

Curriculum dell'attività scientifica e didattica di RICCARDO DONDI

Dipartimento di Lettere, Filosofia, Comunicazione
Università degli Studi di Bergamo
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POSIZIONI

APRILE 2017

Professore associato presso l'Università degli Studi di Bergamo

OTTOBRE 2009

Ricercatore confermato presso l'Università degli Studi di Bergamo

FEBBRAIO 2006

Ricercatore presso l'Università degli Studi di Bergamo

INCARICHI ISTITUZIONALI

2025- Referente del Dipartimento di Lettere, Filosofia, Comunicazione per la giornata sulla sostenibilità

2023-

Vicepresidente e referente per la mobilità internazionale del corso di laurea magistrale in Valorizzazione del patrimonio culturale materiale e immateriale, Università degli Studi di Bergamo

2018-2021

Membro della Commissione di Ateneo per gli studenti disabili e DSA, Università degli Studi di Bergamo

2017-2023

Referente per le tesi di laurea del corso di laurea in magistrale in Comunicazione, Informazione, Editoria, Università degli Studi di Bergamo

2012-

Referente per le prove finali del corso di laurea in Scienze della Comunicazione, Università degli Studi di Bergamo

2014-2016

Referente per i laboratori del corso di laurea in Scienze della Comunicazione, Università degli Studi di Bergamo

2007-2010

Referente per i piani di studio del corso di laurea magistrale in Comunicazione ed Editoria Multimediale, Università degli Studi di Bergamo

ASSEGNI DI RICERCA

APRILE 2005 - GENNAIO 2006

Assegno di ricerca nell'ambito del progetto di ricerca "Bioinformatica e modelli di calcolo bioispirati" sotto la guida del Prof. Giancarlo Mauri finanziato dall'Università degli Studi di Milano-Bicocca

GENNAIO 2004 - DICEMBRE 2004

Assegno di ricerca nell'ambito del progetto di ricerca "Bioinformatica per la genomica e la proteomica (FIRB)" presso l'Università degli Studi di Milano sotto la guida del Prof. Graziano Pesole

APRILE 2001 - DICEMBRE 2003

Assegno di ricerca nell'ambito del progetto di ricerca "MILK (Multi-media Interaction for Learning and Knowing)" finanziato dall'Unione Europea, sotto la guida del Prof. Flavio De Paoli, presso l'Università degli Studi di Milano-Bicocca

TITOLI DI STUDIO

GENNAIO 2005

Dottorato di Ricerca in Informatica, Dipartimento di Informatica, Sistemistica e Comunicazione, Università degli Studi di Milano-Bicocca, XVII ciclo.

MARZO 1999

Laurea in Scienze dell'Informazione, Università degli Studi di Milano.

INCARICHI PRESSO ISTITUZIONI ESTERE

A.A. 2014-15

Invited Professor, Université de Paris-Dauphine (Francia)

VISITE DI RICERCA

SETTEMBRE 2024

Prof. Andrea Marino, Università degli Studi di Firenze

AGOSTO 2015

Prof. Nadia El-Mabrouk, Université de Montreal (Canada)

FEBBRAIO, APRILE, GIUGNO 2015

Prof. Florian Sikora, Université de Paris-Dauphine (Francia)

LUGLIO - AGOSTO 2013

Prof. Nadia El-Mabrouk, Université de Montreal (Canada)

DICEMBRE 2010

Prof. Stéphane Vialette, Université Paris-Est Marne-la-Vallée (Francia)

AGOSTO 2006

Prof. Guillaume Fertin, LINA, Université de Nantes (Francia)

DICEMBRE 2005

Prof. Guillaume Fertin, LINA, Université de Nantes (Francia)

LUGLIO - AGOSTO 2005

Prof. Bhaskar DasGupta, University of Illinois at Chicago (U.S.A.)

ATTIVITÀ DI RICERCA

Ha concentrato l'attività di ricerca principalmente nei seguenti settori: Algoritmi per l'analisi di reti, Bioinformatica, Data Anonymization e Information Retrieval.

Algoritmi per l'analisi di reti

L'attività di ricerca si è concentrata sull'analisi della complessità computazionale e il disegno di algoritmi esatti ed approssimanti per la soluzione di problemi di analisi di reti. In particolare la ricerca si è concentrata sulla ricerca di sottografi densi e sullo studio delle reti temporali.

Bioinformatica

L'attività di ricerca in bioinformatica riguarda l'analisi della complessità computazionale e il disegno di algoritmi esatti ed approssimanti per la soluzione di problemi di ottimizzazione in tale ambito. In particolare, la ricerca si è focalizzata sulle seguenti tematiche:

- Ricostruzione e confronto di alberi evolutivi
- Inferenza di aplotipi
- Clustering di dati sperimentali
- Ricostruzione di reti biologiche
- Confronto di sequenze biologiche

Data Anonymization

L'attività di ricerca in tale ambito riguarda lo studio di alcuni approcci per la pubblicazione di dati sperimentali che garantiscano la privacy degli individui coinvolti nella sperimentazione.

Information Retrieval

Gli obiettivi della ricerca in tale ambito si sono concentrati sulla profilazione degli utenti, sulla descrizione dei contenuti semantici di un documento e sulla descrizione delle relazioni tra documenti.

SEMINARI TENUTI E PRESENTAZIONI

INTERVENTI SU INVITO

LUGLIO 2023

ICALP Satellite Workshop on Algorithmic Aspects of Temporal Graphs, Paderborn. *Covering Timeline in Temporal Graphs: Complexity and Algorithms.*

GIUGNO 2015

Paris-Dauphine. *Gene Tree Editing for Reconciliation.*

NOVEMBRE 2012

Journées COMATEGE-SeqBio, Paris-Est Marne-la-Vallée. *Some Recent Combinatorial Approaches to Genome Comparison.*

INTERVENTI IN CONFERENZE INTERNAZIONALI

GIUGNO 2025

36th Annual Symposium on Combinatorial Pattern Matching, CPM 2025, Milan. *Representing Paths in Digraphs.*

GIUGNO 2024

3rd Symposium on Algorithmic Foundations of Dynamic Networks, SAND 2024, Patras. *On the Complexity of Temporal Arborescence Reconfiguration.*

SETTEMBRE 2023

18th International Symposium on Parameterized and Exact Computation, IPEC 2023, Amsterdam. *An FPT Algorithm for Temporal Graph Untangling.*

SETTEMBRE 2022

23rd Italian Conference on Theoretical Computer Science, ICTCS 2022, Rome. *Insights into the Complexity of Disentangling Temporal Graphs.*

GIUGNO 2022

14th KES-IDT 2022 Conference, Rhodes. *Sequence Classification via LCS.*

SETTEMBRE 2021

14th-15th International Conference on Language and Automata Theory and Applications, Milano. *Complexity Issues of String to Graph Approximate Matching.*

AGOSTO 2019

22nd International Symposium on Fundamentals of Computation Theory, Copenhagen. *On the Tractability of Covering a Graph with 2-Clubs.*

LUGLIO 2018

29th International Workshop on Combinatorial Algorithms, Singapore. *Covering with Clubs: Complexity and Approximability.*

LUGLIO 2017

28th Annual Symposium on Combinatorial Pattern Matching, Warsaw. *The Longest Filled Common Subsequence Problem.*

AGOSTO 2016

16th International Workshop on Algorithms in Bioinformatics, Aarhus. *Correction of Weighted Orthology and Paralogy Relations - Complexity and Algorithmic Results.*

GIUGNO 2016

8th International KES Conference on Intelligent Decision Technology, KES-IDT 2016, Puerto De La Cruz. *Clique editing to support case versus control discrimination.*

GIUGNO 2014

10th Conference on Computability in Europe, Budapest. *Gene Tree Correction by Leaf Removal and Modification: Tractability and Approximability.*

MARZO 2014

3rd International Symposium on Combinatorial Optimization, Lisbon.
Fixed-Parameter Algorithms for Scaffold Filling.

LUGLIO 2013

9th Conference on Computability in Europe, Milano. *Aligning and Labeling Genomes under the Duplication-Loss Model.*

APRILE 2013

7th International Conference on Language and Automata Theory and Applications, Bilbao. *Duplication-Loss Genome Alignment: Complexity and Algorithm.*

LUGLIO 2012

23th Annual Symposium on Combinatorial Pattern Matching, Helsinki.
Minimum Leaf Removal for Reconciliation: Complexity and Algorithms.

AGOSTO 2011

36th International Symposium on Mathematical Foundations of Computer Science, Warsaw. *On the Complexity of the l -Diversity Problem.*

GIUGNO 2011

22th Annual Symposium on Combinatorial Pattern Matching, Palermo.
Finding Approximate and Constrained Motifs in Graphs.

LUGLIO 2010

21st International Workshop on Combinatorial Algorithms, London.
Parameterized Complexity of k -Anonymity: Hardness and Tractability.

SETTEMBRE 2009

17th International Symposium on Fundamentals of Computation Theory, Wroclaw. *The Longest Haplotype Reconstruction Problem Revisited.*

SETTEMBRE 2009

17th International Symposium on Fundamentals of Computation Theory, Wroclaw. *The k -Anonymity Problem Is Hard.*

GIUGNO 2009

20th Annual Symposium on Combinatorial Pattern Matching, Lille.
Maximum Motif Problem in Vertex-Colored Graphs.

OTTOBRE 2007

10th Italian Conference on Theoretical Computer Science, Roma. *Weak pattern matching in colored graphs: Minimizing the number of connected components.*

LUGLIO 2006

17th Annual Symposium on Combinatorial Pattern Matching, Barcelona.
Fingerprint Clustering with Bounded Number of Missing Values.

MAGGIO 2006

International Conference on Computational Science 2006, Reading.
Exemplar Longest Common Subsequence.

MAGGIO 2005

International Conference on Computational Science 2005, Atlanta.
Experimental Analysis of a New Algorithm for Partial Haplotype Completion.

MAGGIO 2003

5th Italian Conference on Algorithms and Complexity, Roma. *Reconciling Gene Trees to a Species Tree.*

PARTECIPAZIONE A PROGETTI DI RICERCA

2025-2026 Responsabile progetto FAR: “.”

2023-2024 Responsabile progetto FAR: “Tecniche computazionali per lo studio di reti complesse.”

2019-2021 Responsabile progetto FAR: “Approcci algoritmici innovativi per l’analisi di grafi.”

2018-2019 Responsabile progetto FFABR: “Nuovi approcci computazionali all’analisi di grafi.”

2017-2018 Responsabile progetto FAR: “Nuovi approcci algoritmici per la ricerca di reti coesive.”

2014-2016 Partecipazione progetto PRIN 2010-11: “Automati e Linguaggi Formali: Aspetti Matematici e Applicativi.”

2015 Responsabile progetto FAR: “Nuovi approcci algoritmici per il confronto di sequenze.”

2014 Responsabile progetto FAR: “Metodi algoritmici per l’analisi di sequenze biologiche.”

2013 Responsabile progetto FAR: “Confronto tra genomi: nuovi approcci computazionali.”

2011-2012 Responsabile progetto FAR: “Metodi di confronto tra stringhe: complessità e algoritmi.”

2009-2010 Responsabile progetto FAR: “Algoritmi per il trattamento di sequenze.”

2007-2008 Responsabile progetto FAR: “Strumenti efficienti per l’organizzazione dell’informazione digitale.”

2003-2004 Partecipazione progetto FIRB 2003-2004: “Bioinformatica: genomica e proteomica.”

2001-2003 Partecipazione progetto FP5: “MILK (Multimedia Interaction for Learning and Knowing)” finanziato dall’Unione Europea.

ESPERIENZE DIDATTICHE

Dall’A.A. 2018/2019, titolare del corso di Informatica per la comunicazione, Corso di laurea in Scienze della comunicazione, Università degli studi di Bergamo.

Dall’A.A. 2018/2019, titolare del corso di Data Analytics, Corso di laurea in Scienze della comunicazione, Università degli studi di Bergamo.

Dall’A.A. 2023/2024, titolare del modulo di Informatica per la comunicazione LM, Corso di laurea magistrale in Valorizzazione del patrimonio culturale materiale e immateriale, Università degli studi di Bergamo.

Dall’A.A. 2019/2020 all’A.A. 2022/23, titolare del corso di Informatica di base, Corso di laurea in Scienze della comunicazione, Università degli studi di Bergamo.

A.A. 2017/2018, titolare del corso di Teoria e tecniche della progettazione web, Corso di laurea magistrale in Comunicazione, informazione ed editoria, Università degli studi di Bergamo.

Dall’ A.A. 2017/2018 all’A.A. 2020/21, titolare del corso di Informatica teorica, Corso di laurea magistrale in Ingegneria informatica, Università degli studi di Bergamo.

Dall’A.A. 2011/2012 all’A.A. 2022/2023, titolare del modulo di Informatica per la comunicazione LM, Corso di laurea magistrale in Comunicazione, informazione ed editoria, Università degli studi di Bergamo.

Dall’A.A. 2009/2010 all’A.A. 2018/2019, titolare del corso di Informatica di base 1, Corso di laurea in Scienze della comunicazione, Università degli studi di Bergamo.

Dall'A. A: 2013/2014 all'A.A 2015/16, laboratorio di preparazione alla stesura della prova finale, Corso di laurea in Scienze dell'educazione, Università degli studi di Bergamo.

A.A: 2013/2014, laboratorio di Nuove tecnologie per l'apprendimento, Corso di formazione per il conseguimento della specializzazione per le attività di sostegno, Università degli studi di Bergamo.

Dall'A.A. 2007/2008 all'A.A. 2008/2009, titolare del corso di Informatica per le discipline umanistiche 2, Corso di laurea in Comunicazione di massa pubblica e istituzionale, Università degli studi di Bergamo.

Dall'A.A. 2007/2008 all'A.A. 2008/2009, titolare del corso di Informatica generale 2, Corso di laurea in Comunicazione di massa pubblica e istituzionale, Lingue e Letterature Straniere, Università degli studi di Bergamo.

A.A. 2002-2003, esercitazioni per il corso di Algoritmi e Strutture Dati Complementi per il Corso di Laurea in Informatica, Università degli Studi di Milano-Bicocca.

A.A. 2002-2003, laboratorio del corso di Elementi di programmazione per il Master in Bioinformatica, Università degli Studi di Milano-Bicocca.

A.A. 2001-2002, laboratorio del corso di Elementi di programmazione per il Master in Bioinformatica, Università degli Studi di Milano-Bicocca.

ATTIVITÀ DI SUPERVISORE

È stato relatore e correlatore di diverse tesi di Laurea Specialistica/Magistrale in Comunicazione ed Editoria Multimediale e in Comunicazione, Informazione ed Editoria presso l'Università degli Studi di Bergamo.

È stato relatore di tre tesi di Laurea Magistrale in Ingegneria Informatica presso l'Università degli Studi di Bergamo.

È stato relatore di oltre duecento prove finali di Laurea triennale in Scienze della Comunicazione, Comunicazione di massa pubblica e istituzionale, Comunicazione interculturale per la cooperazione e l'impresa, presso l'Università degli Studi di Bergamo.

È stato correlatore di alcune tesi di Laurea Specialistica in Informatica presso l'Università degli Studi di Milano-Bicocca.

ATTIVITÀ ORGANIZZATIVE

Program committee Co-Chair of: *8th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2015)*, *11th International*

Conference on Algorithmic Aspects in Information and Management (AAIM 2016), 10th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2017), 11th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2018) 12th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2019), Track on Foundations of Algorithmic Computational Biology - 46th International Conference on Current Trends in Theory and Practice of Informatics (SOFSEM 2020), 13th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2020) Track on Foundations of Algorithmic Computational Biology - 47th International Conference on Current Trends in Theory and Practice of Informatics (SOFSEM 2021), Tracks on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2021, Tracks on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2022, Tracks on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2023, Tracks on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2024, Tracks on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2025.

Program committee member of: 19th edition of Computing - the Australasian Theory Symposium (CATS 2013), 8th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2015), 9th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2016), 11th International Conference on Algorithmic Aspects in Information and Management (AAIM 2016), 10th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2017), 24th International Symposium on String Processing and Information Retrieval (SPIRE 2017), 11th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2018), 12th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2019), Track on Foundations of Algorithmic Computational Biology - 46th International Conference on Current Trends in Theory and Practice of Informatics (SOFSEM 2020), 13th Workshop on Biomedical and Bioinformatics Challenges for Computer Science (BBC 2020) Track on Foundations of Algorithmic Computational Biology - 47th International Conference on Current Trends in Theory and Practice of Informatics (SOFSEM 2021), Track on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2021, Track on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2022, IEEE CIBCB 2022 Track on Candidate Solution Representation and Fitness Landscape Manipulation, Track on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2023, Bioinformatics 2024, Track on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2024, Tracks on Biomedical and Bioinformatics Challenges for Computer Science - ICCS 2025, International Workshop on Combinatorial Algorithms - IWOCA 2025.

Editorial board, *Open Computer Science*, 2016 - .
Editorial board, *International Journal of Computational Mathematics*, 2014 - 2016.
Editorial board, *ISRN Combinatorics*, 2012 - 2013.

Organizing Committee of *Alternative Splicing in Animals and Plants - AS-Workshop 2008*, *9th Conference on Computability in Europe (CiE 2013)*, *6th International Conference on Computational Intelligence methods for Bioinformatics and Biostatistics (CIBB 2019)*.

ATTIVITÀ DI REVISORE

Attività di revisore per le riviste *Acta Informatica*, *Algorithmica*, *Algorithms*, *Applied Computing and Informatics*, *Computability*, *Computers in Biology and Medicine*, *Discrete Applied Mathematics*, *Expert System with Applications*, *IEEE/ACM Transaction on Computational Biology and Bioinformatics*, *Information Processing Letters*, *Journal of Combinatorial Optimization*, *Journal of Computer and System Sciences*, *Journal of Computer Science and Technology*, *Journal of Discrete Algorithms*, *Natural Computing*, *Theoretical Computer Science*.

Attività di revisore per le conferenze: *Asia-Pacific Bioinformatics Conference*, *Combinatorial Pattern Matching*, *Computability in Europe*, *International Colloquium on Automata, Languages and Programming*, *International Conference on Algorithms and Complexity*, *International Conference on Research in Computational Molecular Biology*, *International Symposium on Bioinformatics Research and Applications*, *International Symposium on Parameterized and Exact Computation*, *International Symposium on String Processing and Information Retrieval*, *International Workshop on Combinatorial Algorithms*, *Italian Conference on Theoretical Computer Science*, *Latin American Symposium on Theoretical Informatics*, *RECOMB Comparative Genomics Satellite Conference*, *Symposium on Discrete Algorithms*, *Symposium on Experimental and Efficient Algorithms*, *Symposium on Theoretical Aspects of Computing*, *Workshop on Algorithms in Bioinformatics*.

Pubblicazioni

Articoli in riviste internazionali

1. R. Dondi, A. Popa. Exact and approximation algorithms for covering timeline in temporal graphs. *Annals of Operations Research* 351(1): 609-628 (2025)

2. G. Lazzarinetti, R. Dondi, S. Manzoni, I. Zoppis. DLMinTC+: A Deep Learning Based Algorithm for Minimum Timeline Cover on Temporal Graphs. *Algorithms* 18(2): 113 (2025)
3. R. Dondi, M. Lafond. An FPT algorithm for timeline cover. *Journal of Computer and System Sciences*. 154: 103679 (2025)
4. R. Dondi, M. Lafond. On the complexity of temporal arborescence reconfiguration. *Theoretical Computer Science* 1055: 115502 (2025)
5. G. Lazzarinetti, R. Dondi, S. Manzoni, I. Zoppis. An Attention-Based Method for the Minimum Vertex Cover Problem on Complex Networks. *Algorithms* 17(2): 72 (2024)
6. R. Dondi, M. Lafond. On the Tractability of Covering a Graph with 2-Clubs. *Algorithmica* 85(4): 992-1028 (2023)
7. R. Dondi, Danny Hermelin. Computing the k densest subgraphs of a graph. *Information Processing Letters* 179: 106316 (2023)
8. M. M. Hosseinzadeh, M. Cannataro, P. H. Guzzi, R. Dondi. Temporal networks in biology and medicine: a survey on models, algorithms, and tools. *Network Modeling Analysis in Health Informatics and Bioinformatics* 12(1): 10 (2023)
9. R. Dondi, M. M. Hosseinzadeh. Colorful path detection in vertex-colored temporal. *Network Science* 11(4): 615-631 (2023)
10. R. Dondi, P. H. Guzzi, M. M. Hosseinzadeh, M. Milano. Dense subgraphs in temporal social networks. *Social Network Analysis and Mining* 13(1): 128 (2023)
11. R. Dondi. Untangling temporal graphs of bounded degree. *Theoretical Computer Science* 969: 114040 (2023)
12. R. Dondi, G. Mauri, I. Zoppis. On the complexity of approximately matching a string to a directed graph. *Information and Computation* 288: 104748 (2022)
13. M. Gascon, R. Dondi, N. El-Mabrouk. MUL-tree pruning for consistency and optimal reconciliation - complexity and algorithms. *Theoretical Computer Science* 937: 22-38 (2022)
14. R. Dondi, M. M. Hosseinzadeh, P. H. Guzzi. A novel algorithm for finding top-k weighted overlapping densest connected subgraphs in dual networks. *Applied Network Science* 6(1): 40 (2021)

15. A. Baril, R. Dondi, M. M. Hosseinzadeh. Hardness and tractability of the γ -Complete Subgraph problem. *Information Processing Letters* 169: 106105 (2021)
16. R. Dondi, M. M. Hosseinzadeh, G. Mauri, I. Zoppis. Top-k overlapping densest subgraphs: approximation algorithms and computational complexity. *Journal of Combinatorial Optimization* 41(1): 80-104 (2021)
17. R. Dondi, M. M. Hosseinzadeh. Dense Sub-networks Discovery in Temporal Networks. *SN Computer Science* 2(3): 158 (2021)
18. R. Dondi, M. Lafond, C. Scornavacca. Reconciling multiple genes trees via segmental duplications and losses. *Algorithms for Molecular Biology* 14(1): 7:1-7:19 (2019)
19. R. Dondi, G. Mauri, F. Sikora, I. Zoppis. Covering a Graph with Clubs. *Journal of Graph Algorithms and Applications* 23(2): 271-292 (2019)
20. R. Dondi, G. Mauri, I. Zoppis: On the tractability of finding disjoint clubs in a network. *Theoretical Computer Science* 777: 243-251 (2019)
21. M. Castelli, R. Dondi, G. Mauri, Italo Zoppis. Comparing incomplete sequences via longest common subsequence. *Theoretical Computer Science* 796: 272-285 (2019)
22. R. Dondi, F. Sikora. Finding disjoint paths on edge-colored graphs: more tractability results. *Journal of Combinatorial Optimization* 36(4): 1315-1332 (2018)
23. R. Dondi, F. Sikora. Parameterized complexity and approximation issues for the colorful components problems. *Theoretical Computer Science* 739: 1-12 (2018)
24. R. Dondi, M. Lafond, N. El-Mabrouk. Approximating the correction of weighted and unweighted orthology and paralogy relations. *Algorithms for Molecular Biology* 12(1): 4:1-4:15 (2017)
25. S. Beretta, M. Castelli, R. Dondi. Parameterized Tractability of the Maximum-duo Preservation String Mapping Problem. *Theoretical Computer Science* 646: 16-25 (2016)
26. P. Bonizzoni, R. Dondi, G. W. Klau, Y. Pirola, N. Pisanti, S. Zaccaria. On the Minimum Error Correction Problem for Haplotype Assembly in Diploid and Polyploid Genomes. *Journal of Computational Biology* 23(9): 718-736 (2016)

27. Y. Pirola, S. Zaccaria, R. Dondi, G. W. Klau, N. Pisanti, P. Bonizzoni. HapCol: Accurate and Memory-Efficient Haplotype Assembly from Long Reads. *Bioinformatics* 32(11): 1610-1617 (2016)
28. M. Lafond, R. Dondi, N. El-Mabrouk. The Link between Orthology Relations and Gene Trees: A Correction Perspective. *Algorithms for Molecular Biology* 11: 4, 1-13, (2016)
29. S. Beretta, M. Castelli, R. Dondi. Correcting Gene Tree by Removal and Modification: Tractability and Approximability. *Journal of Discrete Algorithms* 33: 115-129 (2015)
30. P. Bonizzoni, R. Dondi, G. Mauri, I. Zoppis. Restricted and Swap Common Superstring: A Multivariate Algorithmic Perspective. *Algorithmica*, 72(4): 914-939 (2015)
31. C. Batini, P. Bonizzoni, M. Comerio, R. Dondi, Y. Pirola, F. Salandra. A Clustering Algorithm for Planning the Integration Process of a Large Number of Conceptual Schemas. *Journal of Computer Science and Technology* 30(1): 214-224 (2015)
32. L. Bulteau, A. P. Carrieri, R. Dondi. Fixed-parameter Algorithms for Scaffold Filling. *Theoretical Computer Science* 568: 72-83 (2015)
33. M. Lafond, C. Chauve, R. Dondi, N. El-Mabrouk. Polytoamy Refinement for the Correction of Dubious Duplications in Gene Trees. *Bioinformatics* 30(17): 519-526 (2014)
34. R. Dondi, N. El-Mabrouk, K. M. Swenson. Gene Tree Correction for Reconciliation and Species Tree Inference: Complexity and Algorithms. *Journal of Discrete Algorithms* 25: 51-65, 2014.
35. G. Blin, P. Bonizzoni, R. Dondi, R. Rizzi, F. Sikora. Complexity Insights of the Minimum Duplication Problem. *Theoretical Computer Science* 530: 66-79, 2014.
36. P. Bonizzoni, R. Dondi, Y. Pirola. Maximum Disjoint Paths on Edge-Colored Graphs: Approximability and Tractability. *Algorithms* 6(1): 1-11, 2013.
37. P. Bonizzoni, G. Della Vedova, R. Dondi, Y. Pirola. Parameterized Complexity of k-Anonymity: Hardness and Tractability. *Journal of Combinatorial Optimization* 26(1): 19-43, 2013.
38. R. Dondi. The Constrained Shortest Common Supersequence Problem. *Journal of Discrete Algorithms* 21: 11-17, 2013.

39. R. Dondi, G. Fertin, S. Vialette. Finding Approximate and Constrained Motifs in Graphs. *Theoretical Computer Science* 483: 10-21, 2013
40. R. Dondi, G. Mauri, I. Zoppis. The l-Diversity Problem: Tractability and Approximability. *Theoretical Computer Science* 511: 159-171, 2013.
41. R. Dondi. New Results for the Longest Haplotype Reconstruction Problem. *Discrete Applied Mathematics* 160(9): 1299-1310, 2012.
42. G. Blin, P. Bonizzoni, R. Dondi, F. Sikora. On the Parameterized Complexity of the Repetition Free Longest Common Subsequence Problem. *Information Processing Letters* 112(7): 272-276, 2012.
43. P. Bonizzoni, G. Della Vedova, R. Dondi. A Randomized PTAS for the Minimum Consensus Clustering with a Fixed Number of Clusters. *Theoretical Computer Science* 429: 36-45, 2012.
44. P. Bonizzoni, C. Braghin, R. Dondi, G. Trucco. The Binary Perfect Phylogeny with Persistent Characters. *Theoretical Computer Science* 454: 51-63, 2012.
45. P. Bonizzoni, G. Della Vedova, R. Dondi. Anonymizing Binary and Small Tables is Hard to Approximate. *Journal of Combinatorial Optimization* 22(1): 97-119, 2011.
46. R. Dondi, G. Fertin, S. Vialette. Complexity Issues in Vertex-Colored Graph Pattern Matching. *Journal of Discrete Algorithms* 9(1): 82-99, 2011.
47. P. Bonizzoni, G. Della Vedova, R. Dondi, G. Mauri. Fingerprint Clustering with Bounded Number of Missing Values. *Algorithmica* 58(2): 282-303, 2010.
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