-control constraints in a seamless way, *Inf. Comput.* 280 (2021) 104637.
106. LAURENT BULTEAU, GUILLAUME FERTIN, ANTHONY LABARRE, ROMEO RIZZI, IRENA RUSU: Decomposing subcubic graphs into claws, paths or triangles, *J. Graph Theory* 98(4) (2021) 557–588.
105. SARA GIULIANI, ZSUZSANNA LIPTÁK, FRANCESCO MASILLO, ROMEO RIZZI: When a dollar makes a BWT, *Theor. Comput. Sci.* 857 (2021) 123–146.
104. VICENTE ACUÑA, ROBERTO GROSSI, GIUSEPPE FRANCESCO ITALIANO, LEANDRO LIMA, ROMEO RIZZI, GUSTAVO SACOMOTO, MARIE-FRANCE SAGOT, BLERINA SINAIMERI: On Bubble Generators in Directed Graphs, *Algorithmica* 82(4) (2020) 898–914.
103. CARLO COMIN, ANTHONY LABARRE, ROMEO RIZZI, STÉPHANE VIALETTE: Sorting with forbidden intermediates, *Discret. Appl. Math.* 279 (2020) 49–68.
102. MASSIMO CAIRO, CARLO COMIN, ROMEO RIZZI: Instantaneous reaction-time in dynamic consistency checking of conditional simple temporal networks, *J. Log. Algebraic Methods Program.* 113 (2020) 100542.

101. PIETRO SALA, CARLO COMBI, MATTEO MANTOVANI, ROMEO RIZZI: Discovering Evolving Temporal Information: Theory and Application to Clinical Databases, *SN Comput. Sci.* 1(3) (2020) 153.
100. EDIN HUSIC, XINYUE LI, ADEMIR HUJDUROVIC, MIIKA MEHINE, ROMEO RIZZI, VELI MÄKINEN, MARTIN MILANIC, ALEXANDRU I. TOMESCU: MIPUP: minimum perfect unmixed phylogenies for multi-sampled tumors via branchings and ILP, *Bioinform.* 35(5) (2019) 769–777.
99. ROMEO RIZZI, ALEXANDRU I. TOMESCU: Faster FPTASes for counting and random generation of Knapsack solutions, *Inf. Comput.* 267 (2019) 135–144.
98. MASSIMO CAIRO, PAUL MEDVEDEV, NIDIA OBSCURA ACOSTA, ROMEO RIZZI, ALEXANDRU I. TOMESCU: An Optimal  $O(nm)$  Algorithm for Enumerating All Walks Common to All Closed Edge-covering Walks of a Graph, *ACM Trans. Algorithms* 15(4) (2019) 48:1–48:17.
97. ROMEO RIZZI, MASSIMO CAIRO, VELI MÄKINEN, ALEXANDRU I. TOMESCU, DANIEL VALENZUELA: Hardness of Covering Alignment: Phase Transition in Post-Sequence Genomics, *IEEE ACM Trans. Comput. Biol. Bioinform.* 16(1) (2019) 23–30.
96. MASSIMO CAIRO, ROMEO RIZZI: Dynamic controllability of simple temporal networks with uncertainty: Simple rules and fast real-time execution, *Theor. Comput. Sci.* 797 (2019) 2–16.
95. ENRICO FRACCAROLI, FRANCESCO STEFANNI, ROMEO RIZZI, DAVIDE QUAGLIA, FRANCO FUMMI: Network Synthesis for Distributed Embedded Systems, *IEEE Trans. on Computers* 67(9) (2018) 1315–1330.
94. CARLO COMIN, ROMEO RIZZI: Checking dynamic consistency of conditional hyper temporal networks via mean payoff games: Hardness and (pseudo) singly-exponential time algorithm, *Inf. Comput.* 259(3) (2018) 348–374.
93. CARLO COMIN, ROMEO RIZZI: An Improved Upper Bound on Maximal Clique Listing via Rectangular Fast Matrix Multiplication, *Algorithmica* 80(12) (2018) 3525–3562.
92. ALESSIO CONTE, ROBERTO GROSSI, ANDREA MARINO, ROMEO RIZZI: Efficient enumeration of graph orientations with sources, *Discrete Applied Mathematics* 246 (2018) 22–37.
91. ADEMIR HUJDUROVIC, EDIN HUSIC, MARTIN MILANIC, ROMEO RIZZI, ALEXANDRU I. TOMESCU: Perfect Phylogenies via Branchings in Acyclic Digraphs and a Generalization of Dilworth’s Theorem, *ACM Trans. Algorithms* 14(2) (2018) 20:1–20:26.
90. 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.
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 ALCÓN, MARISA GUTIERREZ, ISTVÁN KOVÁCS, MARTIN MILANIC, ROMEO RIZZI: Strong cliques and equistability of EPT graphs, *Discrete Applied Mathematics* 203 (2016) 13–25.
86. BOTH EMERITE NEOU, ROMEO RIZZI, STÉPHANE 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 MÄKINEN: 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 MICHAEL, 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.
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## Books (in Italian, for didactic purposes)

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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.

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