

COMPLETE LIST OF PUBLICATIONS

I have published more than 120 scientific articles, most appeared in top-tier international peer-reviewed journals, e.g., Journal of the ACM (probably the most prestigious journal in Computer Science), IEEE Transactions on Information Theory (the most representative and competitive journal in information theory)¹, Algorithmica, Theoretical Computer Science (two of the reference journals for the algorithmic community in theoretical computer science). My articles have been presented at some of the highest ranked conferences e.g., STOC, ICALP (top venues for papers in theory of computation), NeurIPS, ICML, IJCAI (most competitive conferences in machine learning and AI), SODA and ESA (the flagship American and European conferences in algorithms).

Book

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.

Book Chapters

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. Kühn, 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 Edited

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).

In Journals

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.

¹According to a 2006 Page rank study, IEEE Transactions on Information Theory was deemed the most prestigious among hundreds of computer science related journals and the leading one in coding theory and information theory.

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.

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42. F. Cicalese, M. Milanič, *Competitive Evaluation of Threshold Functions in the Priced Information Model*, **Annals of Operations Research**, vol. 188 (1), pp. 111–132, 2011.
43. F. Cicalese, F. Manne, Q. Xin, *Faster Centralized Communication in Radio Networks*, **Algorithmica**, vol. 54 (2), pp. 226-242, 2009.
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61. F. Cicalese, A. Gisolfi, *Classifying through a fuzzy algebraic structure*, **Fuzzy Sets and Systems**, Vol. 78, pp. 317-331, 1996.

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62. L. Marzari, D. Corsi, E. Marchesini, A. Farinelli, F. Cicalese, *Enumerating Safe Regions in Deep Neural Networks with Provable Probabilistic Guarantees*, in: Proc. of the 38th Annual AAAI Conference on Artificial Intelligence (**AAAI 2024**), pp. 21387-21394, 2024.
63. F. Cicalese, F. Ugazio, *On the Complexity and Approximation of Bounded Access Lempel Ziv Coding*, in: Proc. of the 28th International Conference on Developments in Language Theory (**DLT 2024**), Lecture Notes in Computer Science, Vol. 14791, pp. 114-130, 2024.
64. L. Marzari, D. Corsi, F. Cicalese, A. Farinelli, *The #DNN-Verification Problem: Counting Unsafe Inputs for Deep Neural Networks*, in: Proc. of the 32nd International Joint Conference on Artificial Intelligence (**IJCAI 2023**), pp. 217-224, 2023.
65. M. Bicego, F. Cicalese, *On the Good Behaviour of Extremely Randomized Trees in Random Forest-Distance Computation*, in: Proc. of the Joint European Conference on Machine Learning and Knowledge Discovery in Databases (**ECML PKDD 2023**), Lecture Notes in Computer Science, Vol. 14172, pp. 645-660, 2023.
66. V. Feitosa Souza, F. Cicalese, E. Sany Laber, M. Molinaro, *Decision Trees with Short Explainable Rules*, in: Proc. of the 36th Conference on Neural Information Processing Systems (**NeurIPS 2022**), 2022.
67. A. Mensi, F. Cicalese, M. Bicego, *Using Random Forest Distances for Outlier Detection*, in: Proc. of the 21st International Conference on Image Analysis and Processing (**ICIAP 2022**), Lecture Notes in Computer Science, Vol. 13233, pp. 75-86, 2022.
68. F. Cicalese, C. Dallard, M. Milanic, *On Constrained Intersection Representations of Graphs and Digraphs*, in: Proc. of the 33rd Intl. Symposium on Algorithms and Computation, (**ISAAC2022**), LIPIcs, vol. 248, 38:1 - 38:15, 2022
69. M. Raniero, M. Bicego, F. Cicalese, *Distance-Based Random Forest Clustering with Missing Data*, in: Proc. of the 21st International Conference on Image Analysis and Processing (**ICIAP 2022**), Lecture Notes in Computer Science, Vol. 13233, pp. 121-132, 2022.
70. A. Caucchiolo, F. Cicalese, *On the Intractability Landscape of Digraph Intersection Representations*, in: Proc. of the 33rd International Workshop on Combinatorial Algorithms (**IWOCA 2022**), Lecture Notes in Computer Science, Vol. 13270, pp. 270-284, 2022.
71. F. Cicalese, N. Pilati, *The Tandem Duplication Distance Problem is Hard over Bounded Alphabets*, in: Proc. of the 32nd International Workshop on Combinatorial Algorithms (**IWOCA 2021**), Lecture Notes in Computer Science, Vol. 12757, pp. 179-193, 2021.
72. F. Cicalese, M. Rossi, *On the Redundancy of D-ary Fano Codes*, in: Proc. of the 47th Intl. Conference on Current Trends in Theory and Practice of Computer Science (**SOFSEM 2021**), Lecture Notes in Computer Science, Vol. 12607, pp. 263-277, 2021.
73. A. Caucchiolo, F. Cicalese, *On the Complexity of Directed Intersection Representation of DAGs*, in: Proc. of the 26th Annual International Computing and Combinatorics Conference (**COCOON 2020**), Lecture Notes in Computer Science, Vol. 12273, pp. 554-565, 2020.
74. F. Cicalese, S. Filho, E. Laber, M. Molinaro, *Teaching with Limited Information on the Learner’s Behaviour*, in: Proc. of the 36th International Conference on Machine Learning (**ICML 2020**), pp. 2016-2026, 2020.
75. F. Cicalese, E. Rossi, *On D-ary Fano Codes*, in: Proc. of International Symposium in Information Theory (**ISIT 2020**), IEEE Press, pp. 2365-2370, 2020.

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77. F. Cicalese, L. Gargano, U. Vaccaro, *An information Theoretic Approach to Probability Mass Function Truncation*, in: Proc. of International Symposium in Information Theory (**ISIT 2019**), IEEE Press, pp. 702-706, 2019.
78. F. Cicalese, Zs. Lipták, M. Rossi, *On Infinite Prefix Normal Words*, in: Proc. of the 45th Intl. Conference on Current Trends in Theory and Practice of Computer Science (**SOFSEM 2019**), Lecture Notes in Computer Science, Vol. 11376, pp. 122-135, 2019.
79. F. Cicalese, U. Vaccaro, *Maximum Entropy Interval Aggregations*, in: Proc. of International Symposium in Information Theory (**ISIT 2018**), IEEE Press, pp. 1764-1768, 2018.
80. F. Cicalese, Zs. Lipták, M. Rossi, *Bubble-Flip - A New Generation Algorithm for Prefix Normal Words*, in: Proc. of the 12th Intl. Conference on Language and Automata Theory and Applications (**LATA 2018**), to appear, 2018.
81. F. Cicalese, L. Gargano, U. Vaccaro, *How to find a joint probability distribution of minimum entropy (almost) given the marginals*, in: Proc. of International Symposium in Information Theory (**ISIT 2017**), IEEE Press, pp. 2173-2177, 2017.
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86. F. Cicalese, B. Keszegh, B. Lidický, D. Pálvölgyi, T. Valla, *On the Tree Search Problem with Non-uniform Costs*, in: Proc. of the 41st Workshop on Graph Theoretical Concepts in Computer Science (**WG 2015**), Lecture Notes in Computer Science, Vol. 9224, pp. 90-102, 2015.
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88. W. Bardales, F. Cicalese, E. Laber, *On lower bounds for the Maximum Consecutive Subsums Problem and the $(\min, +)$ -convolution*, in: Proc. of International Symposium in Information Theory (**ISIT 2014**), IEEE Press, pp. 1807-1811, 2014.
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90. F. Cicalese, E. Laber, A. Saettler, *Function Evaluation: decision trees optimizing simultaneously worst and expected testing costs*, in: Proc. of the 13th International Symposium on Artificial Intelligence and Mathematics (**ISAIM 2014**), 2014.
91. F. Cicalese, T. Gagie, E. Giaquinta, E. Laber, Zs. Lipták, R. Rizzi, A.I. Tomescu, *Indexes for Jumbled Pattern Matching in Strings, Trees and Graphs*, in: Proc. of the 20th String Processing and Information Retrieval Symposium (**SPIRE 2013**), Lecture Notes in Computer Science, Vol. 8214, pp. 56-63, 2013.
92. F. Cicalese, L. Gargano, U. Vaccaro, *Information Theoretic Distance Measures between Income Distributions*, in: Proc. of International Symposium in Information Theory (**ISIT 2013**), IEEE Press, pp. 409 - 413, 2013.
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94. F. Cicalese, E. Laber, O. Weimann, R. Yuster, *Near Linear Time Construction of an Approximate Index for All Maximum Consecutive Sub-sums of a Sequence*, in: Proc. of the 23rd Annual Symposium on Combinatorial Pattern Matching (**CPM 2012**), Lecture Notes in Computer Science, Vol. 7354, pp. 149-158, 2012.
95. F. Cicalese, *The Multi-interval Ulam-Rényi Game*, in: Proc. of the 6th International Conference on Fun with Algorithms (**FUN 2012**), Lecture Notes in Computer Science, Vol. 7288, pp. 69-80, 2012.
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99. F. Cicalese, T. Jacobs, E. Laber, M. Molinaro, *On Greedy Algorithms for Decision Trees*, in: Proc. of the 21st International Symposium on Algorithms and Computation (**ISAAC 2010**), Lecture Notes in Computer Science, Vol. 6507, pp. 206-217, 2010.
100. F. Cicalese, T. Jacobs, E. Laber, M. Molinaro, *On the Complexity of Searching in Trees: Average-case Minimization*, in: Proc. of the 37th International Colloquium on Automata, Languages and Programming (**ICALP 2010**), Lecture Notes in Computer Science, Vol. 6198, pp. 527-539, 2010.
101. F. Cicalese, M. Milanič, *Graphs of Separability at Most Two: Structural Characterizations and Their Consequences*, in: Proc. of the 21st International Workshop on Combinatorial Algorithms (**IWOCA 2010**), Lecture Notes in Computer Science, Vol. 6460, pp. 291-302, 2011.
102. F. Cicalese, P.L. Erdős, and Zs. Lipták, *Efficient Reconstruction of RC-Equivalent Strings*, in: Proc. of the 21st International Workshop on Combinatorial Algorithms (**IWOCA 2010**), Lecture Notes in Computer Science, Vol. 6460, pp. 349-362, 2011.
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Verona, September 11, 2024**Ferdinando Cicalese**

**DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE
E/O SOSTITUTIVA DELL'ATTO DI NOTORIETÀ**

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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 veritiere e falsità negli atti, richiamate dall'art. 76 del DPR 445/2000.

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