Curriculum Vitae
Rizzi Romeo

<center>(January 2026)</center>

Personal Data

Nationality: Italian
Date of birth: 20 April 1967
Private Address: via Bolleri N° 16/1 Martignano — 38121 (TN)
Phone Number: (Italy).3291780915 (cel)   (Italy).045.802.7088 (office)
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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.

<center>1</center>

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 deparment: 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 deparment: 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 enginering 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 thought into regular state high schools during the following periods:

year	period	school	subject	notes
89-90	**whole year**	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	**intero anno scolastico**	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 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.

November 2019: Research by the bioinformatic group of Professor Alexandru Tomescu by the University of Helsinki.

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.

November-December 2019: Research by the bioinformatic unit of Professor Sikora Florian by the University Doulphine in Paris.

Ottobre 2023: Ricerca all'Università Doulphine di Parigi presso il Professor Sikora Floriane.

November-December 2024 e 2025: Research by the bioinformatic group of Professor Alexandru Tomescu by the University of Helsinki.

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

128. ENRICO ANGELELLI, RENATA MANSINI, ROMEO RIZZI: A Polynomial-Time Algorithm for the Probabilistic Profitable Tour Problem on a Tree, *Math. Oper. Res.* 51(1) (2026) 476–497.

127. HÉLÈNE LANGLOIS, FRÉDÉRIC MEUNIER, ROMEO RIZZI, STÉPHANE VIALETTE, YACONG ZHOU: Quasi-kernels in split graphs, *Discret. Appl. Math.* 361 (2025) 236–243.

126. ALICE RAFFAELE, ROMEO RIZZI: New theoretical results on the Monotone Boolean Duality and the Monotone Boolean Dualization problems, *Discret. Appl. Math.* 361 (2025) 347–369.

125. CARLO COMIN, ROMEO RIZZI: Linear-time safe-alternating DFS and SCCs, *Inf. Comput.* 306: 105334 (2025).

124. TEWABE CHEKOLE WORKNEH, PIETRO SALA, ROMEO RIZZI, MATTEO CRISTANI: Business Process Compliance with impact constraints, *Inf. Syst.* 129: 102505 (2025).

123. FEDERICA ARRIGONI, ANDREA FUSIELLO, ROMEO RIZZI, ELISA RICCI, TOMÁS PAJDLA: Revisiting Viewing Graph Solvability: An Effective Approach Based on Cycle Consistency, *IEEE Trans. Pattern Anal. Mach. Intell.* 47(5) (2025) 3271–3284.

122. VIRGINIA ARDÉVOL MARTÍNEZ, ROMEO RIZZI, FLORIAN SIKORA, STÉPHANE VIALETTE: Recognizing unit multiple interval graphs is hard, *Discret. Appl. Math.* 360 (2025) 258–274.

121. 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.

120. ALICE RAFFAELE, ROMEO RIZZI, TAKEAKI UNO: Listing the bonds of a graph in $\tilde{O}(n)$-delay, *Discret. Appl. Math.* 348 (2024) 105–121.

119. BEATRICE AMICO, CARLO COMBI, ROMEO RIZZI, PIETRO SALA:: Predictive mining of multi-temporal relations, *Inf. Comput.* 301 (2024) 105228.

118. MASSIMO CAIRO, ROMEO RIZZI, ALEXANDRU I. TOMESCU, ELIA C. ZIRONDELLI: Genome Assembly, from Practice to Theory: Safe, Complete and Linear-Time, *ACM Trans. Algorithms* 20(1) (2024) 4:1–4:26.

117. MANUEL CÁCERES, MASSIMO CAIRO, ANDREAS GRIGORJEW, SHAHBAZ KHAN, BRENDAN MUMEY, ROMEO RIZZI, ALEXANDRU I. TOMESCU, LUCIA WILLIAMS: Width Helps and Hinders Splitting Flows, *ACM Trans. Algorithms* 20(2) (2024) 13.

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, KRISTOFFER 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 MILANICW, 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 KUOSMA-NEN, 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 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, *4OR* 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.

5. ROMEO RIZZI: A short proof of Kőnig's matching theorem, *Journal of Graph Theory* 33(3) (2000) 138–139.

4. AJAI KAPOOR, ROMEO RIZZI: Edge-coloring bipartite graphs, *Journal of Algorithms* 34(2) (2000) 390–396.

3. ROMEO RIZZI: Indecomposable r-graphs and some other counterexamples, *Journal of Graph Theory* 32(1) (1999) 1–15.

2. ALBERTO CAPRARA, ROMEO RIZZI: Improving a Family of Approximation Algorithms to Edge Color Multigraphs, *Information Processing Letters* 68(1) (1998) 11–15.

1. ROMEO RIZZI: Kőnig's Edge Coloring Theorem without augmenting paths, *Journal of Graph Theory* 29 (1998) 87.

International Conferences with Referee

100. FRANCISCO SENA, ROMEO RIZZI, ALEXANDRU I. TOMESCU: Safe Sequences via Dominators in DAGs for Path-Covering Problems, ESA 2025:: 55:1-55:17 (2025)

99. GIORGIO AUDRITO, LUIGI LAURA, ALESSIO ORLANDI, DARIO OSTUNI, ROMEO RIZZI, LUCA VERSARI: Turing Arena Light: Enhancing Programming Education Through Competitive Environments, From Strings to Graphs, and Back Again 2025: 11:1-11:14 (2025)

98. V. ARDÉVOL MARTÍNEZ, R. RIZZI, A. SAFFIDINE, F. SIKORA, STÉPHANE VIALETTE: Generalizing Roberts' Characterization of Unit Interval Graphs, MFCS 2024: 12:1–12:15 (2024)

97. A. GRIGORJEW, F.H.C. DIAS, A.CRACCO, R. RIZZI, A.I. TOMESCU: Accelerating ILP Solvers for Minimum Flow Decompositions Through Search Space and Dimensionality Reductions, SEA 2024: 14:1–14:19 (2024)

96. V. ARDÉVOL MARTÍNEZ, R. RIZZI, F. SIKORA, STÉPHANE VIALETTE: Recognizing Unit Multiple Intervals Is Hard, ISAAC 2023: 8:1–8:18 (2023)

95. V. ARDÉVOL MARTÍNEZ, R. RIZZI, F. SIKORA: Hardness of Balanced Mobiles, IWOCA 2023: 25–35 (2023)

94. M. CAIRO, S. KHAN, R. RIZZI, S.S. SCHMIDT, A.I. TOMESCU, E.C. ZIRONDELLI: Cut Paths and Their Remainder Structure, with Applications, STACS 2023: 17:1–17:17 (2023)

93. B. AMICO, C. COMBI, R. RIZZI, P. SALA: Discovering Predictive Dependencies on Multi-Temporal Relations, TIME 2023: 4:1–4:19 (2023)

92. M. CÁCERES, M. CAIRO, B. MUMEY, R. RIZZI, A.I. TOMESCU: Sparsifying, Shrinking and Splicing for Minimum Path Cover in Parameterized Linear Time, SODA 2022: 359–376 (2022)

91. M. CÁCERES, M. CAIRO, A. GRIGORJEW, S. KHAN, B. MUMEY, R. RIZZI, A.I. TOMESCU, L. WILLIAMS: Width Helps and Hinders Splitting Flows, ESA 2022: 31:1–31:14 (2022)

90. H. LANGLOIS, F. MEUNIER, R. RIZZI, S. VIALETTE: Algorithmic Aspects of Small Quasi-Kernels, Graph-Theoretic Concepts in Computer Science - 48th International Workshop, WG 2022: 370–382 (2022)

89. D. OSTUNI, A. RAFFAELE, R. RIZZI, M. ZAVATTERI: Faster and Better Simple Temporal Problems, AAAI 2021: 11913–11920 (2021)

88. D. OSTUNI, E. MORASSUTTO, R. RIZZI: Make your programs compete and watch them play in the Code Colosseum, CoG 2021: 1–5 (2021)

87. M. CAIRO, R. RIZZI, A.I. TOMESCU, E.C. ZIRONDELLI: Genome Assembly, from Practice to Theory: Safe, Complete and Linear-Time, ICALP 2021: 43:1–43:18 (2021)

86. M. CÁCERES, M. CAIRO, B. MUMEY, R. RIZZI, A.I. TOMESCU: A Linear-Time Parameterized Algorithm for Computing the Width of a DAG, WG 2021: 257–269 (2021)

85. M. ZAVATTERI, R. RIZZI, T. VILLA: Dynamic Controllability and (J, K)-Resiliency in Generalized Constraint Networks with Uncertainty, ICAPS 2020: 314–322 (2020)

84. M. ZAVATTERI, R. RIZZI, T. VILLA: On the Complexity of Resource Controllability in Business Process Management, Business Process Management Workshops 2020: 168–180 (2020)

83. M. ZAVATTERI, R. RIZZI, T. VILLA: Temporal Networks with Decisions, OVERLAY@AI*IA 2019: 77–82 (2019)

82. M. Zavatteri, R. Rizzi, T. Villa: and Dynamic Controllability of CNCUs, OVER-LAY@AI*IA 2019: 83–88 (2019)

81. S. Giuliani, Z. Lipták, R. Rizzi: When a Dollar Makes a BWT, ICTCS 2019: 20–33 (2019)

80. M. Zavatteri, C. Combi, R. Rizzi, L. Viganò: Hybrid SAT-Based Consistency Checking Algorithms for Simple Temporal Networks with Decisions, TIME 2019: 16:1–16:17 (2019)

79. C. Comin, R. Rizzi: On Restricted Disjunctive Temporal Problems: Faster Algorithms and Tractability Frontier. TIME 2018: 10:1–10:20 (2018)

78. M. Cairo, L. Hunsberger, R. Rizzi: Faster Dynamic Controllability Checking for Simple Temporal Networks with Uncertainty, TIME 2018: 8:1–8:16 (2018)

77. L. Bulteau, R. Rizzi, S. Vialette: Pattern Matching for k-Track Permutations, IWOCA 2018: 102–114 (2018)

76. A. Conte, R. Grossi, A. Marino, R. Rizzi, L. Versari: Listing Subgraphs by Cartesian Decomposition, MFCS 2018: 84:1–84:16 (2018)

75. A. Conte, R. Grossi, A. Marino, R. Rizzi, T. Uno, L. Versari: Tight Lower Bounds for the Number of Inclusion-Minimal st-Cuts, WG 2018: 100–110 (2018)

74. M. Cairo, P. Medvedev, N.O. Acosta, R. Rizzi, A.I. Tomescu: Optimal Omnitig Listing for Safe and Complete Contig Assembly, CPM 2017: 29:1–29:12 (2017)

73. M. Cairo, R. Rizzi: The Complexity of Simulation and Matrix Multiplication, SODA 2017: 2203–2214 (2017)

72. M. Cairo, R. Rizzi: Dynamic Controllability Made Simple, TIME 2017: 8:1–8:16 (2017)

71. M. Cairo, C. Combi, C. Comin, L. Hunsberger, R. Posenato, R. Rizzi, M. Zavatteri: Incorporating Decision Nodes into Conditional Simple Temporal Networks, TIME 2017: 9:1–9:18 (2017)

70. M. Cairo, L. Hunsberger, R. Posenato, R. Rizzi: A Streamlined Model of Conditional Simple Temporal Networks - Semantics and Equivalence Results, TIME 2017: 10:1–10:19 (2017)

69. V. Acuña, R. Grossi, G.F. Italiano, L. Lima, R. Rizzi, G. Sacomoto, M-F. Sagot, B. Sinaimeri: On Bubble Generators in Directed Graphs, WG 2017: 18–31 (2017)

68. A. Hujdurovic, E. Husic, M. Milanic, R. Rizzi, A.I. Tomescu: The Minimum Conflict-Free Row Split Problem Revisited, WG 2017: 303–315 (2017)

67. M. Cairo, G. Farina, R. Rizzi: Decoding Hidden Markov Models Faster Than Viterbi Via Online Matrix-Vector (max, +)-Multiplication, AAAI 2016: 1484–1490 (2016)

66. C. Comin, A. Labarre, R. Rizzi, S. Vialette: Sorting with Forbidden Intermediates, AlCoB 2016: 133–144 (2016)

65. A. Kuosmanen, A. Sobih, R. Rizzi, V. Mäkinen, A.I. Tomescu: On using Longer RNA-seq Reads to Improve Transcript Prediction Accuracy, BIOINFORMATICS 2016: 272–277 (2016)

64. L. Bulteau, G. Fertin, A. Labarre, R. Rizzi, I. Rusu: Decomposing Cubic Graphs into Connected Subgraphs of Size Three, COCOON 2016: 393–404 (2016)

63. A. Conte, R. Grossi, A. Marino, R. Rizzi, L. Versari: Directing Road Networks by Listing Strong Orientations, IWOCA 2016: 83–95 (2016)

62. A. Conte, R. Grossi, A. Marino, R. Rizzi: Listing Acyclic Orientations of Graphs with Single and Multiple Sources, LATIN 2016: 319–333 (2016)

61. A. FARINELLI, G. FRANCO, R. RIZZI: Minimal Multiset Grammars for Recurrent Dynamics, Int. Conf. on Membrane Computing 2016: 177–189 (2016)

60. M. CAIRO, R. GROSSI, R. RIZZI: New Bounds for Approximating Extremal Distances in Undirected Graphs, SODA 2016: 363–376 (2016)

59. B.E. NEOU, R. RIZZI, S. VIALETTE: Pattern Matching for Separable Permutations, SPIRE 2016: 260–272 (2016)

58. M. CAIRO, C. COMIN, R. RIZZI: Instantaneous Reaction-Time in Dynamic-Consistency Checking of Conditional Simple Temporal Networks, TIME 2016: 80–89 (2016)

57. M. CAIRO, R. RIZZI: Dynamic Controllability of Conditional Simple Temporal Networks Is PSPACE-complete, TIME 2016: 90–99 (2016)

56. A. CONTE, R. GROSSI, A. MARINO, R. RIZZI: Enumerating Cyclic Orientations of a Graph, IWOCA 2015: 88–99 (2015)

55. C. COMIN, R. RIZZI: Dynamic Consistency of Conditional Simple Temporal Networks via Mean Payoff Games: A Singly-Exponential Time DC-checking, TIME 2015: 19–28 (2015)

54. C. COMBI, R. RIZZI, P. SALA: The Price of Evolution in Temporal Databases, TIME 2015: 47–58 (2015)

53. R. RIZZI, G. SACOMOTO, M-F. SAGOT: Efficiently Listing Bounded Length st-Paths, IWOCA 2014: 318–329 (2014)

52. G. Bacci, M. Miculan, R. Rizzi: Finding a Forest in a Tree - The Matching Problem for Wide Reactive Systems, TGC 2014: 17–33 (2014)

51. R.A. Ferreira, R. Grossi, R. Rizzi, G. Sacomoto, M-F. Sagot: Amortized $\tilde{O}(|V|)$-Delay Algorithm for Listing Chordless Cycles in Undirected Graphs, ESA 2014: 418–429 (2014)

50. R. Rizzi, A.I. Tomescu: Faster FPTASes for Counting and Random Generation of Knapsack Solutions, ESA 2014: 762–773 (2014)

49. G. Blin, P. Morel, R. Rizzi, S. Vialette: Towards Unlocking the Full Potential of Multileaf Collimators, SOFSEM 2014: 138–149 (2014)

48. C. Comin, R. Rizzi, R. Posenato: A Tractable Generalization of Simple Temporal Networks and Its Relation to Mean Payoff Games, TIME 2014: 7–16 (2014)

47. R. Rizzi, S. Vialette: On Recognizing Words That Are Squares for the Shuffle Product, CSR 2013: 8th International Computer Science Symposium in Russia. LNCS 7913: 235–245 (2013)

46. E. Birmelé, R.A. Ferreira, R. Grossi, A. Marino, N. Pisanti, R. Rizzi, G. Sacomoto: Optimal Listing of Cycles and st-Paths in Undirected Graphs, SODA 2013: SIAM: 1884–1896 (2013)

45. F. Cicalese, T. Gagie, E. Giaquinta, E.S. Laber, Z. Lipták, R. Rizzi, A.I. Tomescu: Indexes for Jumbled Pattern Matching in Strings, Trees and Graphs, SPIRE 2013: 56–63 (2013)

44. R. Rizzi, R. Posenato: Optimal Design of Consistent Simple Temporal Networks, TIME 2013: 19–25 (2013)

43. A.I. Tomescu, A. Kuosmanen, R. Rizzi, V. Mäkinen: A Novel Combinatorial Method for Estimating Transcript Expression with RNA-Seq: Bounding the Number of Paths, WABI 2013: 85–98 (2013)

42. R. Rizzi, F. Sikora: Some Results on more Flexible Versions of Graph Motif, CSR 2012: 7th International Computer Science Symposium in Russia. LNCS 7353: 278–289 (2012)

41. D. Hermelin, R. Rizzi, S. Vialette: Algorithmic Aspects of the Intersection and Overlap Numbers of a Graph, ISAAC 2012: Algorithms and Computation - 23rd International Symposium LNCS 7676: 465–474 (2012)

40. G. Blin, P. Bonizzoni, R. Dondi, R. Rizzi, F. Sikora: Complexity Insights of the Minimum Duplication Problem, SOFSEM 2012: Theory and Practice of Computer Science. LNCS 7147: 153–164 (2012)

39. X. Yang, F. Sikora, G. Blin, S. Hamel, R. Rizzi, S. Aluru: An Algorithmic View on Multi-Related-Segments: A Unifying Model for Approximate Common Interval, TAMC 2012: Theory and Applications of Models of Computation - 9th Annual Conference. LNCS 7287: 319–329 (2012)

38. G. Blin, R. Rizzi, S. Vialette: A Polynomial-Time Algorithm for Finding a Minimal Conflicting Set Containing a Given Row, CSR 2012: 6th International Computer Science Symposium in Russia. LNCS 6651: 373–384 (2011)

37. E. Amaldi, C. Iuliano, R. Rizzi: On cycle bases with limited edge overlap, CTW 2011: Proceedings of the 10th Cologne-Twente Workshop on graphs and combinatorial optimization http://ctw2011.dia.uniroma3.it/ctw_proceedings.pdf#page=64: 52–55 (2011)

36. R.A. Ferreira, R. Grossi, R. Rizzi: Output-Sensitive Listing of Bounded-Size Trees in Undirected Graphs, 19th Annual European Symposium on Algorithms (ESA 2011). LNCS 6942: 275–286 (2011)

35. E. Amaldi, C. Iuliano, R. Rizzi: Efficient Deterministic Algorithms for Finding a Minimum Cycle Basis in Undirected Graphs, Integer Programming and Combinatorial Optimization, 14th International Conference (IPCO 2010) LNCS 6080: 397–410 (2010)

34. G. Blin, R. Rizzi, S. Vialette: A Faster Algorithm for Finding Minimum Tucker Submatrices, 6th Conference on Computability in Europe (CiE 2010). LNCS 6158: 69–77 (2010)

33. E. Amaldi, C. Iuliano, T. Jurkiewicz, K. Mehlhorn, R. Rizzi: Breaking the $O(m^2n)$ Barrier for Minimum Cycle Bases, 17th Annual European Symposium on Algorithms (ESA 2009). LNCS 5757: 301–312 (2009)

32. P. Bonizzoni, G. Della Vedova, R. Dondi, Y. Pirola, R. Rizzi: Pure Parsimony Xor Haplotyping, Bioinformatics Research and Applications, 5th International Symposium (ISBRA 2009). LNCS 5542: 186–197 (2009)

31. G. Fertin, D. Hermelin, R. Rizzi, S. Vialette: Common Structured Patterns in Linear Graphs: Approximations and Combinatorics, 18th Symposium on Combinatorial Pattern Matching (CPM'07). LNCS 4580: 241–252 (2007)

30. G. Brevier, R. Rizzi, S. Vialette: Pattern Matching in Protein-Protein Interaction Graphs, 16th International Symposium on Fundamentals of Computation Theory (FCT 2007). LNCS 4639: 137–148 (2007)

29. D. Hermelin, D. Rawitz, R. Rizzi, S. Vialette: The Minimum Substring Cover Problem, In, Christos Kaklamanis, Martin Skutella, editors, 5th Workshop on Approximation and Online Algorithms (WAOA'07). LNCS 4927: 170–183 (2007)

28. C. Liebchen, G. Wünsch, E. Köhler, A. Reich, R. Rizzi: Benchmarks for Strictly Fundamental Cycle Bases, WEA 2007: LNCS 4525: 365–378 (2007)

27. M. Kubica, R. Rizzi, S. Vialette, T. Waleń: Approximation of RNA Multiple Structural Alignment, 17th Symposium on Combinatorial Pattern Matching (CPM'06). LNCS 4009: 211–222 (2006)

26. G. Lancia, F. Rinaldi, R. Rizzi: Flipping letters to minimize the support of a string, in The Prague Stringology Conference, PSC06, Stringology 9–17 (2006)

25. R. Cohen, R. Rizzi: On the Trade-Off Between Energy and Multicast Efficiency in 802.16e-Like Mobile Networks, INFOCOM 2006.

24. C. Chauve, G. Fertin, R. Rizzi, S. Vialette: Genomes containing duplicates are hard to compare, Int. Workshop on Bioinformatics Research and Applications (IWBRA). LNCS 3992: 783–790 (2006)

23. M. Dalpasso, G. Lancia and R. Rizzi: The String Barcoding Problem is NP-Hard, in RECOMB Satellite on Comparative Genomics, (A. Mc Lyshag and D. Huson eds), Lecture Notes in Bioinformatics, Springer, 85–93, (2005)

22. G. Fertin, R. Rizzi, S. Vialette: Finding Exact and Maximum Occurrences of Protein Complexes in Protein-Protein Interaction Graphs, International Symposium on Mathematical Foundations of Computer Science (MFCS'05). LNCS 3618: 328–339 (2005)

21. A. Mei, R. Rizzi: Online Permutation Routing in Partitioned Optical Passive Star Networks, CoRR abs/cs/0502093. (2005)

20. G. Blin, G. Fertin, R. Rizzi, S. Vialette: What Makes the Arc-Preserving Subsequence Problem Hard? 5th Int. Workshop on Bioinformatics Research and Applications (IWBRA'05). LNCS 3515: 860–868 (2005)

19. G. Blin, R. Rizzi: Conserved Interval Distance Computation Between Non-trivial Genomes, COCOON 2005: LNCS 3595: 22–31 (2005)

18. G. Lancia, R. Rizzi: Combinatorial Problems Arising in the Analysis of Human Polymorphisms, AIRO 2005, Camerino (2005)

17. G. Lancia, F. Rinaldi, R. Rizzi: Reducing the k-mer diversity of a string, AIRO 2004, Lecce (2004)

16. G. Blin, G. Fertin, R. Rizzi, S. Vialette: Pattern Matching in Arc-Annotated Sequences: New Results for the APS Problem, 5th Journées Ouvertes de Biologie, Informatique et Mathématiques (JOBIM'04). Montréal, Quebec. 2004. IEEE Computer Society.

15. E. Ardizzoni, A.A. Bertossi, M.C. Pinotti, R. Rizzi: Comparing Algorithms for Data Broadcasting over Multiple Channels, Algorithms for Wirelss and Ad-hoc networks (ASWAN), Boston, USA, August 2004.

14. A.A. Bertossi, M.C. Pinotti, S. Ramaprasad, R. Rizzi, M.V.S. Shashanka: Optimal multi-channel data allocation with flat broadcast per channel, IEEE Int'l Parallel and Distributed Processing Symposium (IPDPS), Santa Fe, April 2004.

13. Z-Z. Chen, T. Jiang, G.-H. Lin, R. Rizzi, J. Wen, D. Xu, Y. Xu: More Reliable Protein NMR Peak Assignment via Improved 2-Interval Scheduling, ESA 2003: LNCS 2832: 580-592 (2003)

12. M. Cettolo, M. Vescovi, R. Rizzi: A DP Algorithm for Speaker Change Detection, Eurospeech 2003.

11. A. Mei, R. Rizzi: Mapping Hypercube Computations onto Partitioned Optical Passive Star Networks, HiPC: LNCS 2913: 95–104 (2003)

10. S. Finbow, A. King, G. MacGillivray, R. Rizzi: The Firefighter Problem for Graphs of Maximum Degree Three, EuroComb'03.

9. A.A. Bertossi, M.C. Pinotti, R. Rizzi, A.M. Shende: Channel Assignment in Honeycomb Networks, 3rd ICTCS, Bertinoro, Italy, October 2003.

8. A.A. Bertossi, M.C. Pinotti R. Rizzi: Channel Assignment with Separation on Trees and Interval Graphs, 3rd Int'l Workshop on Wireless, Mobile and Ad Hoc Networks, (satellite workshop of IEEE IPDPS 2003), April 2003.

7. A.A. Bertossi, M.C. Pinotti, R. Rizzi, P. Gupta: Allocating Servers in Infostations for Bounded Simultaneous Requests, IEEE Int'l Parallel and Distributed Processing Symposium (IPDPS), Nice, April 2003.

6. A.A. Bertossi, M.C. Pinotti, R. Rizzi: Channel assignment on strongly-simplicial graphs, IEEE WMAN, Nice, April 2003.

5. R. Rizzi, V. Bafna, S. Istrail, and G. Lancia: Practical Algorithms and Fixed-parameter Tractability of the Single Individual SNP Haplotyping Problem, 2nd Workshop on Algorithms in Bioinformatics (WABI), LNCS 2452: 29–43, 2002.

4. A. Mei, R. Rizzi: Routing Permutations in Partitioned Optical Passive Star Networks, IPDPS 2002.

3. A. Caprara, A. Panconesi, R. Rizzi: Packing Cycles and Cuts in Undirected Graphs, ESA 2001: LNCS 2161: 512–523 (2001)

2. R. Rizzi: On minimizing symmetric set functions, Fourth Slovene International Conference in Graph Theory, 1999.

1. M. Conforti, R. Rizzi: Shortest Paths in Conservative Graphs, AIRO '96, Perugia, 1996.

Chapters in Books

5. ALAN A. BERTOSSI, CRISTINA M. PINOTTI, ROMEO RIZZI: Data Broadcasts on Multiple Wireless Channels: Exact and Time-Optimal Solutions for Uniform Data and Heuristics for Non-Uniform Data, Updated Chapter 73 for the Second Edition of: Handbook of Approximation Algorithms and Metaheuristics (T.F. Gonzalez, Editor), Vol I: Basic Methodologies and Techniques Taylor & Francis Books (CRC Press), Chapman & Hall/CRC, Boca Raton, 2017, pp. 73.1–73.16.

4. ALAN A. BERTOSSI, CRISTINA M. PINOTTI, ROMEO RIZZI, PHALGUNI GUPTA: Scalable algorithms for server allocation in infostations, Chapter 27 in: Handbook of Research on Scalable Computing Technologies (K-C. Li, C-H. Hsu, L.T. Yang, J. Dongarra, H. Zima Editors), IGI Global, 2008.

3. ALAN A. BERTOSSI, CRISTINA M. PINOTTI, ROMEO RIZZI: Scheduling data broadcasts on wireless channels: exact solutions and heuristics, Chapter 73 in: Handbook of Approximation Algorithms and Metaheuristics (T.F. Gonzalez, Editor), Taylor & Francis Books (CRC Press), Chapman & Hall/CRC, Boca Raton, 2007, pp. 73.1–73.16.

2. ALAN A. BERTOSSI, CRISTINA M. PINOTTI, ROMEO RIZZI, ANIL M. SHENDE: Channel assignment in honeycomb networks, Theoretical computer science, 150–162, Lecture Notes in Comput. Sci., 2841, Springer, Berlin, 2003.

1. ROBERTO BATTITI, ALAN A. BERTOSSI, ROMEO RIZZI: Randomized Greedy Algorithms for the Hypergraph Partitioning Problem, Cap. 2, Vol. 43. Randomized Methods in Algorithm Design. DIMACS: Series in Discrete Mathematics and Theoretical Computer Science Pardalos P., Rajasekaran S., Rolim J. (a cura di), Providence, RI: American Mathematical Society. 1998. pp. 3-21.

Books (in Italian, for didactic purposes)

3. ALFIO MARINI, ROMEO RIZZI: Eserciziario di matematica I e II, 2011 - Aracne, 232p, ISBN: 9788854844520.
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 Prediciton 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).

- Erdös number: 2.

- As educator, received the following recognizments 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   Romeo Rizzi