CURRICULUM VITAE OF FRANCESCO PIO MARINO
December 2024

Personal Data

CONTACTS

E-mail: marfra99x@gmail.com
Phone: +39 3421459002

Education

Ph.D. in Computer Science   08 2023 — Present
University of Catania, Catania, Italy
Thesis Title: Efficient Online Sampled String Matching

Ph.D. in Computer Science   08 2023 — Present
University of Rouen, Rouen, France
Thesis Title: Efficient Online Sampled String Matching

Master Degree in Computer Science   09 2020 — 07 2022
University of Catania, Catania, Italy
Thesis Title: Efficient Exact and Approximate String Matching based on Text Sampling

Bachelor Degree in Computer Science   09 2017 — 07 2020
University of Catania, Catania, Italy
Thesis Title: Efficient Online String Matching Based on Characters Distance Text Sampling

Scientific and Research Activity

RESEARCH
INTERESTS

Algorithms on strings, combinatorial algorithms, automata theory, exact and approximate pattern matching, data compression, text indexing, string sampling, sorting algorithms

INTERNATIONAL
CONFERENCES
AS SPEAKER

- *Prague Stringology Conference 2020.* 31 August - 2 Septembre 2020, Prague, Czech Republic.
- *Prague Stringology Conference 2021.* 30-31 August 2021, Prague, Czech Republic.
- *Italian Conference on Theoretical Computer Science 2021.* 13-15 September 2021, Bologna, Italy.
- *Quantum Search and Information Retrieval* (QUASAR24) 3 June 2024, Pisa, Italy.
- *12th International Conference on Fun with Algorithms* (FUN24) 4-8 June 2024, Island of La Maddalena, Italy.
- *Future Conference Technology* (FTC24) 14-15 November 2024, London, United Kingdom.

INTERNATIONAL
JOURNALS
(2 PAPERS)

- Simone Faro, Francesco Pio Marino and Arianna Pavone. Efficient Online String Matching Based on Characters Distance Text Sampling. *Algorithmica*, Springer, 2020. doi:10.1007/s00453-020-00732-4
- Simone Faro, Francesco Pio Marino and Arianna Pavone. Improved characters distance sampling for online and offline text searching. *Theoretical Computer Science*, Volume 946, 2023. doi:https://doi.org/10.1016/j.tcs.2022.12.034

INTERNATIONAL CONFERENCES (9 PAPERS)	• Simone Faro and Francesco Pio Marino. Reducing Time and Space in Indexed String Matching by Characters Distance Text Sampling. *Proceedings of the Prague Stringology Conference 2020, PSC 2020*

- Simone Faro and Francesco Pio Marino. Reducing Time and Space in Indexed String Matching by Characters Distance Text Sampling. *Proceedings of the Prague Stringology Conference 2020, PSC 2020*
- Simone Faro, Francesco Pio Marino, Stefano Scafiti. Fast-Insertion-Sort: a New Family of Efficient Variants of the Insertion-Sort Algorithm. *Proceedings of the SOFSEM 2020 Doctoral Student Research Forum co-located with the 46th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2020)*, CEUR Workshop Proceedings, Vol.2568, pp. 37-48, 2020.
- Simone Faro, Francesco Pio Marino, Arianna Pavone and Antonio Scardace. Towards an Efficient Text Sampling Approach for Exact and Approximate Matching. *Proceedings of the Prague Stringology Conference 2021, PSC 2021.*
- Simone Faro, Francesco Pio Marino and Arianna Pavone. Enhancing Characters Distance Text Sampling by Condensed Alphabets. *Proceedings of the 22nd Italian Conference on Theoretical Computer Science, ICTCS 2021.*
- Simone Faro, Francesco Pio Marino, Andrea Moschetto, Arianna Pavone and Antonio Scardace. The Great Textual Hoax: Boosting Sampled String Matching with Fake Samples.*Proceedings of the 12th International Conference on Fun with Algorithms, FUN 2024.*
- Simone Faro, Francesco Pio Marino and Antonio Scardace. Practical Implementation of a Quantum String Matching Algorithm. *Quantum Search and Information Retrieval, QUASAR24.*
- Simone Faro, Francesco Pio Marino and Andrea Moschetto Beyond Horspool: A Comparative Analysis in Sampled Matching. *Proceedings of the Prague Stringology Conference 2024, PSC 2024.*
- Domenico Cantone, Claudio Caudullo, Simone Faro, Francesco Pio Marino, Arianna Pavone and Caterina Viola. Practical Quantum Combinatorial String Matching *Future Technologies Conference (FTC) 2024.*
- Simone Faro, Thierry Lecroq, Francesco Pio Marino, Arianna Pavone and Stefano Scafiti. Improving Sampled Matching through Character Context Sampling *Improving Sampled Matching through Character Context Sampling (ICTCS) 2024.*

REFEREE SERVICES

Reviewer for the following international journals and conferences:

- Transactions on Quantum Computing, ACM