Nicola Prezza: list of titles and publications

Titles

3/4/2017	Ph.D in Computer Science, Mathematics and Physics - 29th cycle, University of Udine.
18/10/2013	Laurea Magistrale in informatica, LM-18 - Classe delle lauree magistrali in informatica - D.M. 270/2004. University of Udine. Grade: 110/110 cum laude.
14/12/2011	Laurea in informatica, L-31 - Classe delle lauree in Scienze e tecnologie informatiche - D.M. 270/2004. University of Udine. Grade: 110/110 cum laude.

Publications

Publications in computer science conferences and journals (i.e. [PP17b] and all conferences except [PDFV$^+$12]) follow the tradition of alphabetically sorted author lists. I moreover include the submitted publication [KP17] (currently under review) since I believe it is relevant with the application.

Peer reviewed journal publications.

[PP17b]
Alberto Policriti and Nicola Prezza. LZ77 Computation Based on the Run-Length Encoded BWT. *Algorithmica*, Jul 2017

[PP15b]
Alberto Policriti and Nicola Prezza. Fast randomized approximate string matching with succinct hash data structures. *BMC bioinformatics*, 16(9):S4, 2015

[PVKP16]
Nicola Prezza, Francesco Vezzi, Max Käller, and Alberto Policriti. Fast, accurate, and lightweight analysis of BS-treated reads with ERNE 2. *BMC bioinformatics*, 17(4):69, 2016

[EWM$^+$17]
Karin Engström, Tomasz K Wojdacz, Francesco Marabita, Philip Ewels, Max Käller, Francesco Vezzi, Nicola Prezza, Joel Gruselius, Marie Vahter, and Karin Broberg. Transcriptomics and methylomics of CD4-positive T cells in arsenic-exposed women. *Archives of toxicology*, 91(5):2067–2078, 2017

Peer reviewed conference publications.

[Pre18]   Nicola Prezza. In-Place Sparse Suffix Sorting. In *Proceedings of the Twenty-Ninth Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2018, New Orleans, NA, USA, January 7-10, 2018*. SIAM, 2018. Accepted for publication. Preprint available at: https://arxiv.org/abs/1608.05100

[GNP18]   Travis Gagie, Gonzalo Navarro, and Nicola Prezza. Optimal-Time Text Indexing in BWT-runs Bounded Space. In *Proceedings of the Twenty-Ninth Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2018, New Orleans, NA, USA, January 7-10, 2018*. SIAM, 2018. Accepted for publication. Preprint available at: https://arxiv.org/abs/1705.10382

[BCPS17]   Philip Bille, Anders Roy Christiansen, Nicola Prezza, and Frederik Rye Skjoldjensen. Succinct Partial Sums and Fenwick Trees. In *International Symposium on String Processing and Information Retrieval (proceedings to appear)*. Springer, 2017

[PP17a]   Alberto Policriti and Nicola Prezza. From LZ77 to the Run-Length Encoded Burrows-Wheeler Transform, and Back. In *Annual Symposium on Combinatorial Pattern Matching (proceedings to appear)*. Springer, 2017

[BGP17]   Philip Bille, Inge Li Gørtz, and Nicola Prezza. Space-Efficient Re-Pair Compression. In *Data Compression Conference (DCC), 2017*, pages 171–180. IEEE, 2017

[BCG$^+$17]   Djamal Belazzougui, Fabio Cunial, Travis Gagie, Nicola Prezza, and Mathieu Raffinot. Flexible Indexing of Repetitive Collections. In *Conference on Computability in Europe*, pages 162–174. Springer, 2017

[Pre17]   Nicola Prezza. A Framework of Dynamic Data Structures for String Processing. In *International Symposium on Experimental Algorithms (proceedings to appear)*. Springer, 2017

[PP16]   Alberto Policriti and Nicola Prezza. Computing LZ77 in run-compressed space. In *Data Compression Conference (DCC), 2016*, pages 23–32. IEEE, 2016

[BCG+15] Djamal Belazzougui, Fabio Cunial, Travis Gagie, Nicola Prezza, and Mathieu Raffinot. Composite repetition-aware data structures. In *Annual Symposium on Combinatorial Pattern Matching*, pages 26–39. Springer, 2015

[PP15a] Alberto Policriti and Nicola Prezza. Fast online Lempel-Ziv factorization in compressed space. In *International Symposium on String Processing and Information Retrieval*, pages 13–20. Springer, 2015

[GPP15] Nicola Gigante, Alberto Policriti, and Nicola Prezza. Average linear time and compressed space construction of the Burrows-Wheeler transform. In *International Conference on Language and Automata Theory and Applications*, pages 587–598. Springer, 2015

[PP14] Alberto Policriti and Nicola Prezza. Hashing and indexing: Succinct datastructures and smoothed analysis. In *International Symposium on Algorithms and Computation*, pages 157–168. Springer, 2014

[PDFV+12] Nicola Prezza, Cristian Del Fabbro, Francesco Vezzi, Emanuale De Paoli, and Alberto Policriti. ERNE-BS5: aligning BS-treated sequences by multiple hits on a 5-letters alphabet. In *Proceedings of the ACM conference on bioinformatics, computational biology and biomedicine*, pages 12–19. ACM, 2012

Submitted

[KP17] Dominik Kempa and Nicola Prezza. At the Roots of Dictionary Compression: String Attractors. *arXiv preprint arXiv:1710.10964*, 2017

Date   November 26, 2017   Signature