

FERDINANDO CICALESE
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TITOLI DI STUDIO

Dottorato in Informatica, Università degli Studi di Salerno, 2001

Laurea in Informatica, Università degli Studi di Salerno, 1995

POSIZIONI ACCADEMICHE

Professore Ordinario, Dipartimento di Informatica, Università degli Studi di Verona, 2022 -

Professore Associato, Dipartimento di Informatica, Università degli Studi di Verona, 2014 - 2022

Professore Associato, Dipartimento di Informatica ed Applicazioni., Università degli Studi di Salerno, Italia 2006 - 2014

Research Group Leader, “Combinatorial Search Algorithms in Bioinformatics”, Faculty of Technology, Bielefeld University, Germania 2004 - 2009

Ricercatore Universitario, Dipartimento di Informatica ed Applicazioni., Università degli Studi di Salerno, Italia 2001 - 2006

PREMI e GRANTS

ISAAC 2015 - Best paper Award per l'articolo *Trading off Worst and Expected Cost in Decision Tree Problems*, in collaborazione con A. Saettler e E. Laber, 2015

Sofja Kovalevskaia Award 2004, per il progetto *Combinatorial Search Algorithms in Bioinformatics*. Premio dell' Alexander von Humboldt Foundation and the German Federal Ministry of Education and Research, assegnato ogni due anni a circa 10 giovani ricercatori di ogni nazionalità e disciplina, per condurre ricerca per 5 anni presso un'università tedesca. Success rate $\sim 10 - 15\%$.

Best Italian PhD Thesis in Theor. Comp. Science, premio per una delle due migliori tesi di dottorato in informatica teorica, del Capitolo Italiano dell'EATCS, 2001

GRANTS e BORSE DI STUDIO

European Research Council - Consolidator Grant 2013, research project on *Infomics - Algorithms and Methodological Tools for Information Management in the -omics Sciences* (Euro 1144 800), selected for the second stage by panel PE6-Computer Science and Informatics (selection rate 14%). The project was not funded.

ZiF Cooperation Group Programme, grant size: **50 000 Euro**, Center for Interdisciplinary Research (ZiF), Bielefeld, 2010 - 2013 (Principal Investigator)

Granting scheme of Univ. of Salerno and the Provinces of Salerno and Avellino, 4 month grant awarded for a joint project with Freie Universität and Humboldt Universität Berlin, 2012

DAAD fellowship, Visiting researcher at Department of Computer Science, Freie Universität Berlin, Germany, 2 months, 2011

Marie Curie fellowship, Visiting professor at Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary, 6 months, EU-FP6 ToK *HUBI: Hungarian Bioinformatics*, 2009 - 2010

DFG Research Grant, *Advances in Search and Sorting*, grant size: **120 000 Euro**, Deutsche Forschungsgemeinschaft, 2007 - 2010 (cooperation partner)

Sofja Kovalevskaja Award, grant size **700 000 Euro**, Alexander von Humboldt Foundation and German Federal Ministry of Education and Research, 2004 - 2009 (Principal Investigator)

Marie Curie fellowship, EU Research Training Network *COMBSTRU: Combinatorial Structure of Intractable Problems*, 2 year contract, interrupted for taking up the research group leadership in Bielefeld, 2004

DAAD fellowship for a project on *Algorithms in Bioinformatics*, visiting researcher at Center for Biotechnology, Bielefeld University, Germany, 6 weeks, 2004

ZiF fellowship, Visiting researcher at the Bielefeld Center for Interdisciplinary Research (ZiF), within the Research Group *General Theory of Information Transfer and Combinatorics*, 2002 - 2003

COST Action fellowship, Visiting researcher at Faculty of Informatics, Vienna University of Technology, 6 weeks, 2000

CNR fellowship, Italian Council of Research fellowship for a research visit to Middlesex University, London, UK, 8 months, 1995 - 1996

Erasmus fellowship, Middlesex University, London, UK, 3 months, 1993

RESPONSABILITÀ SCIENTIFICHE

a. Chair e PC-membership in Conferenze di rilevanza internazionale

- **ICLR 2022**, 10th Intl. Conf. Learning Representations, Virtual-only Conference, 25-29 Apr. 2022
- **NeurIPS 2021**, 35th Conf. on Neural Information Processing Systems, Virtual-only Conference, 6-14 Dec. 2021.
- **ICML 2021**, 38th Intl. Conf. on Machine Learning, Virtual-only Conference, 18-24 July 2021.
- **NeurIPS 2020**, 34th Conf. on Neural Information Processing Systems, Vancouver, Canada, 6-12 Dec. 2020.
- **ICML 2020**, 37th Intl. Conf. on Machine Learning, Vienna, Austria, 12-18 July 2020.
- **LATIN 2020**, 14th Latin American Theoretical Informatics Symposium, São Paulo, Brazil, 25-29 May 2020
- **AAIM 2016**, 11th Intl. Conf. on Algorithmic Aspects of Information and Management, Bergamo, Italy, 18-20 July 2016
- **CPM 2015**, 26th Annual Symp. on Combinatorial Pattern Matching, Ischia, Italy, 29 June-1 July 2015 (**co-chair**)
- **SPIRE 2014**, 21st Intl. Symp. on String Processing and Information Retrieval, Ouro Preto, Minas Gerais, Brazil, 20-23 Oct. 2014
- **ICTCS 2014**, 15th Italian Conf. on Theoretical Computer Science, Perugia, Italy, 17-19 Sep. 2014
- **FCT 2013**, 19th Intl. Symp. on Fundamentals of Computation Theory, Liverpool, United Kingdom, 19-21 Aug. 2013
- **Search Methodologies III**, ZiF - Center for Interdisciplinary Research, Bielefeld, Germany, 3-7 Oct. 2012 (**co-chair**)
- **CPM 2012**, 23rd Annual Symp. on Combinatorial Pattern Matching, Helsinki, Finland, 3-5 July 2012
- **SOFSEM 2012**, 38th Intl. Conf. on Current Trends in Theory and Practice of Computer Science, Špindlerův Mlýn, Czech Republic, 21-27 Jan. 2012

- **ICALP2011GT**, Algorithms and data structures for selection, identification and encoding, ICALP 2011 Workshop, Zurich, Switzerland, 3 July 2011 (**co-chair**)
- **CCP 2011**, Intl. Conf. on Data Compression, Communication, and Processing, Palinuro, Italy, 21-24 June 2011
- **Search Methodologies II**, ZiF - Center for Interdisciplinary Research, Bielefeld, Germany, 25-29 Oct. 2010 (**co-chair**)
- **Search Methodologies**, Dagstuhl Seminar 0928, Leibniz-Zentrum für Informatik, Germany, 5-10 July 2009 (**co-chair**)
- **LATIN 2008**, Latin American Theoretical Informatics Symposium, Buzios, Rio de Janeiro, Brazil, 7-11 Apr. 2008
- **CASB 2006**, Intl. Conf. on Computational and Systems Biology, Dallas, USA 13-14 Nov. 2006
- **COSSAC 2001**, Combinatorics of Searching, Sorting & Coding, Ischia, Italy, 7-9 Sep. 2001 (**co-chair**)
- **SMI '96**, Intelligent Multimedia Systems, Ravello, Italy, 13-15 Nov. 1996

b. Attività di editore associato

- **Algorithmica**, special issue on *Combinatorial Pattern Matching*, vol. 79 (3), 2017, pp. 797-883
- **Algorithmica**, special issue on *Group Testing and Compressed Sensing*, vol. 67 (3), 2013
- **Lecture Notes in Computer Science Festschrift, Information Theory, Combinatorics and Search Theory**, vol. 7777, 2013
- **Discrete Applied Mathematics**, special issue on *Combinatorics of Searching, Sorting, and Coding*, vol. 137 (1), 2004

c. Attività di revisione

- **International Science Institutions.** I regularly serve as external expert reviewer for the following institutions: US National Science Foundation (NSF), US National Security Agency (NSA), United States-Israel Binational Science Foundation (BSF), Italian Ministry for Education, University, and Research (MIUR), Science Foundation Ireland (SFI), Swiss National Science Foundation (SNSF)
- **International journals:** I regularly serve as referee for ACM Transactions on Algorithms, Algorithmica, Central European Journal of Mathematics, Computers and Operations Research, Discrete Applied Mathematics, IEEE/ACM Transactions on Computational Biology and Bioinformatics, IEEE Transactions on Industrial Applications, IEEE Transactions on Information Theory, Information Processing Letters, Journal of Combinatorial Theory, Journal of Discrete Algorithms, Machine Learning, SIAM Journal on Computing, Soft Computing, Theoretical Computer Science, and others
- **International conferences:** I regularly serve as a referee for ESA, ICALP, ICML, ICTCS, ISAAC, ISIT, LATIN, MICALI, MFCS, NeurIPS, SIROCCO, SODA, STACS, STOC, WABI, and others

d. Conduzione di progetti e gruppi di ricerca

• **Progetti Internazionali:**

Search Methodologies, ZiF Cooperation Group Programme, 3 years, **Principal Investigator**, funded by Center for Interdisciplinary Research (ZiF), Bielefeld, Germany, 2010-2013

Combinatorial Search Algorithms in Bioinformatics, 5 years, **Principal Investigator**, University of Bielefeld, funded by Alexander von Humboldt Foundation and German Federal Ministry of Education and Research, 2004 - 2009

Advances in Search and Sorting, 3 years, **cooperation partner**, funded by German Research Foundation (DFG), 2007-2010

Approximation and Randomized Algorithms in Communication Networks (ARACNE), 3 years, funded by European Union FP6-RTN, 2000-2003

- **Progetti Nazionali:**

Flussi di informazione in reti sociali, 2 years, Univ. of Salerno, 2013

Analisi di Strutture e Dinamiche in Reti Complesse, 2 years, Univ. of Salerno, 2012

Problemi Algoritmici e Computazionali in Reti Sociali, 2 years, Univ. of Salerno, 2011

Studio della diffusione di Informazioni, Comportamenti e Dinamiche in Reti Complesse, 2 years, Univ. of Salerno, 2010

Problemi algoritmici e sistemistici in reti sociali, 2 years, Univ. of Salerno, 2009

Ricerca in gross moli di dati, 2 years, Univ. of Salerno, 2008

Modelli, Architetture ed Applicazioni peer-to-peer, 2 years, Univ. of Salerno, 2007

Comunicazione efficiente in reti wireless, 2 years, Univ. of Salerno, 2006

Utilizzo Efficiente della rete fissa ad alta velocità e di Reti senza fili infrastrutturate, 2 years, PRIN 2001, MIUR, 2001

e. Partecipazione in commissioni di ateneo e altre attività di servizio

- **Programme director of the Phd Programme in Computer Science** at University of Verona, Italy, since 2022
- **Programme director of the Bioinformatics Bachelor degree** at University of Verona, Italy, 2015-2023
- Member of the **scientific committee of the Computer science PhD programme** at University of Verona, Italy, since 2017
- Member of the **scientific committee of the Computer Science and Information Engineering PhD Programme** at University of Salerno, Italy, 2013 - 2016
- Member of the **scientific committee of the Computer Science PhD programme** at University of Salerno, Italy, 2009 - 2012
- Member of the **scientific committee of the Bioinformatics PhD programme** at the University of Benevento, Italy, 2008 - 2009
- Member of the **scientific committee of the International Graduate School in Bioinformatics and Genome Research** at Bielefeld University, Germany, 2005 - 2009
- Member of the **selection committee for the best Italian PhD thesis in theoretical computer science** for the Italian Chapter of EATCS, 2018
- Member of the **selection committee of Computer Science PhD Programme** at University of Verona, 2019
- Member of the **selection committee for AdR3712/21 in Operating Research (MAT/09)**, University of Verona, 2021
- Head of the **selection committee for Associate Researcher (RTD-a) in Computer Science (INF/01)**, University of Verona, 2018

ATTIVITÀ DIDATTICA

Invited Lectures per Istituzioni Internazionali:

- Senior Lecturer per **5th Emléktábla Workshop**, János Bolyai Mathematical Society and Alfréd Rényi Institute of Mathematics, Budapest, Ungheria, 2013
- Invited Lecturer presso **Doctoral School of Mathematics and Computer Science**, University of Primorska, Koper, Slovenia, 2012

Università di Verona:

- *Algorithm Design* (AA 2016/17 - 2023-24), laurea magistrale in lingua inglese “Medical Bioinformatics”

- *Algoritmi per Bioinformatica* (AA 2014/15 - 2019/20); (60 ore), II anno, laurea triennale, 60-80 studenti
- *Complessità* (dall'AA 2014/15 ad oggi); I anno della Laurea Magistrale, 40-60 studenti
- *Metodi Informazionali* (AA 2020/21, 2021/22); (56 hours), II anno laurea triennale, 30-50 studenti
- *Computational Game Theory* (dall' AA 2021/22 ad oggi); Laurea Magistrale, 10-20 students, sole responsible

Università di Salerno:

- *Reti di Calcolatori* (AA 2013/14), Laurea Triennale in Informatica
- *Sistemi Operativi* (AA 2008/9, 2009/10, 2010/11, 2011/12), Laurea Triennale in Informatica
- *Informatica di Base* (AA 2000/1, 2001/2, 2010/11); Laurea Triennale in Informatica
- *Strumenti della Teoria dell'Informazione* (AA 2002/3, 2003/4, 2006/7, 2007/8, 2008/9, 2009/10), Laurea Magistrale in Informatica
- *Laboratorio di Sistemi Operativi* (AA 2000/1, 2006/7), Laurea Triennale in Informatica
- *Linguaggi di Programmazione I* (AcaYr 2003/4), Laurea Triennale in Informatica
- *Laboratorio di Algoritmi e Strutture Dati* (AA 2000/1), Laurea Triennale in Informatica

Bielefeld University:

- *Advanced algorithmic techniques for Bioinformatics* (AA 2007/8), 3rd year bachelor program Bioinformatics
- *Elements of Combinatorics for Computer Scientists* (AA 2005/6, 2006/7), masters and PhD programs of Bioinformatics and Computer Science
- *Complex Interactions in Molecular Systems: A Game Theoretic Approach* (AA 2005/6), masters and PhD program, Bioinformatics

Per il Pan-European MSc Applied Informatics Programme, Middlesex University of London e Università degli Studi di Salerno:

- *Intelligent Tutoring Systems*, (AA 1994/5) mini corso di un mese (16 hours), masters level

SUPERVISIONE DI TESI

a. Tesi di Laurea triennale

- Eros Rossi, thesis on “Analisi teorica e sperimentale di nuovi approcci ai codici D-ari di Fano”, University of Verona, July 2018
- Davide Bianchin, thesis on “On a generative model of sequences based on approximate duplications”, University of Verona, July 2017

b. Tesi di Laurea Magistrale e Master:

- Matteo Zeggiotti, thesis on “On the complexity of the RDIN Problem”, University of Verona, July 2021
- Andrea Caucchiolo, thesis on “Complexity and Algorithmic Questions on the Directed Intersection Representation of DAGs”, University of Verona, October 2020
- Eros Rossi, thesis on “Symbolwise MAP decoding for Multiple Deletion Channel: heuristics and experiments”, University of Verona, October 2020

c. Tesi di Dottorato

- Andrea Caucchiolo, currently enrolled in the Computer Science Phd Programme, working on *Complexity of intersection representation of directed graphs*
- Dario Ostuni, currently enrolled in the Computer Science Phd Programme, working on *Computer systems for didactics and competitions*

- Massimiliano Rossi, thesis on *Algorithms and Data Structures for Coding, Indexing, and Mining of Sequential Data*, defended on February 17, 2020 at the Department of Computer Science, University of Verona (now PostDoc at University of Florida, US)
- José Amgarten Quitzau, thesis on *Biological Applications for De Bruijn Subgraphs and Interval Group Testing*, defended (top grade) on March 25, 2010 at the Faculty of Technology, Bielefeld University
- Travis Gagie, thesis on *New Algorithms and Lower Bounds for Sequential-Access Data Compression*, defended (top grade) on July 27, 2009 at the Faculty of Technology, Bielefeld University (now professor at Dalhousie University, Canada)
- Christian Heup, thesis on *L-Identification entropy for sources*, defended (with distinction) on December 11, 2006 at the Faculty of Mathematics, Bielefeld University

d. Membro della commissione di valutazione del Dottorato in Informatica di UniVR per : Andrea Caucchiolo (thesis on “Complexity of intersection representation of digraphs”, 2021); Sara Giuliani (thesis on “BWT and string-complexity measures”, 2019-21); Davide Cenzato (thesis on “On the BWT of string collections”, 2019-21); Antonella Mensi (thesis on “Random Forests for Outlier Detection: Methodological Issues and Applications”, 2018-21); Giulio Mazzi (thesis on “Rule-Based Policy Interpretation and Shielding for Partially Observable Monte Carlo Planning”, 2018-21); Matteo Murari (thesis on “A Multi-Agent Approach for Cyber-Security Scenarios”, 2019-20); Riccardo Mengoni (thesis on “Quantum Machine Learning”, 2016-19); Lorenzo Bottarelli (thesis on “Information Gathering Optimization for Environmental Monitoring”, 2015-18)

e. PostDoc Mentor of Hans-Michael Kaltenbach (2006, now research associate at ETH Zürich, Switzerland), Zsuzsanna Lipták (2007-2009, now professor at University of Verona, Italy), Martin Milanič (2007-2009, now professor at University of Primorska, Slovenia), Julia Mixtaki-Zakotnik (2008), Yasmin Rios Solis (2007, now professor at Universidad Autónoma de Nuevo León, Mexico)

f. Referee for PhD Program in Information Engineering, Department of Engineering and Information, University of Brescia, thesis “Information Theoretic View on Risk”, candidate: Giorgio Arici, January 2019

ATTIVITÀ SEMINARIALE (solo presentazioni su invito)

a. Invited talks at International Research Centres and Universities

- **CS colloquium at Bar Ilan university**, Bar Ilan, Israel, Jan. 2022. Talk on *Machine teaching with limited information on the learner*
- **Rényi Institute “Seminar on Search”**, Budapest, Hungary, Dec. 2020. Talk on *Complexity and algorithmic results on a novel information content representation of digraphs*
- **University of Liverpool, Department of Computer Science**, May 2013. Talk on *Combinatorial Search and Decision Trees*
- **PUC-Rio, Department of Computer Science**, Jan. 2013. Talk on *Approximate Pattern Matching with Applications to Bioinformatics*
- **Freie Universität Berlin, Department of Computer Science**, Aug. 2011. Talk on *Competitive analysis of function evaluation in the decision tree model with priced information*
- **University of Ljubljana “Seminar za teorijo grup in kombinatoriko”**, Nov. 2010. Talk on *Searching in partially ordered structures: average-case minimization*
- **University of Primorska “Raziskovalni matematični seminar”**, Nov. 2010. Talk on *Superselectors: Efficient Constructions and Applications*
- **University of Lugano**, Nov. 2009. Talk on *Combinatorial search algorithms for function evaluation*
- **Rényi Institute “Search Seminar”**, Budapest, Oct. 2008. Talk on *Optimal, minimum interaction fault-tolerant search, with lie-costs*
- **Rényi Institute “Combinatorics Seminar”**, Budapest, Sept. 2008. Talk on *Crossing antichains and the Boolean function evaluation*

b. Invited talks at International Conferences and Workshops

- **ISAIM 2014 Intl. Symp. on Artificial Intelligence and Mathematics**, Jan. 2014. Stream on Boolean and pseudo-Boolean Functions. Talk on *Function Evaluation: decision trees optimizing simultaneously worst and expected testing cost*
- **16th EURO - INFORM Joint Intl. Conference**, July 2013. Talk on *Evaluation of Boolean Functions with Non-Uniform Costs: Beyond Monotonicity*
- **IMA Workshop on “Group Testing Designs, Algorithms, and Applications to Biology”**, Feb. 2012. Talk on *Competitive Testing for Evaluating Priced Functions*
- **48th Annual Allerton Conference**, University of Illinois at Urbana-Champaign, Sept. 2010. Talk on *Combinatorial structures for group testing and its applications*
- **Workshop on Data Compression**, Bielefeld, July 2009. Talk on *Searching with little structure*
- **DIMACS-RUTCOR Workshop on Boolean and Pseudo-Boolean Functions**, New Brunswick, Jan. 2009. Talk on *Competitive evaluation of threshold functions and game trees in the priced information model*
- **Dagstuhl Seminar 08301 on “Group testing in the Life Sciences”**, Dagstuhl, July 2008. Talk on *2-Stage Fault-tolerant interval group testing*
- **Expert workshop on “Boolean functions”**, CRI, Haifa, Israel, Jan. 2008. Talk *On the competitive ratio of evaluating priced functions*
- **Mini-conference on Applied Combinatorics**, Columbia, SC, US, Oct. 2007. Talk on *A linear programming approach to the evaluation of priced functions*
- **SIAM Conference on Discrete Mathematics 06**, Victoria, British Columbia, Canada, June 2006. Invited talk on *Searching with lies under error cost constraints*
- **Workshop “Erdős Magic for Algorithms and Games”**, Bertinoro, Italy, Apr. 2005. Talk on *Optimal group testing algorithms with interval queries and their application to splice site detection*
- **Workshop on “Combinatorial Search”**, Budapest, Hungary, Apr. 2005. Talk on *Querying with priced information*
- **Workshop on “Search, Sorting and Coding”**, Bielefeld, Germany, Oct. 2000. Talk on *Search with delays and erasure-errors*
- **Conference on “Search and Communication Complexity”**, Balatonlelle, Hungary, July 2000. Talk on *New results on the Ulam-Rényi game*

c. Contributed talks at International Conferences and Workshops

I was speaker at the following conferences for presenting one of my papers (see list of publications): IWOCA2021, COCOON2020, ISIT2020, ICML2019, ISIT2019, ISIT2018, ISIT2017, ISAIM2014, SPIRE2013, CiE2013, CPM2012, FUN2012, WADS2011, FCT2011, ESA2010, IWOCA2010, ICALP2008, ISAAC2007, ISAAC2006, ESA2005, STOC2005, ISAAC2003, FUN2001, ISAAC2000, COCOON2000, ISIT2000, ESA1999, ICTCS'98, WILF'97, ISFL'97

CONOSCENZE LINGUISTICHE

Italiano, *lingua madre*; English, *fluent*; German, *fair*; Hungarian, *fair*

PUBBLICAZIONI

Monografie

1. F. Cicalese, **Fault Tolerant Search Algorithms**, Series: *Monographs in Theoretical Computer Science. An EATCS Series*, ISBN: 978-3-642-17326-4, Springer–Verlag, 2013.

Contributi in Volumi Monografici

2. F. Cicalese, F. Montagna, *Ulam-Rényi Game Based Semantics for Fuzzy Logics*, in: **Handbook of Mathematical Fuzzy Logic (Studies in Logic)**, P. Cintula, C. Fermüller, C. Noguera (Eds.), College Publications, pp. 1029–1062, 2015.
3. F. Cicalese, D. Mundici, *Recent developments of feedback coding, and its relations with many-valued logic*, in: **Proof, Computation and Agency - Logic at the Crossroads**, J. van Benthem, A. Gupta, R. Parikh (Eds.), Springer–Verlag, Synthese Library 352, pp 115–131, 2011.
4. F. Cicalese, C. Deppe, *Q-ary Ulam-Rényi game with constrained lies*, in: **General Theory of Information Transfer and Combinatorics**, R. Ahlswede (Ed.), Lecture Notes in Computer Science, Springer–Verlag, Vol. 4123, pp. 663-679 2006.
5. F. Cicalese, D. Mundici, *Learning and the Art of Fault-tolerant Guesswork*, in: **Adaptivity and Learning - An Interdisciplinary Debate**, R. Khün, R. Menzel, W. Menzel, U. Ratsch, M.M. Richter, I.O. Stamatescu (Eds.), Springer-Verlag, pp. 115-140, 2003.
6. F. Cicalese, D. Mundici, U. Vaccaro, *Rota-Metropolis cubic logic and Ulam-Rényi games*, in: **Algebraic Combinatorics and Computer Science - A Tribute to Giancarlo Rota**, D. Senato and H. Crapo (Eds.), Springer–Verlag, pp. 197-244, 2000.

Volumes Curati

7. **Combinatorial Pattern Matching - 26th Annual Symposium, CPM 2015**, Lecture Notes in Computer Science, vol. 9133, 2015 (co-edited with E. Porat and U. Vaccaro).
8. **Group Testing and Compressed Sensing**, *Special Issue of Algorithmica*, vol. 67, Issue 3, 2013 (co-edited with E. Porat)
9. **Information Theory, Combinatorics, and Search Theory**, Lecture Notes in Computer Science, vol. 7777, 2013 (co-edited with H. Aydinian and C. Deppe).
10. **Search Methodologies**, *Dagstuhl Seminar Proceedings*, vol. 09281, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, Germany, 2009 (co-edited with R. Ahlswede and U. Vaccaro).
11. **1st International Workshop on Combinatorics of Searching, Sorting, and Coding (COSSAC'01)**. *Special Issue of Discrete Applied Mathematics*, vol. 137, Issue 1, 2004 (co-edited with D. Mundici and U. Vaccaro).

Su Riviste Internazionali

12. M. Bicego, F. Cicalese, *Computing Random Forest-distance in the presence of missing data*, **ACM Transactions on Knowledge Discovery from Data**, vol. 18, n. 180:1-18, 2024.
13. M. Bicego, F. Cicalese, A. Mensi, *RatioRF: a novel measure for Random Forest clustering based on the Tversky's ratio model*, **IEEE Transactions on Knowledge and Data Engineering Theory**, vol. 35, pp. 830-841, 2023.
14. A. Caucchiolo, F. Cicalese, *Hardness and approximation of multiple sequence alignment with column score*, **Theoretical Computer Science**, vol. 946, pp. 113683, 2023.
15. F. Cicalese, E. Laber, *On the star decomposition of a graph: Hardness results and approximation for the max-min optimization problem*, **Discrete Applied Mathematics**, vol. 289, pp 503-515, 2021.
16. F. Cicalese, Zs. Lipták, M. Rossi, *On infinite prefix normal words*, **Theoretical Computer Science**, vol. 859, pp. 134-148, 2021.
17. F. Cicalese, E. Laber, *Information Theoretical Clustering is Hard to Approximate*, **IEEE Transactions on Information Theory**, vol. 67 (1), pp. 586-597, 2021.
18. F. Cicalese, M. Rossi, *On the multi-interval Ulam-Rényi game: For 3 lies 4 intervals suffice*, **Theoretical Computer Science**, vol. 809, pp. 339-356, 2020.

19. F. Cicalese, L. Gargano, U. Vaccaro, *Minimum-Entropy Coupling and Their Applications*, **IEEE Transactions on Information Theory**, vol. 65 (6), pp. 3436-3451, 2019.
20. H.K. Aydinian, F. Cicalese, C. Deppe, V.S. Lebedev, *A Combinatorial Model of Two-Sided Search*, **International Journal of Foundation of Computer Science**, vol. 29 (4), pp. 481-504, 2018.
21. F. Cicalese, Zs. Lipták, M. Rossi, *Bubble-Flip – A new generation algorithm for prefix normal words*, **Theoretical Computer Science**, vol. 743, pp. 38-52, 2021.
22. F. Cicalese, L. Gargano, U. Vaccaro, *Bounds on the entropy of a function of a random variable and their applications*, **IEEE Transactions on Information Theory**, vol. 64 (4), pp. 2220-2230, 2018.
23. F. Cicalese, E. Laber, A. Saettler, *Decision Trees for Function Evaluation: Simultaneous Optimization of Worst and Expected Cost*, **Algorithmica**, vol. 79 (3), pp 763-796, 2017.
24. A. Saettler, E. Laber, F. Cicalese, *Trading Off Worst and Expected Cost in Decision Tree Problems*, **Algorithmica**, vol. 79 (3), pp 886-908, 2017.
25. F. Cicalese, B. Keszegh, B. Lidický, D. Pálvölgyi, T. Valla, *On the tree search problem with non-uniform costs*, **Theoretical Computer Science**, vol. 647, pp. 22-32, 2016.
26. F. Cicalese, M. Milanič, R. Rizzi, *On the complexity of the vector connectivity problem*, **Theoretical Computer Science**, vol. 591, pp. 60-71, 2015.
27. F. Cicalese, E. Laber, A. Saettler, *Approximating decision trees with value dependent testing costs*, to appear in **Information Processing Letters**, vol. 115, pp. 594-599, 2015.
28. F. Cicalese, G. Cordasco, L. Gargano, M. Milanič, G. Peters, U. Vaccaro, *Spread of Influence in Weighted Networks under Time and Budget Constraints*, **Theoretical Computer Science**, vol. 586, pp. 40-58, 2015.
29. F. Cicalese, T. Jacobs, E. Laber, M. Molinaro, *Improved Approximation Algorithms for the Average-Case Tree Searching Problem*, **Algorithmica**, vol. 68 (4), pp 1045-1074, 2014.
30. F. Cicalese, *Perfect Strategies for the Ulam-Rényi Game with Multi-interval Questions*, **Theory of Computing Systems**, vol. 54, pp. 578–594, 2014.
31. F. Cicalese, G. Cordasco, L. Gargano, M. Milanič, U. Vaccaro, *Latency-bounded target set selection in social networks*, **Theoretical Computer Science**, vol. 535, pp. 1-15, 2014.
32. F. Cicalese, E. Laber, O. Weimann, R. Yuster, *Approximating the Maximum Consecutive Subsums of a Sequence*, **Theoretical Computer Science**, vol. 525, pp. 130-137, 2014.
33. F. Cicalese, M. Milanič, U. Vaccaro, *On the approximability and exact algorithms for vector domination and related problems in graphs*, **Discrete Applied Mathematics**, vol. 161, pp. 750-767, 2013.
34. F. Cicalese, T. Jacobs, E. Laber, C. Valentim, *The Binary Identification Problems for Weighted Trees*, **Theoretical Computer Science**, vol. 459, pp. 100–112, 2012.
35. F. Cicalese, P.L. Erdős, Zs. Lipták, *A Linear Algorithm for String Reconstruction in the Reverse Complement Equivalence Model*, **Journal of Discrete Algorithms**, vol. 14, pp. 37–54, 2012.
36. P. Burcsi, F. Cicalese, G. Fici, Zs. Lipták, *On Approximate Jumbled Pattern Matching in Strings*, **Theory of Computing Systems**, vol. 50, pp. 35–51, 2012.
37. F. Cicalese, M. Milanič, *Graphs of separability at most two*, **Discrete Applied Mathematics**, vol. 160, pp. 685–696, 2012.
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Verona, September 11, 2024**Ferdinando Cicalese****DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE
E/O SOSTITUTIVA DELL'ATTO DI NOTORIETÀ**

Il sottoscritto Ferdinando Cicalese, nato a Sarno (SA) il 31 Maggio 1972 e residente in Verona, via B. Giuliali 2/F, telefono 3204640713, codice fiscale CCLFDN72E31I438C

DICHIARA

che tutti i fatti e gli stati indicati nel curriculum sono da ritenersi dichiarati ai sensi e per gli effetti degli artt. 46 e/o 47 del D.P.R. 445/2000, con consapevolezza delle sanzioni penali nel caso di dichiarazioni non veritieri e falsità negli atti, richiamate dall'art. 76 del DPR 445/2000.

Verona, September 11, 2024**Ferdinando Cicalese**