

References

- [1] Alain Cardon and Maxime Crochemore. Minimisation d'automates et algorithme de Hopcroft. Rapport du laboratoire d'informatique 78-02, Université de Haute-Normandie, 1978.
- [2] Alain Cardon and Maxime Crochemore. Deux applications du tri lexicographique. Rapport du laboratoire d'informatique 78-03, Université de Haute-Normandie, 1978.
- [3] Alain Cardon and Maxime Crochemore. *Standardisation de séries formelles et minimisation d'automates*. Thèse de 3-ème cycle, Université de Haute-Normandie, 4 décembre 1978.
- [4] Maxime Crochemore. Simulation des automates déterministes à pile d'après Cook et Jones. In *Actes du séminaire d'informatique théorique du L.I.T.P.* Universités Paris 6-7, 1980.
- [5] Alain Cardon and Maxime Crochemore. Détermination de la représentation standard d'une série reconnaissable. *RAIRO Informatique Théorique/Theoretical Informatics*, 14(4):371–379, 1980.
- [6] Maxime Crochemore. An optimal algorithm for computing the repetitions in a word. *Information Processing Letters*, 12(5):244–250, 1981.
- [7] Maxime Crochemore. Sharp characterization of square-free morphisms. *Theoretical Computer Science*, 18(2):221–226, 1982.
- [8] Alain Cardon and Maxime Crochemore. Partitioning a graph in $O(|A| \log_2 |V|)$. *Theoretical Computer Science*, 19(1):85–98, 1982.
- [9] Maxime Crochemore. Résultats de décidabilité pour les morphismes faiblement sans carré. Rapport L.I.T.P. 82-38, Universités Paris 6-7, 1982.
- [10] Maxime Crochemore. Sur les ensembles inévitables. Rapport L.I.T.P. 82-56, Universités Paris 6-7, 1982.
- [11] Maxime Crochemore. A solution to Berstel's problem P3. *Bul. Euro. Assoc. Theor. Comput. Sci.*, 18:9–11, 1982.
- [12] Maxime Crochemore. Tests sur les morphismes faiblement sans carré. In L. Cummings, editor, *Combinatorics on Words (Waterloo, Ont., 1982)*, pages 63–89. Academic Press, 1983.
- [13] Maxime Crochemore. A solution to P12. *Bul. Euro. Assoc. Theor. Comput. Sci.*, 19:15–16, 1983.
- [14] Maxime Crochemore, Michel Lerest, and Philippe Wender. An optimal test on finite unavoidable sets of words. *Information Processing Letters*, 16(4):179–180, 1983.

- [15] Maxime Crochemore. Recherche linéaire d'un carré dans un mot. *C. R. Acad. Sc. Paris Sér. I Math.*, 296(18):781–784, 1983.
- [16] Maxime Crochemore. *Régularités évitables*. Thèse d'état, Université de Haute-Normandie, 20 juin 1983.
- [17] Maxime Crochemore. Mots et morphismes sans carré. In *Combinatorial Mathematics (Marseille-Luminy, 1981)*, number 75 in Math. Stud., pages 235–245. North-Holland, 1983.
- [18] Maxime Crochemore. Linear searching for a square in a word. *Bul. Euro. Assoc. Theor. Comput. Sci.*, 24:66–72, 1984. Presented at ICALP'84. Abstract in *Automata, Languages and Programming*, LNCS 172, pp. 137. Springer, Berlin, 1984.
- [19] Maxime Crochemore. Optimal factor transducers. In A. Apostolico and Z. Galil, editors, *Combinatorial Algorithms on Words (Maratea, 1984)*, number 12 in NATO Adv. Sci. Inst. Ser. F, Comput. Systems Sci., pages 31–43. Springer-Verlag, 1985.
- [20] Jean-Jacques Hébrard and Maxime Crochemore. Calcul de la distance par les sous-mots. *Informatique théorique et applications/Theoretical Informatics and Applications*, 20(4):441–456, 1986.
- [21] Maxime Crochemore. Transducers and repetitions. *Theoretical Computer Science*, 45(1):63–86, 1986.
- [22] Maxime Crochemore and Ahmed Saoudi, editors. *Actes des journées Informatique Fondamentale et Intelligence Artificielle (Villetaneuse, 1986)*. Université Paris-Nord, 1986.
- [23] Maxime Crochemore. Calcul de la f-distance de deux mots. In *Actes du séminaire d'informatique théorique du L.I.T.P.*, pages 25–36. Universités Paris 6-7, 1986.
- [24] Maxime Crochemore. Computing LCF in linear time. *Bul. Euro. Assoc. Theor. Comput. Sci.*, 30:57–61, 1986.
- [25] Maxime Crochemore and Jean-Pierre Pécuchet. Compression de dictionnaires. Rapport L.A.D.L., Université Paris 7, 1987.
- [26] Maxime Crochemore. Longest common factor of two words. In Ehrig, Kowalski, Levi, and Montanari, editors, *TAPSOFT'87 (Pisa, 1987)*, number 249 in LNCS, pages 26–36. Springer-Verlag, 1987.
- [27] Maxime Crochemore and Jean-Pierre Pécuchet. Réduction d'un lexique pour micro-ordinateur. Rapport L.A.D.L., Université Paris 7, 1987.
- [28] Maxime Crochemore and Ahmed Saoudi, editors. *Actes des journées Informatique Fondamentale et Intelligence Artificielle (Villetaneuse, 1987)*. Université Paris-Nord, 1987.

- [29] Maxime Crochemore and Dominique Perrin. Pattern matching in strings. In V. Cantoni, V. Di Gesu, and S. Levialdi, editors, *Proceedings of the 4th conference on Image Analysis and Processing (Cefalù, 1988)*, number 249 in LNCS, pages 67–79. Plenum Press, 1988.
- [30] Maxime Crochemore and Dominique Perrin. Critical factorizations of words. *Bul. Euro. Assoc. Theor. Comput. Sci.*, 34:47–52, 1988.
- [31] Maxime Crochemore. Compression de textes: les méthodes. Rapport L.I.P.N. 88-4, Université Paris-Nord, 1988.
- [32] Maxime Crochemore. String matching with constraints. In M. Chytil, L. Janiga, and S. Koubek, editors, *Mathematical Foundations of Computer Science 1988 (Carlsbad, 1988)*, number 324 in LNCS, pages 44–58. Springer-Verlag, 1988.
- [33] Maxime Crochemore. Constant-space string matching. In Nori and Kumar, editors, *Foundations of Software Technology, Theoretical Computer Science (Puna, 1988)*, number 338 in LNCS, pages 80–87. Springer-Verlag, 1988.
- [34] Jean Berstel, Maxime Crochemore, and Jean-Eric Pin. Thue-morse sequence and p -adic topology of the free monoid. *Annals of Discrete Mathematics*, 76(2):89–94, 1989.
- [35] Maxime Crochemore. Data compression with substitution. In M. Gross and D. Perrin, editors, *Electronic Dictionaries and Automata in Computational Linguistics (Oléron, 1987)*, number 377 in LNCS, pages 1–16. Springer-Verlag, 1989.
- [36] Maxime Crochemore. Automata and algorithms. In J-E. Pin, editor, *Formal Properties of Finite Automata and Applications (Ramatuelle, 1988)*, number 386 in LNCS, pages 166–175. Springer-Verlag, 1989.
- [37] Maxime Crochemore and Marc Zipstein. Transducteurs arithmétiques. Rapport L.I.T.P. 89-12, Universités Paris 6-7, 1989.
- [38] Maxime Crochemore. String-matching and periods. *Bul. Euro. Assoc. Theor. Comput. Sci.*, 39:149–153, 1989.
- [39] Maxime Crochemore. Note on constant-space string matching. In R. Capocelli, editor, *Sequences: Combinatorics, Compression, Security, and Transmission (Positano, 1988)*. Springer-Verlag, 1990.
- [40] Maxime Crochemore and Wojciech Rytter. Parallel computations on strings and arrays. In C. Choffrut and T. Lengauer, editors, *STACS'90 (Rouen, 1990)*, number 415 in LNCS, pages 109–125. Springer-Verlag, 1990.

- [41] Maxime Crochemore and Jean Néraud. Unitary monoid with two generators: an algorithmic point of view. In A. Arnold, editor, *CAAP'90, proceedings of the 15th Colloquium on Trees in Algebra and Programming (Copenhagen, 1990)*, number 431 in LNCS, pages 117–131. Springer-Verlag, 1990.
- [42] Maxime Crochemore and Wojciech Rytter. Parallel construction of minimal suffix and factor automata. *Information Processing Letters*, 35(3):121–128, 1990.
- [43] Maxime Crochemore and Wojciech Rytter. Parallel construction of minimal suffix and factor automata. In B. Rovan, editor, *MFCS'90 (Banská Bistrica, 1990)*, number 452 in LNCS, pages 217–223. Springer-Verlag, 1990.
- [44] Maxime Crochemore and Wojciech Rytter. Testing square-freeness of strings by an optimal parallel algorithm in logarithmic time. Rapport L.I.T.P. 90-63, Universités Paris 6-7, 1990.
- [45] Maxime Crochemore. A la recherche d'un mot. In V. Bruyère, editor, *Actes des Journées Montoises (Mons, 1990)*, pages 34–38, Université de Mons-Hainaut, Belgique, 1990.
- [46] Maxime Crochemore, Michal Chtyl, Burkhard Monien, and Wojciech Rytter. On the parallel recognition of unambiguous context-free languages. *Theoretical Computer Science*, 81(2):311–316, 1991.
- [47] Maxime Crochemore and Wojciech Rytter. Efficient parallel algorithms to test square-freeness and factorize strings. *Information Processing Letters*, 38(2):57–60, 1991.
- [48] Maxime Crochemore and Wojciech Rytter. Usefulness of the Karp-Miller-Rosenberg algorithm in parallel computations on strings and arrays. *Theoretical Computer Science*, 88(1):59–82, 1991.
- [49] Alberto Apostolico and Maxime Crochemore. Optimal canonization of all substrings of a string. *Information and Computation*, 95(1):76–95, 1991.
- [50] Maxime Crochemore and Dominique Perrin. Two-way string-matching. *J. Assoc. Comput. Mach.*, 38(3):651–675, 1991.
- [51] Maxime Crochemore and Pavel Goralcik. Mutually avoiding ternary words of small exponent. *International Journal of Algebra and Computation*, 1(4):407–410, 1991.
- [52] Maxime Crochemore, editor. *Combinatorial Pattern Matching (Paris, 1990)*. Elsevier, 1992. Special issue of *Theoretical Computer Science*, volume 92(1).

- [53] Maxime Crochemore. String-matching on ordered alphabets. *Theoretical Computer Science*, 92(1):33–47, 1992.
- [54] Maxime Crochemore, Artur Czumaj, Leszek Gąsieniec, Stefan Jarominek, Thierry Lecroq, Wojciech Płandowski, and Wojciech Rytter. Speeding up two string-matching algorithms. In A. Finkel and M. Jantzen, editors, *STACS'92 (Cachan, 1992)*, number 577 in LNCS, pages 589–600. Springer-Verlag, 1992.
- [55] Maxime Crochemore, Artur Czumaj, Leszek Gąsieniec, Stefan Jarominek, Thierry Lecroq, Wojciech Płandowski, and Wojciech Rytter. Deux méthodes pour accélérer l’algorithme de Boyer-Moore. In D. Krob, editor, *Théorie des automates et applications, Université de Rouen*, pages 45–63. Université de Rouen, 1992.
- [56] Jean Néraud and Maxime Crochemore. A string-matching interpretation of the equation $x^m y^n = z^p$. *Theoretical Computer Science*, 92(1):145–164, 1992.
- [57] Alberto Apostolico, Maxime Crochemore, Zvi Galil, and Udi Manber, editors. *Combinatorial Pattern Matching (Tucson, Arizona, 1992)*, number 644 in LNCS. Springer-Verlag, 1992.
- [58] Maxime Crochemore, Leszek Gąsieniec, and Wojciech Rytter. Turbo-BM. Rapport L.I.T.P. 92.61, Universités Paris 6-7, 1992.
- [59] Maxime Crochemore and Wojciech Rytter. Note on two-dimensional pattern matching by optimal parallel algorithms. In A. Nakamura, M. Nivat, A. Saoudi, P. S. P. Wang, and K. Inoue, editors, *Parallel Image Analysis (Ube, 1992)*, number 654 in LNCS, pages 100–112. Springer-Verlag, 1992.
- [60] Maxime Crochemore, Jean-Paul Arcangeli, Jean-Noël Hourcastagnou, and Jean-Eric Pin. Compression for an effective management of telemetry data. In *SPACEOPS'92, Proc. of the Second International Symposium on Ground Data Systems for Space Operations (Pasadena, 1992)*, pages 823–830. Jet Propulsion Laboratory Publications, 1993.
- [61] Maxime Crochemore, Dominique Perrin, and Jean-Eric Pin. Les automates finis. In *Le Courrier du C.N.R.S., la recherche en informatique*, pages 48–51. C.N.R.S., 1993.
- [62] Maxime Crochemore, editor. *Informatique et génome (Marne-la-Vallée, 1993)*. Université de Marne-la-Vallée, 1993.
- [63] Alberto Apostolico, Maxime Crochemore, Zvi Galil, and Udi Manber, editors. *Combinatorial Pattern Matching (Padova, 1993)*, number 684 in LNCS. Springer-Verlag, 1993.

- [64] Maxime Crochemore and Wojciech Rytter. Periodic prefixes in texts. In U. Vaccaro R. Capocelli, A. De Santis, editor, *Sequences II (Positano, 1991)*, pages 153–165. Springer-Verlag, New York, 1993.
- [65] Maxime Crochemore, Leszek Gąsieniec, and Wojciech Rytter. Two-dimensional pattern matching by sampling. *Information Processing Letters*, 46(4):159–162, 1993.
- [66] Richard Cole, Maxime Crochemore, Zvi Galil, Leszek Gąsieniec, Ramesh Hariharan, S. Muthukrishnan, Kunsoo Park, and Wojciech Rytter. Optimally fast parallel algorithms for preprocessing and pattern matching in one and two dimensions. In *34th Annual Symposium on Foundations of Computer Science, FOCS’93 (Palo Alto, California, 1993)*, pages 248–258. I.E.E.E., 1993.
- [67] Maxime Crochemore, Artur Czumaj, Leszek Gąsieniec, Stephan Jarominek, Thierry Lecroq, Wojciech Plandowski, and Wojciech Rytter. Fast multi-pattern matching. Rapport I.G.M. 93-3, Université de Marne-la-Vallée, 1993.
- [68] Maxime Crochemore and Wojciech Rytter. On two-dimensional pattern matching by optimal parallel algorithms. *Theoretical Computer Science*, 132(1–2):403–414, 1994.
- [69] Maxime Crochemore, Artur Czumaj, Leszek Gąsieniec, Stefan Jarominek, Thierry Lecroq, Wojciech Plandowski, and Wojciech Rytter. Speeding up two string-matching algorithms. *Algorithmica*, 12(4–5):247–267, 1994.
- [70] Maxime Crochemore and Dan Gusfield, editors. *Combinatorial Pattern Matching (Asilomar, California, 1994)*, number 807 in LNCS. Springer-Verlag, 1994.
- [71] Maxime Crochemore and Wojciech Rytter. *Text algorithms*. Oxford University Press, 1994. 412 pages.
- [72] Alberto Apostolico and Maxime Crochemore. Fast parallel Lyndon factorization and applications. *Mathematical System Theory*, 28:89–108, 1995.
- [73] Maxime Crochemore, Leszek Gąsieniec, Wojciech Plandowski, and Wojciech Rytter. Two-dimensional pattern matching in linear time and small space. In E.W. Mayr and C. Puech, editors, *STACS’95*, number 900 in LNCS, pages 181–192. Springer-Verlag, 1995.
- [74] Maxime Crochemore and Wojciech Rytter. On linear-time alphabet-independent 2-dimensional pattern matching. In R. Baeza-Yates, E. Goles, and P.V. Poblete, editors, *LATIN’95 (Valparaiso, 1995)*, number 911 in LNCS, pages 220–229. Springer-Verlag, 1995.
- [75] Maxime Crochemore and Wojciech Rytter. Squares, cubes and time-space efficient string-searching. *Algorithmica*, 13(5):405–425, 1995.

- [76] Nadia El Mabrouk and Maxime Crochemore. Boyer-Moore strategy to efficient approximate string matching. In D. Hirschberg and E.W. Myers, editors, *Combinatorial Pattern Matching (Labuna Beach, California, 1996)*, number 1075 in LNCS, pages 24–38. Springer-Verlag, 1996.
- [77] Maxime Crochemore and Thierry Lecroq. Pattern matching and text compression algorithms. *ACM Computing Surveys*, 28, 1:39–41, 1996.
- [78] Maxime Crochemore and Thierry Lecroq. Tight bounds on the complexity of the Apostolico-Giancarlo algorithm. In N. Ziviani, R. Baeza-Yates, and K. Guimaraes, editors, *WSP 1996 (Recife, 1996)*, pages 64–74. Carleton University Press, 1996.
- [79] Maxime Crochemore and Thierry Lecroq. Pattern matching and text compression algorithms. In Allen B. Tucker, editor, *The Computer Science and Engineering Handbook*, chapter 8, pages 162–202. CRC Press, 1997.
- [80] Maxime Crochemore, Zvi Galil, Leszek Gąsieniec, Kunsoo Park, and Wojciech Rytter. Constant-time randomized parallel string matching. *SIAM Journal of Computing*, 26(4):950–960, 1997.
- [81] Maxime Crochemore and Christophe Hancart. Automata for matching patterns. In G. Rozenberg and A. Salomaa, editors, *Handbook of Formal Languages*, volume 2, Linear Modeling: Background and Application, chapter 9, pages 399–462. Springer-Verlag, 1997.
- [82] Maxime Crochemore and Renaud Vérité. Direct construction of compact directed acyclic word graphs. In A. Apostolico and J. Hein, editors, *Combinatorial Pattern Matching (Aarhus, 1997)*, number 1264 in LNCS, pages 116–129. Springer-Verlag, 1997.
- [83] Maxime Crochemore and Renaud Vérité. On compact directed acyclic word graphs. In J. Mycielski, G. Rozenberg, and A. Salomaa, editors, *Structures in Logic and Computer Science*, number 1261 in LNCS, pages 192–211. Springer-Verlag, 1997.
- [84] Maxime Crochemore. Off-line exact serial string searching. In A. Apostolico and Galil Z., editors, *Pattern Matching Algorithms*, pages 1–53. Oxford University Press, 1997.
- [85] Maxime Crochemore and Thierry Lecroq. Tight bounds on the complexity of the Apostolico-Giancarlo algorithm. *Information Processing Letters*, 63(4):195–203, 1997. Final version of [78].
- [86] Maxime Crochemore, Costas S. Iliopoulos, and Maureen Korda. Two-dimensional prefix string matching and covering on square matrices. *Algorithmica*, 20:353–373, 1998.

- [87] Maxime Crochemore, Leszek Gąsieniec, and Wojciech Rytter. Constant-space string matching in sublinear average time. In B. Carpentieri, A. De Santis, U. Vaccaro, and J.A. Storer, editors, *Compression and Complexity of Sequences (Positano, 1997)*, pages 230–239. IEEE Computer Society, 1998.
- [88] Maxime Crochemore, Costas S. Iliopoulos, Maureen Korda, and James F. Reid. Two-dimensional dictionary prefix-matching. In C. S. Iliopoulos, editor, *Proceedings of the ninth Australian Workshop on Combinatorial Algorithms, AWOCA'98 (Perth, 1998)*, pages 147–158. School of Computing, Curtin University of Technology, Perth, Western Australia, 1998.
- [89] Maxime Crochemore, Costas S. Iliopoulos, and Hiafeng Yu. Algorithms for computing evolutionary chains in molecular and musical sequences. In C. S. Iliopoulos, editor, *Proceedings of the ninth Australian Workshop on Combinatorial Algorithms AWOCA'98 (Perth, 1998)*, pages 172–184. School of Computing, Curtin University of Technology, Perth, Western Australia, 1998.
- [90] Maxime Crochemore, Filippo Mignosi, and Antonio Restivo. Minimal forbidden words and factor automata. In L. Brim, J. Gruska, and J. Zlatuška, editors, *Mathematical Foundations of Computer Science (Brno, 1998)*, number 1450 in LNCS, pages 665–673. Springer-Verlag, 1998. Extended abstract of [91].
- [91] Maxime Crochemore, Filippo Mignosi, and Antonio Restivo. Automata and forbidden words. *Information Processing Letters*, 67(3):111–117, 1998.
- [92] Maxime Crochemore and Christophe Hancart. Pattern matching in strings. In Mikhail J. Atallah, editor, *Algorithms and Theory of Computation Handbook*, chapter 11, pages 11.1–11.28. CRC Press, 1998.
- [93] Maxime Crochemore and Thierry Lecroq. Text data compression algorithms. In Mikhail J. Atallah, editor, *Algorithms and Theory of Computation Handbook*, chapter 12, pages 12.1–12.23. CRC Press, 1998.
- [94] Maxime Crochemore, Leszek Gąsieniec, Ramesh Hariharan, S. Muthukrishnan, and Wojciech Rytter. A constant-time optimal parallel algorithm for two-dimensional pattern matching. *SIAM Journal of Computing*, 27(3):668–681, 1998.
- [95] Maxime Crochemore and Renaud Véritin. Zones of low entropy in genomic sequences. *Computers and Chemistry*, 324(23):275–282, 1999.
- [96] Maxime Crochemore, Filippo Mignosi, Antonio Restivo, and Sergio Salemi. Text compression using antidictionaries. In J. Wiedermann, P. van Emde Boas, and M. Nielsen, editors, *International Conference on Automata, Languages and Programming (Prague, 1999)*, number 1644 in LNCS, pages 261–270. Springer-Verlag, 1999. Rapport I.G.M. 98-10, Université de Marne-la-Vallée.

- [97] Maxime Crochemore and Mike Paterson, editors. *Combinatorial Pattern Matching (Warwick, 1999)*, number 1645 in LNCS. Springer-Verlag, 1999. <http://link.springer.de/link/service/series/0558/tocs/t1645.htm>.
- [98] Emilios Cambouropoulos, Maxime Crochemore, Costas S. Iliopoulos, Laurent Mouchard, and Yoan J. Pinzon. Algorithms for computing approximate repetitions in musical sequences. In R. Raman and J. Simpson, editors, *Proceedings of the tenth Australian Workshop on Combinatorial Algorithms, AWOCA'99*, pages 129–144. School of Computing, Curtin University of Technology, Perth, Western Australia, 1999.
- [99] Cyril Allauzen, Maxime Crochemore, and Mathieu Raffinot. Factor oracle: a new structure for pattern matching. In Miroslav Bartosek Jan Pavelka, Gerard Tel, editor, *SOFSEM'99, Theory and Practice of Informatics (Brno, 1999)*, number 1725 in LNCS, pages 291–306. Springer-Verlag, 1999. Proceedings of the 26th Seminar on Current Trends in Theory and Practice of Informatics, Milovy, Czech Republic, November 1999.
- [100] Maxime Crochemore and Zdeněk Troníček. Directed acyclic subsequence graph for multiple texts. Rapport I.G.M. 99-13, Université de Marne-la-Vallée, 1999.
- [101] Maxime Crochemore, Artur Czumaj, Leszek Gąsieniec, Thierry Lecroq, Wojciech Plandowski, and Wojciech Rytter. Fast practical multi-pattern matching. *Information Processing Letters*, 71(3–4):107–113, 1999.
- [102] Maxime Crochemore, Leszek Gąsieniec, and Wojciech Rytter. Constant-space string matching in sublinear average time. *Theoretical Computer Science*, 218(1):197–203, 1999. Full version of [87].
- [103] Alain Hénaut, Maxime Crochemore, Andrzej K. Konopka, Jean-Loup Risler, and Pierre Rouzé, editors. *Informatics and the genome*, volume 23. Pergamon, 1999. Special issue of *Computers and Chemistry*.
- [104] Maxime Crochemore, Costas S. Iliopoulos, Yoan J. Pinzon, and James Reid. A fast and practical bit-vector algorithms for the longest common subsequence problem. In L. Brankovic and J. Ryan, editors, *Proceedings of the eleventh Australasian Workshop on Combinatorial Algorithms, AWOCA'2000*, pages 75–86. University of Newcastle, NSW, Australia, 2000.
- [105] Maxime Crochemore, Costas S. Iliopoulos, and Yoan J. Pinzon. Fast evolutionary chains. In V. Hlaváč, K. G. Jeffery, and J. Wiedermann, editors, *Sofsem 2000—Theory and Practice of Informatics*, number 1963 in LNCS, pages 306–317. Springer-Verlag, 2000.
- [106] Maxime Crochemore, Costas S. Iliopoulos, Maureen Korda, and James Reid. A failure function for multiple two-dimensional pattern matching. *Combinatorial Mathematics and Combinatorial Computing*, 35:225–238, 2000. Full version of [88].

- [107] Maxime Crochemore and Leszek Gąsieniec, editors. *Matching Patterns*. Hermès, 2000. Special issue of *J. Discrete Algorithms*.
- [108] Maxime Crochemore, Filippo Mignosi, Antonio Restivo, and Sergio Salemi. Data compression using antidictionaries. *Proceedings of the I.E.E.E.*, 88(11):1756–1768, 2000. Special issue *Lossless data compression* edited by J. Storer.
- [109] Maxime Crochemore, Costas S. Iliopoulos, Yoan J. Pinzon, and Wojciech Rytter. Finding motifs with gaps. In *Proceedings of International Symposium on Music Information Retrieval (ISMIR'00)*, pages 306–317, Plymouth, Massachusetts, 2000.
- [110] Cyril Allauzen, Maxime Crochemore, and Mathieu Raffinot. Efficient experimental string matching by weak factor recognition. In A. Amir and G.M. Landau, editors, *CPM'2001, Combinatorial Pattern Matching (Jerusalem, 2001)*, number 2089 in LNCS, pages 51–72. Springer-Verlag, 2001.
- [111] Maxime Crochemore, Christophe Hancart, and Thierry Lecroq. *Algorithmique du texte*. Vuibert, 2001. 347 pages.
- [112] Maxime Crochemore, Costas S. Iliopoulos, Yoan J. Pinzon, and James Reid. A fast and practical bit-vector algorithms for the longest common subsequence problem. *Information Processing Letters*, 80(6):279–285, 2001. Complete version of [104].
- [113] Maxime Crochemore, Costas S. Iliopoulos, and Yoan J. Pinzon. Computing evolutionary chains in musical sequences. *Electronic Journal of Combinatorics*, 8(2), 2001.
http://www.combinatorics.org/Volume_8/v8i2toc.html.
- [114] Maxime Crochemore, Costas S. Iliopoulos, Thierry Lecroq, and Yoan J. Pinzon. Approximate string matching in musical sequences. In M. Balík and M. Šimánek, editors, *PSC'2001, Prague Stringology Club (Prague, 2001)*, pages 26–36. Czech Technical University of Prague, 2001. DC-2001-06.
- [115] Maxime Crochemore, Costas S. Iliopoulos, and Yoan J. Pinzon. Speeding-up Hirschberg and Hunt-Szymanski LCS algorithms. In G. Navarro, editor, *SPIRE'2001, 8th International Symposium on String Processing and Information Retrieval (Laguna de San Rafael, Chile, 2001)*, pages 59–67. IEEE Computer Society, 2001.
- [116] Maxime Crochemore, Gad M. Landau, and Michal Ziv-Ukelson. A sub-quadratic sequence alignment algorithm for unrestricted cost matrices. In D. Eppstein, editor, *Proceedings of the Thirteen Annual ACM-SIAM Symposium on Discrete Algorithms*, pages 679–688. ACM-SIAM, 2002. Rapport I.G.M. 2001-08.

- [117] Alberto Apostolico and Maxime Crochemore. String pattern matching for a deluge survival kit. In J. Abello, P.M. Pardalos, and M.G.C. Resende, editors, *Handbook of Massive Data Sets*, pages 151–194. Kluwer Academic Publishers, 2002.
- [118] Jean-Loup Risler, Maxime Crochemore, Andrzej K. Konopka, Bernard Prum, and Pierre Rouzé, editors. *Genome and Informatics*, volume 26-5, 2002. Special issue of *Computers and Chemistry*.
- [119] Maxime Crochemore, Costas S. Iliopoulos, Christos Makris, Wojciech Rytter, Athanasios Tsakalidis, and Kostas Tsichlas. Approximate string matching with gaps. *Nordic Journal of Computing*, 9(1):54–65, 2002.
- [120] Maxime Crochemore, Costas S. Iliopoulos, Thierry Lecroq, Wojciech Plandowski, and Wojciech Rytter. Three heuristics for *delta*-matching: *delta*-bm algorithms. In A. Apostolico and M. Takeda, editors, *Combinatorial Pattern Matching, CPM'2002*, number 2373 in LNCS, pages 178–189. Springer-Verlag, 2002.
- [121] Maxime Crochemore and Wojciech Rytter. *Jewels of Stringology*. World Scientific Publishing, Hong-Kong, 2002. 310 pages.
- [122] Emilios Cambouropoulos, Maxime Crochemore, Costas S. Iliopoulos, Laurent Mouchard, and Yoan J. Pinzon. Algorithms for computing approximate repetitions in musical sequences. *International Journal of Computer Mathematics*, 79(11):1135–1148, 2002.
- [123] Maxime Crochemore and Zdeněk Troníček. On the size of DASG for multiple texts. In A. Laender and A. Oliveira, editors, *String Processing and Information Retrieval, SPIRE'2002*, number 2476 in LNCS, pages 58–64. Springer-Verlag, 2002.
- [124] Maxime Crochemore and Gonzalo Navarro. Improved antidictionary based compression. In *SCCC'02, Chilean Computer Science Society*, pages 7–13. I.E.E.E. CS Press, 2002.
- [125] Nadia Pisanti, Maxime Crochemore, Roberto Grossi, and Marie-France Sagot. A basis for repeated motifs in pattern discovery and text mining. Technical report, Institut Gaspard-Monge, 2002. Rapport I.G.M. 2002-10.
- [126] Maxime Crochemore, Costas S. Iliopoulos, and Yoan J. Pinzon. Recovering an LCS in $O(n^2/w)$ time and space. *Colombian Journal of Computation*, 3(1):41–52, 2002.
- [127] Maxime Crochemore, Christophe Hancart, and Thierry Lecroq. A unifying look at the Apostolico-Giancarlo string-matching algorithm. *Journal of Discrete Algorithms*, 1(1):37–52, 2003.

- [128] Jan Holub and Maxime Crochemore. On the implementation of compact DAWG's. In J.-M. Champarnaud and D. Maurel, editors, *Implementation and Application of Automata*, number 2608 in LNCS, pages 289–294. Springer-Verlag, 2003.
- [129] Maxime Crochemore. Reducing space for index implementation. *Theoretical Computer Science*, 292(1):185–197, 2003.
- [130] Ricardo Baeza-Yates, Edgar Chávez, and Maxime Crochemore, editors. *Combinatorial Pattern Matching*, number 2676 in LNCS. Springer-Verlag, 2003.
- [131] Maxime Crochemore and Valery Stefanov. Waiting time and complexity for matching patterns with automata. *Information Processing Letters*, 87(3):119–125, 2003.
- [132] Amihood Amir, Ayelet Butman, Maxime Crochemore, Gad M. Landau, and Malka Schaps. Two-dimensional pattern matching with rotations. In R. Baeza-Yates, E. Chavez, and M. Crochemore, editors, *Combinatorial Pattern Matching*, number 2676 in LNCS, pages 17–31. Springer-Verlag, 2003.
- [133] Maxime Crochemore, Costas S. Iliopoulos, Thierry Lecroq, Yoan J. Pinzon, Wojciech Plandowski, and Wojciech Rytter. Occurrence and substring heuristics for δ -matching. *Fundamenta Informaticae*, 56(1,2):1–21, 2003.
- [134] Maxime Crochemore, Costas S. Iliopoulos, and Yoan J. Pinzon. Speeding-up Hirschberg and Hunt-Szymanski LCS algorithms. *Fundamenta Informaticae*, 56(1,2):89–103, 2003. Full version of [115].
- [135] Marie-Pierre Béal, Maxime Crochemore, Filippo Mignosi, Antonio Restivo, and Marinella Sciortino. Forbidden words of regular languages. *Fundamenta Informaticae*, 56(1,2):121–135, 2003.
- [136] Nadia Pisanti, Maxime Crochemore, Roberto Grossi, and Marie-France Sagot. A basis of tiling motifs for generating repeated patterns and its complexity for higher quorum. In B. Rovan and P. Vojtáš, editors, *Mathematical Foundations of Computer Science (MFCS)*, number 2747 in LNCS, pages 622–632. Springer-Verlag, 2003. See TR-03-02, Università di Pisa.
- [137] Maxime Crochemore, Gad M. Landau, and Michal Ziv-Ukelson. A sub-quadratic sequence alignment algorithm for unrestricted cost matrices. *SIAM Journal of Computing*, 32(6):1654–1673, 2003. Full version of [116].
- [138] Maxime Crochemore, Costas S. Iliopoulos, Gonzalo Navarro, and Yoan J. Pinzon. A bit-parallel suffix automaton approach for (δ, γ) -matching in music retrieval. In M. Nascimento, E. de Moura, and A. Oliveira, editors,

Proc. 10th International Symposium on String Processing and Information Retrieval (SPIRE'2003), number 2857 in LNCS, pages 211–223. Springer-Verlag, 2003.

- [139] Maxime Crochemore, Bořivoj Melichar, and Zdeněk Troníček. Directed acyclic subsequence graph - overview. *Journal of Discrete Algorithms*, 1(3-4):255–280, 2003.
- [140] Amihood Amir, Ayelet Butman, Maxime Crochemore, Gad M. Landau, and Mary Schaps. Two-dimensional pattern matching with rotations. *Theoretical Computer Science*, 314:173–187, 2004. Full version of [132].
- [141] Maxime Crochemore, Costas S. Iliopoulos, Manal Mohamed, and Marie-France Sagot. Longest repeated motif with a block of don't cares. In M. Farach-Colton, editor, *LATIN 2004: Theoretical Informatics*, number 2976 in LNCS, pages 271–278. Springer-Verlag, 2004.
- [142] Maxime Crochemore, Chiara Epifanio, Roberto Grossi, and Filippo Mignosi. A trie-based approach for compacting automata. In S. C. Sahinalp, S. Muthukrishnan, and U. Dogrusoz, editors, *Combinatorial Pattern Matching*, number 3109 in LNCS, pages 145–158. Springer-Verlag, 2004.
- [143] Maxime Crochemore, Raffaele Giancarlo, and Marie-France Sagot. Longest motifs with a functionally equivalent block. In A. Apostolico and M. Melucci, editors, *Proc. 11th International Symposium on String Processing and Information Retrieval (SPIRE'2004)*, number 3246 in LNCS, pages 298–309. Springer-Verlag, 2004.
- [144] Maxime Crochemore and Marie-France Sagot. Motifs in sequences: Localization and extraction. In A. K. Konopka and M. J. C. Crabbe, editors, *Compact Handbook of Computational Biology*, pages 47–97. Marcel Dekker, New York, 2004.
- [145] Maxime Crochemore and Thierry Lecroq. Pattern matching and text compression algorithms. In Allen B. Tucker, editor, *The Computer Science and Engineering Handbook*, chapter 13, pages 13–1–13–48. CRC Press, 2004. Update of [79].
- [146] Maxime Crochemore, Gad M. Landau, Baruch Schieber, and Michal Ziv-Ukelson. Re-use dynamic programming for sequence alignment: An algorithmic toolkit. In C. Iliopoulos and T. Lecroq, editors, *String Algorithmics*, pages 19–59. King's College London Publications, 2005.
- [147] Nadia Pisanti, Maxime Crochemore, Roberto Grossi, and Marie-France Sagot. A comparative study of bases for motif inference. In C. Iliopoulos and T. Lecroq, editors, *String Algorithmics*, pages 195–225. King's College London Publications, 2005.

- [148] Nadia Pisanti, Maxime Crochemore, Roberto Grossi, and Marie-France Sagot. Bases of motifs for generating repeated patterns with wild cards. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2(1):40–50, 2005.
- [149] Maxime Crochemore, Jacques Désarménien, and Dominique Perrin. A note on the Burrows-Wheeler transformation. *Theoretical Computer Science*, 332(1-3):567–572, 2005.
- [150] Maxime Crochemore, Costas S. Iliopoulos, Gonzalo Navarro, Yoan Pinzon, and Alejandro Salinger. Bit-parallel (γ, δ) -matching and suffix automata. *J. Discrete Algorithms*, 3(2-4):198–214, 2005.
- [151] Marie-Pierre Béal, Maxime Crochemore, and Gabriele Fici. Presentations of constrained systems with unconstrained positions. *IEEE Transactions on Information Theory*, 51(5):1891–1900, 2005.
- [152] Maxime Crochemore. Structures for indexes. In M. Lothaire, editor, *Applied Combinatorics on Words*, chapter 2, pages 106–163. Cambridge University Press, 2005.
- [153] Alberto Apostolico, Maxime Crochemore, and Kunsoo Park, editors. *Combinatorial Pattern Matching*, number 3537 in LNCS. Springer-Verlag, 2005.
- [154] Ricardo Baeza-Yates and Maxime Crochemore, editors. *Indexing and Matching Strings*. Elsevier, 2005. Special issue of *J. Discrete Algorithms*, volume 3(2-4).
- [155] Maxime Crochemore, Danny Hermelin, Gad M. Landau, and Stéphane Vialette. Approximating the 2-interval pattern problem. In G. S. Brodal and S. Leonardi, editors, *ESA 2005: 13th Annual European Symposium*, number 3669 in LNCS, pages 426–437. Springer-Verlag, 2005.
- [156] Emilios Cambouropoulos, Maxime Crochemore, Costas S. Iliopoulos, Manal Mohamed, and Marie-France Sagot. A pattern extraction algorithm for abstract melodic representations that allow partial overlapping of intervallic categories. In T. Crawford and M. Sandler, editors, *Proceedings of the 6th International Conference on Music Information Retrieval (ISMIR 2005)*, pages 167–174, 2005.
- [157] Maxime Crochemore and Thierry Lecroq. Text searching and indexing. In Z. Ésik, C. Martín-Vide, and V. Mitrana, editors, *Recent Advances in Formal Languages and Applications*, chapter 2, pages 43–80. Springer-Verlag, 2006.
- [158] Maxime Crochemore, Lucian Ilie, and Emine Seid-Hilmi. Factor oracles. In O. H. Ibarra and H.-C. Yen, editors, *Implementation and Application of Automata*, number 4094 in LNCS, pages 78–89. Springer-Verlag, 2006.

- [159] Maxime Crochemore, Gaël Harry Diaz, and Simão Melo de Souza, editors. *Fouille de données textuelles : complexité, algorithmique et passage à l'échelle*. Lavoisier, Paris, 2006. Numéro spécial de *Traitement automatique des langues*, volume 46(2).
- [160] Gaël Harry Diaz, Simão Melo de Souza, and Maxime Crochemore. Passage à l'échelle : complexité, algorithmique et architectures. *Traitement automatique des langues*, 46(2):7–12, 2006. Préface de [159].
- [161] Maxime Crochemore, Costas S. Iliopoulos, Manal Mohamed, and Marie-France Sagot. Longest repeats with a block of k don't cares. *Theoretical Computer Science*, 362(1-3):248–254, 2006.
- [162] Maxime Crochemore, Costas S. Iliopoulos, Kunsoo Park, and Kangho Roh. External memory algorithms for string problems. In J. Ryan and Dafik, editors, *Proceedings of the Seventeenth Australasian Workshop on Combinatorial Algorithms*. University of Ballarat, 2006.
- [163] Maxime Crochemore, Christophe Hancart, and Thierry Lecroq. *Algorithms on Strings*. Cambridge University Press, 2007. 392 pages.
- [164] Maxime Crochemore, Lucian Ilie, and Emine Seid-Hilmi. The structure of factor oracles. *International Journal of Foundations of Computer Science*, 18(4):781–797, 2007.
- [165] Pavlos Antoniou, Maxime Crochemore, Costas S. Iliopoulos, and Pierre Peterlongo. Application of suffix trees for the acquisition of common motifs with gaps in a set of strings. In R. Loos, S. Z. Fazekas, and C. Martín-Vide, editors, *Proceedings of the 1st International Conference on Language and Automata Theory and Applications (LATA '07)*, pages 57–66. Universitat Rovira i Virgili, 2007.
- [166] Emilios Cambouropoulos, Maxime Crochemore, Costas S. Iliopoulos, Manal Mohamed, and Marie-France Sagot. All maximal pairs in step-leap representation of melodic sequences. *Information Sciences*, 177(9):1954–1962, 2007. Journal version of [156].
- [167] Marie-Pierre Béal and Maxime Crochemore. Minimizing local automata. In G. Caire and M. Fossorier, editors, *IEEE International Symposium on Information Theory*, pages 1376–1380, 2007. IEEE Catalog Number: 07CH37924C.
- [168] Maxime Crochemore, Chiara Epifanio, Alessandra Gabriele, and Filippo Mignosi. On the suffix automaton with mismatches. In J. Holub and J. Zdárek, editors, *Implementation and Application of Automata, 12th International Conference*, number 4783 in LNCS, pages 144–156. Springer-Verlag, Berlin, 2007.

- [169] Maxime Crochemore and Lucian Ilie. Analysis of maximal repetitions in strings. In L. Kučera and A. Kučera, editors, *Mathematical Foundations of Computer Science*, number 4708 in LNCS, pages 465–476. Springer-Verlag, Berlin, 2007.
- [170] Maxime Crochemore, Costas S. Iliopoulos, and Mohammad Sohel Rahman. Finding patterns in given intervals. In L. Kučera and A. Kučera, editors, *Mathematical Foundations of Computer Science*, number 4708 in LNCS, pages 645–656. Springer, Berlin, 2007.
- [171] Maxime Crochemore and Lucian Ilie. Understanding maximal repetitions in strings. In S. Albers and P. Weil, editors, *Symposium on Theoretical Aspects of Computer Science*, pages 11–16. IBFI Schloss Dagstuhl, 2008. Bordeaux, France, 21-23 February 2008.
- [172] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Mohammad Sohel Rahman, and Tomasz Waleń. Improved algorithms for the range next value problem and applications. In S. Albers and P. Weil, editors, *Symposium on Theoretical Aspects of Computer Science*, pages 205–216. IBFI Schloss Dagstuhl, 2008. Bordeaux, France, 21-23 February 2008.
- [173] Maxime Crochemore and Lucian Ilie. Computing longest previous factors in linear time and applications. *Information Processing Letters*, 106(2):75–80, 2008. DOI: 10.1016/j.ipl.2007.10.006.
- [174] Kangho Roh, Maxime Crochemore, Costas S. Iliopoulos, and Kunsoo Park. External memory algorithms for string problems. *Fundamenta Informaticae*, 84(1):17–32, 2008.
- [175] Maxime Crochemore, Lucian Ilie, and William F. Smyth. A simple algorithm for computing the Lempel-Ziv factorization. In J. A. Storer and M. W. Marcellin, editors, *18th Data Compression Conference*, pages 482–488. IEEE Computer Society, Los Alamitos, CA, 2008. Snowbird, UT, USA, 25-27 March 2008.
- [176] Maxime Crochemore and Lucian Ilie. Maximal repetitions in strings. *Journal of Computer and System Sciences*, 74:796–807, 2008. DOI: 10.1016/j.jcss.2007.09.003.
- [177] Maxime Crochemore, Lucian Ilie, and Liviu Tinta. Towards a solution to the “runs” conjecture. In P. Ferragina and G. M. Landau, editors, *Combinatorial Pattern Matching*, number 5029 in LNCS, pages 290–302. Springer, Heidelberg, 2008. Pisa, Italy, June 18-20, 2008.
- [178] Maxime Crochemore, Danny Hermelin, Gad M. Landau, Dror Rawitz, and Stéphane Vialette. Approximating the 2-interval pattern problem. *Theoretical Computer Science*, 395(2-3):283–297, 2008.

- [179] Joseph Wun-Tat Chan and Maxime Crochemore, editors. *Combinatorial Algorithms*. Birkhäuser Basel, Switzerland, 2008. Special issue of *Mathematics in Computer Science*, Volume 1(4):541–736.
- [180] Maxime Crochemore and Wojciech Rytter. Squares and repetitions. In Ming-Yang Kao, editor, *Encyclopedia of Algorithms*, pages 874–877. Springer, Heidelberg, 2008.
- [181] Maxime Crochemore and Thierry Lecroq. Sequential exact string matching. In Ming-Yang Kao, editor, *Encyclopedia of Algorithms*, pages 824–826. Springer, Heidelberg, 2008.
- [182] Maxime Crochemore and Thierry Lecroq. Sequential multiple string matching. In Ming-Yang Kao, editor, *Encyclopedia of Algorithms*, pages 826–829. Springer, Heidelberg, 2008.
- [183] Maxime Crochemore, Alessandra Gabriele, Filippo Mignosi, and Mauri-ana Pesaresi. On the longest common factor problem. In G. Ausiello, J. Karhumäki, G. Mauri, and C.-H. Luke Ong, editors, *5th IFIP International Conference on Theoretical Computer Science*, volume 273 of *IFIP*, pages 143–155. Springer, Heidelberg, 2008. Milano, Italy, 7-10 September 2008.
- [184] Marie-Pierre Béal and Maxime Crochemore. Minimizing incomplete automata. In J. Pikorski, B. Watson, and A. Yli-Jyrä, editors, *Finite-State Methods and Natural Language Processing*, pages 9–16. Joint Research Centre, European Commission, 2008. Ispra, Italy, 11-12 September 2008.
- [185] Maxime Crochemore, Szilárd Zsolt Fazekas, Costas S. Iliopoulos, and Inuka Jayasekera. Bounds on powers in strings. In M. Ito and M. Toyama, editors, *Developments in Language Theory*, number 5257 in *LNCS*, pages 206–215. Springer, Heidelberg, 2008. Kyoto, Japan, 16-19 September 2008.
- [186] Maxime Crochemore and Ely Porat. Computing a longest increasing subsequence of length k in time $O(n \log \log k)$. In E. Gelenbe, S. Abramsky, and V. Sassone, editors, *Visions of computer science*, pages 69–74. The British Computer Society, Swindon, UK, 2008. Imperial College London, 22-24 September 2008.
- [187] Maxime Crochemore, Costas S. Iliopoulos, and Mohammad Sohel Rahman. Optimal prefix and suffix queries on texts. *Information Processing Letters*, 108(5):320–325, 2008. Presented at the International conference on Analysis of Algorithms (AofA), 2007.
- [188] Pavlos Antoniou, Maxime Crochemore, Costas S. Iliopoulos, Inuka Jayasekera, and Gad M. Landau. Conservative string covering of indeterminate strings. In Jan Holub and Jan Ždárek, editors, *Proceedings of the Prague Stringology Conference 2008*, pages 108–115, Czech Technical University in Prague, Czech Republic, 2008.

- [189] Maxime Crochemore and Thierry Lecroq. Alignments and approximate string matching. In G. Bel-Enguix, M. D. Jiménez-López, and C. Martín-Vide, editors, *New Developments in Formal Languages and Applications*, chapter 3, pages 59–94. Springer, Berlin/Heidelberg, 2008.
- [190] M. Crochemore and T. Lecroq. Efficient implementation of Boyer-Moore string-matching algorithm. <http://www-igm.univ-mly.fr/~lecroq/articles/cl2008.pdf>, 2008. Manuscript.
- [191] Julien Clément, Maxime Crochemore, and Giuseppina Rindone. Reverse engineering prefix tables. In S. Albers and J.-Y. Marion, editors, *26th International Symposium on Theoretical Aspects of Computer Science (STACS 2009)*, pages 289–300, Dagstuhl, Germany, 2009. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany. <http://drops.dagstuhl.de/opus/volltexte/2009/1825>.
- [192] Maxime Crochemore, Chiara Epifanio, Alessandra Gabriele, and Filippo Mignosi. From Nerode’s congruence to suffix automata with mismatches. *Theoretical Computer Science*, 410(37):3471–3480, 2009. DOI: 10.1016/j.tcs.2009.03.011.
- [193] Maxime Crochemore, Lucian Ilie, Costas S. Iliopoulos, Marcin Kubica, Wojciech Rytter, and Tomasz Waleń. LPF computation revisited. In J. Fiala, J. Kratochvíl, and M. Miller, editors, *IWOCA 2009*, number 5874 in LNCS, pages 158–169. Springer, Heidelberg, 2009.
- [194] Guillaume Blin, Maxime Crochemore, Sylvie Hamel, and Stéphane Vialette. Finding the median of three permutations under the Kendall-tau distance. Extended Abstract in the *7th annual international conference on Permutation Patterns*, University of Firenze, Italy, jul 2009.
- [195] Maxime Crochemore and Laura Giambruno. On-line construction of a small automaton for a finite set of words. In J. Holub and J. Žďárek, editors, *Proceedings of the Prague Stringology Conference 2009*, pages 15–28, Czech Technical University in Prague, Czech Republic, 2009.
- [196] Supaporn Chairungsee and Maxime Crochemore. Efficient computing of longest previous reverse factors. In Y. Shoukourian, editor, *Seventh International Conference on Computer Science and Information Technologies (CSIT 2009)*, pages 27–30. The National Academy of Sciences of Armenia Publishers, Yerevan, Armenia, 2009.
- [197] Maxime Crochemore, Lucian Ilie, and Wojciech Rytter. Repetitions in strings: algorithms and combinatorics. *Theoretical Computer Science*, 410(50):5227–5235, 2009.
- [198] Maxime Crochemore and Thierry Lecroq. Suffix tree. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems*, pages 2876–2880. Springer US, 2009.

- [199] Maxime Crochemore and Thierry Lecroq. Trie. In Ling Liu and M. Tamer Özsu, editors, *Encyclopedia of Database Systems*, pages 3179–3182. Springer US, 2009.
- [200] Maxime Crochemore and Christophe Hancart. Pattern matching in strings. In M. J. Atallah and M. Blanton, editors, *Algorithms and Theory of Computation Handbook*, chapter 13. CRC Press, 2010.
- [201] Maxime Crochemore and Thierry Lecroq. Text data compression algorithms. In M. J. Atallah and M. Blanton, editors, *Algorithms and Theory of Computation Handbook*, chapter 14. CRC Press, 2010.
- [202] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Wojciech Rytter, and Tomasz Waleń. Efficient algorithms for two extensions of the LPF table: the power of Suffix Arrays. In J. van Leeuwen, A. Muscholl, D. Peleg, J. Pokorný, and B. Rumpe, editors, *SOFSEM 2010: Theory and Practice of Computer Science, 36th Conference on Current Trends in Theory and Practice of Computer Science, Spindleruv Mlýn, Czech Republic*, number 5901 in LNCS, pages 296–307, Berlin, 2010. Springer.
- [203] Maxime Crochemore, Costas S. Iliopoulos, and Solon P. Pissis. A parallel algorithm for fixed-length approximate string-matching with k -mismatches. In Tapani Elomaa, Heikki Mannila, and Pekka Orponen, editors, *Algorithms and Applications*, number 6060 in LNCS, pages 92–101. Springer, 2010.
- [204] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. On the maximal number of cubic runs in a string. In A.-H. Dediu, H. Fernau, and C. Martin-Vide, editors, *LATA 2010*, number 6031 in LNCS, pages 227–238. Springer, Heidelberg, 2010. See <http://arxiv.org/abs/0907.2157>.
- [205] Maxime Crochemore, Costas S. Iliopoulos, Solon P. Pissis, and German Tischler. Cover array string reconstruction. In A. Amir and L. Parida, editors, *Combinatorial Pattern Matching*, number 6129 in LNCS, pages 251–259. Springer, Heidelberg, 2010.
- [206] Maxime Crochemore, Marek Cygan, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. Algorithms for three versions of the shortest common superstring problem. In A. Amir and L. Parida, editors, *Combinatorial Pattern Matching*, number 6129 in LNCS, pages 299–309. Springer, Heidelberg, 2010.
- [207] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Mohammad Sohel Rahman, and Tomasz Waleń. Finding patterns in given intervals. *Fundamenta Informaticae*, 101(3):173–186, 2010. Extended version of [170].

- [208] Maxime Crochemore and Ely Porat. Fast computation of a longest increasing subsequence and application. *Information and Computation*, 208(9):1054–1059, 2010.
- [209] Maxime Crochemore and Dov M. Gabbay. Reactive links to save automata states. In J. Holub and J. Zd’árek, editors, *Prague Stringology Conference*, pages 1–8. Czech Technical University in Prague, 2010. ISBN 978-80-01-04597-8.
- [210] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radziszewski, Wojciech Rytter, and Tomasz Waleń. New simple efficient algorithms computing powers and runs in strings. In J. Holub and J. Zd’árek, editors, *Prague Stringology Conference*, pages 138–149. Czech Technical University in Prague, 2010. ISBN 978-80-01-04597-8.
- [211] Golnaz Badkobeh and Maxime Crochemore. Bounded number of squares in infinite repetition-constrained binary words. In J. Holub and J. Zd’árek, editors, *Prague Stringology Conference*, pages 161–166. Czech Technical University in Prague, 2010. ISBN 978-80-01-04597-8.
- [212] Maxime Crochemore, Szilárd Zsolt Fazekas, Costas S. Iliopoulos, and Inuka Jayasekera. Number of occurrences of powers in strings. *International Journal of Foundations of Computer Science*, 21(4):535–547, 2010.
- [213] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radziszewski, Wojciech Rytter, and Tomasz Waleń. Extracting powers and periods in a string from its runs structure. In E. Chávez and S. Lonardi, editors, *String Processing and Information Retrieval - SPIRE 2010*, number 6393 in LNCS, pages 258–269. Springer, 2010.
- [214] Maxime Crochemore and German Tischler. The gapped suffix arrays: a new index structure for fast approximate matching. In Edgar Chávez and Stefano Lonardi, editors, *String Processing and Information Retrieval - SPIRE 2010*, number 6393 in LNCS, pages 359–364. Springer, 2010.
- [215] Guillaume Blin, Maxime Crochemore, Sylvie Hamel, and Stéphane Vialette. Medians of an odd number of permutations. *Pure Mathematics and Applications*, 21(2):161–175, 2010.
- [216] Guillaume Blin, Maxime Crochemore, and Stéphane Vialette. Algorithmic aspect of arc-annotated sequences. In M. Elloumi and A. Y. Zomaya, editors, *Algorithmic in Computational Molecular Biology: Techniques, Approaches and Applications*, chapter 6, pages 113–128. Wiley, 2011.
- [217] Maxime Crochemore and German Tischler. Computing longest previous non-overlapping factors. *Information Processing Letters*, 111(6):291–295, 2011.
- [218] Maxime Crochemore and Dov M. Gabbay. Reactive automata. *Information and Computation*, 209(4):692–704, 2011.

- [219] Maxime Crochemore, Lucian Ilie, and Liviu Tinta. The “runs” conjecture. *Theoretical Computer Science*, 412(27):2931–2941, 2011.
- [220] Maxime Crochemore, Lila Kari, Mehryar Mohri, and Dirk Nowotka. Combinatorial and algorithmic aspects of sequence processing (dagstuhl seminar 11081). *Dagstuhl Reports*, 1(2):47–66, 2011.
- [221] Golnaz Badkobeh, Supaporn Chairungsee, and Maxime Crochemore. Hunting redundancies in strings. In G. Mauri and A. Leporati, editors, *15th Conference on Developments in Language Theory*, number 6795 in LNCS, pages 1–14. Springer, 2011.
- [222] Golnaz Badkobeh and Maxime Crochemore. Finite-repetition threshold for infinite ternary words. In P. Ambrož, Š. Holub, and Z. Masáková, editors, *Proceedings 8th International Conference Words 2011*, volume 63 of *Electronic Proceedings in Theoretical Computer Science*, pages 37–43, Prague, CZ, 2011. Czech Technical University.
- [223] Michalis Christou, Maxime Crochemore, Ondrej Guth, Costas S. Iliopoulos, and Solon P. Pissis. On the right-seed array of a string. In B. Fu and D.-Z. Du, editors, *17th Annual International Computing and Combinatorics Conference (COCOON)*, number 6842 in LNCS, pages 492–502. Springer, 2011.
- [224] Marie-Pierre Béal, Maxime Crochemore, Bruce E. Moision, and Paul H. Siegel. Periodic finite-type shift spaces. *IEEE Transactions on Information Theory*, 57(6):3677–3691, 2011.
- [225] Michalis Christou, Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, Bartosz Szreder, and Tomasz Waleń. Efficient seeds computation revisited. In R. Giancarlo and G. Manzini, editors, *Combinatorial Pattern Matching*, number 6661 in LNCS, pages 350–363, Berlin, 2011. Springer.
- [226] Supaporn Chairungsee and Maxime Crochemore. Building phylogeny with minimal absent words. In B. Bouchou-Markhoff, J.-M. Champarnaud, and D. Maurel, editors, *Conference on Implementation and Application of Automata (CIAA)*, number 6807 in LNCS, pages 100–109. Springer, 2011.
- [227] Michalis Christou, Maxime Crochemore, Tomás Flouri, Costas S. Iliopoulos, Jan Janousek, Bořivoj Melichar, and Solon Pissis. Computing all subtree repeats in ordered ranked trees. In R. Grossi, F. Sebastiani, and F. Silvestri, editors, *String Processing and Information Retrieval, 18th International Symposium, SPIRE 2011, Pisa, Italy, October 17-21, 2011. Proceedings*, volume 7024 of LNCS, pages 338–343. Springer, 2011.
- [228] Anisa Al-Hafeeth, Maxime Crochemore, Lucian Ilie, Evguenia Kopylova, William F. Smyth, German Tischler, and Munina Yusufu. A comparison

- of index-based Lempel-Ziv LZ77 factorization algorithms. *ACM Comput. Surv.*, 45(1), 2012. Article 5.
- [229] Maxime Crochemore, Laura Giambruno, and Alessio Langiu. On-line construction of a small automaton for a finite set of words. *Int. J. Found. Comput. Sci.*, 23(2):281–301, 2012. Journal version of [195].
 - [230] Michalis Christou, Maxime Crochemore, and Costas S. Iliopoulos. Identifying all abelian periods of a string in quadratic time and relevant problems. *Int. J. Found. Comput. Sci.*, 23(6):1371–1384, 2012. See <http://arxiv.org/abs/1207.1307>.
 - [231] Michalis Christou, Maxime Crochemore, Tomás Flouri, Costas S. Iliopoulos, Jan Janousek, Borivoj Melichar, and Solon Pissis. Computing all subtree repeats in ordered trees. *Information Processing Letters*, 112(24):958–962, 2012. Presented at SPIRE 2011 [227].
 - [232] Golnaz Badkobeh and Maxime Crochemore. Fewest repetitions in infinite binary words. *RAIRO - Theoretical Informatics and Applications*, 46(1):17–31, 2012. See <http://arxiv.org/abs/1207.5723>, texttt-<http://dx.doi.org/10.1051/ita/2011109>.
 - [233] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. The maximal number of cubic runs in a word. *Journal Computer System Science*, 78(6):1828–1836, 2012. Presented at LATA 2010 [204].
 - [234] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Wojciech Rytter, and Tomasz Waleń. Efficient algorithms for three variants of the LPF table. *J. Discrete Algorithms*, 11:51–61, 2012.
 - [235] Maxime Crochemore, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. On the maximal sum of exponents of runs in a string. *J. Discrete Algorithms*, 14:29–36, 2012.
 - [236] Maxime Crochemore, Laura Giambruno, Alessio Langiu, Filippo Mignosi, and Antonio Restivo. Dictionary-symbolwise flexible parsing. *Journal of Discrete Algorithms*, 14:74–90, 2012. Special issue co-edited by C.S. Iliopoulos and W.F. Smyth.
 - [237] Michalis Christou, Maxime Crochemore, Ondrej Guth, Costas S. Iliopoulos, and Solon P. Pissis. On left and right seeds of a string. *J. Discrete Algorithms*, 17:31–44, 2012.
 - [238] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Mohammad Sohel Rahman, German Tischler, and Tomasz Waleń. Improved algorithms for the range next value problem and applications. *Theoretical Computer Science*, 434:23–34, 2012. Journal version of [172].

- [239] Supaporn Chairungsee and Maxime Crochemore. Using minimal absent words to build phylogeny. *Theoretical Computer Science*, 450(1):109–116, 2012. Journal version of [226].
- [240] Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, Wojciech Tyczynski, and Tomasz Waleń. The maximum number of squares in a tree. In Juha Kärkkänen and Jens Stoye, editors, *Combinatorial Pattern Matching - 23rd Annual Symposium, CPM 2012, Helsinki, Finland, July 3-5, 2012. Proceedings*, volume 7354 of *LNCS*, pages 27–40. Springer, 2012.
- [241] Ali Alatabbi, Maxime Crochemore, Costas S. Iliopoulos, and Tewogboye A. Okanlawon. Overlapping repetitions in weighted sequence. In Vidyasagar Potdar and Debajyoti Mukhopadhyay, editors, *CUBE International IT Conference & Exhibition, CUBE '12, Pune, India - September 03 - 06, 2012*, pages 435–440. ACM, 2012.
- [242] Ali Alatabbi, Maxime Crochemore, Jacqueline W. Daykin, and Laurent Mouchard. Lyndon fountains and the Burrows-Wheeler transform. In Vidyasagar Potdar and Debajyoti Mukhopadhyay, editors, *CUBE International IT Conference & Exhibition, CUBE '12, Pune, India - September 03 - 06, 2012*, pages 441–446. ACM, 2012.
- [243] Golnaz Badkobeh, Maxime Crochemore, and Chalita Toopsuwan. Computing the maximal-exponent repeats of an overlap-free string in linear time. In L. Calderón-Benavides, C. González-Caro, E. Chávez, and N. Ziviani, editors, *Symposium on String Processing and Information Retrieval*, number 7608 in *LNCS*, pages 61–72. Springer, 2012. Best paper award.
- [244] Maxime Crochemore, Tomasz Kociumaka, Wojciech Rytter, Chalita Toopsuwan, Wojciech Tyczyński, and Tomasz Waleń. *Algorithmics of repetitions, local periods and critical factorisation revisited*, pages 53–60. J. Holub and B. W. Watson and Jan Zdarek eds., Czech Technical University, Prague, 2012.
- [245] Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Jakub Pachocki, Jakub Radoszewski, Wojciech Rytter, Wojciech Tyczynski, and Tomasz Waleń. A note on efficient computation of all abelian periods in a string. *Inf. Process. Lett.*, 113(3):74–77, 2013.
- [246] Michalis Christou, Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, Bartosz Szreder, and Tomasz Waleń. Efficient seed computation revisited. *Theor. Comput. Sci.*, 483:171–181, 2013.
- [247] Maxime Crochemore, Lucian Ilie, Costas S. Iliopoulos, Marcin Kubica, Wojciech Rytter, and Tomasz Waleń. Computing the longest previous factor. *European Journal of Combinatorics*, 34(1):15–26, 2013. Guest editors: J. Kratochvíl, M. Miller. Presented at IWOCA 2009 [193].

- [248] Alberto Apostolico, Maxime Crochemore, Martin Farach-Colton, Zvi Galil, and S. Muthukrishnan. Forty years of text indexing. In J. Fischer and P. Sanders, editors, *Combinatorial Pattern Matching*, number 7922 in LNCS, pages 1–10. Springer, 2013.
- [249] Mika Amit, Maxime Crochemore, and Gad M. Landau. Locating all maximal approximate runs in a string. In J. Fischer and P. Sanders, editors, *Combinatorial Pattern Matching*, number 7922 in LNCS, pages 13–27. Springer, 2013.
- [250] Maxime Crochemore, Roberto Grossi, Juha Kärkkäinen, and Gad M. Landau. A constant-space comparison-based algorithm for computing the Burrows-Wheeler transform. In J. Fischer and P. Sanders, editors, *Combinatorial Pattern Matching*, number 7922 in LNCS, pages 74–82. Springer, 2013.
- [251] Manolis Christodoulakis, Michalis Christou, Maxime Crochemore, and Costas S. Iliopoulos. Overlapping factors in words. *Australasian Journal of Combinatorics*, 57:49–64, 2013.
- [252] Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Alessio Langiu, Solon Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. Order-preserving incomplete suffix trees and order-preserving indexes. In O. Kurland, M. Lewenstein, and E. Porat, editors, *String Processing and Information Retrieval (SPIRE)*, number 8214 in LNCS, pages 84–95. Springer, 2013.
- [253] Maxime Crochemore and Jacqueline W. Daykin, editors. *StringMasters 2011*. Elsevier, 2013. Special issue of *J. Discrete Algorithms* 20:1-2, 2013.
- [254] Joong Chae Na, Heejin Park, Maxime Crochemore, Jan Holub, Costas S. Iliopoulos, Laurent Mouchard, and Kunsoo Park. Suffix tree of an alignment: An efficient index for similar data. In T. Lecroq and L. Mouchard, editors, *IWOCA*, number 8288 in LNCS, pages 337–348. Springer, 2013.
- [255] Maxime Crochemore, Alessio Langiu, and Filippo Mignosi. The rightmost equal-cost position problem. In J. A. Storer and M. W. Marcellin, editors, *2013 Data Compression Conference*, pages 421–430, Los Alamitos, CA, 2013. IEEE Computer Society. Snowbird, UT, USA, 20-22 March 2013.
- [256] Maxime Crochemore, Alessio Langiu, Filippo Mignosi, and Mario Mirisola. Longest common substrings, related problems and applications. In M. Elloumi and A. Y. Zomaya, editors, *Biological Knowledge, Discovery Handbook*, chapter 1, pages 3–27. John Wiley & Sons Inc, 2013.
- [257] Maxime Crochemore, Alessio Langiu, and M. Sohel Rahman. Indexing a sequence for mapping reads with a single mismatch. *Philosophical Transactions of the Royal Society A*, 372(2016):1–18, 2014. Article ID 20130167.

- [258] Maxime Crochemore, James D. Currie, Gregory Kucherov, and Dirk Nowotka. Combinatorics and Algorithmics of Strings (Dagstuhl Seminar 14111). *Dagstuhl Reports*, 4(3):28–46, 2014. Keywords: combinatorics on words, string algorithms, automata.
- [259] Edlano Silva de Moura and Maxime Crochemore, editors. *String Processing and Information Retrieval - 21st International Symposium, SPIRE 2014, Ouro Preto, Brazil, October 20-22, 2014. Proceedings*, volume 8799 of *Lecture Notes in Computer Science*. Springer, 2014.
- [260] Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Covering problems for partial words and for indeterminate strings. In Hee-Kap Ahn and Chan-Su Shin, editors, *Algorithms and Computation - 25th International Symposium, ISAAC 2014, Jeonju, Korea, December 15-17, 2014, Proceedings*, volume 8889 of *Lecture Notes in Computer Science*, pages 220–232. Springer, 2014.
- [261] Golnaz Badkobeh, Maxime Crochemore, and Chalita Toopsuwan. Maximal anti-exponent of gapped palindromes. In *Fourth International Conference on Digital Information and Communication Technology and its Applications - DICTAP 2014, Bangkok, Thailand, May 6-8, 2014*, pages 205–210. IEEE, 2014.
- [262] Maxime Crochemore, Alessio Langiu, and Filippo Mignosi. Note on the greedy parsing optimality for dictionary-based text compression. *Theoretical Computer Science*, 525:55–59, 2014. See <http://arxiv.org/abs/1211.5350>.
- [263] Manolis Christodoulakis, Michalis Christou, Maxime Crochemore, and Costas Iliopoulos. On the average number of regularities in a word. *Theoretical Computer Science*, 525:3–9, 2014.
- [264] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. Extracting powers and periods in a word from its runs structure. *Theoretical Computer Science*, 521:29–41, 2014. Journal version of [213].
- [265] Maxime Crochemore, Jacqueline W. Daykin, and Zsuzsanna Lipták, editors. *StringMasters 2012 & 2013 Special Issue — Volume 1*. Elsevier, 2014. Special issue of *J. Discrete Algorithms* 28, 2014.
- [266] Golnaz Badkobeh, Maxime Crochemore, and Michaël Rao. Finite repetition threshold for large alphabets. *RAIRO - Theor. Inf. and Appl.*, 48(4):419–430, 2014.
- [267] Manolis Christodoulakis, Michalis Christou, Maxime Crochemore, and Costas Iliopoulos. Abelian borders in binary words. *Discrete Applied Mathematics*, 171:141–146, 2014.

- [268] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, Krzysztof Stencel, and Tomasz Walen. New simple efficient algorithms computing powers and runs in strings. *Discrete Applied Mathematics*, 163:258–267, 2014.
- [269] Maxime Crochemore and Thierry Lecroq. Pattern matching and text compression algorithms. In Teofilo F. Gonzalez, Jorge Diaz-Herrera, and Allen Tucker, editors, *Computing Handbook, Third Edition: Computer Science and Software Engineering*, pages 15: 1–57. CRC Press, 2014.
- [270] Maxime Crochemore, Costas Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Alessio Langiu, Jakub Radoszewski, Wojciech Rytter, B. Szreder, and Tomasz Walen. A note on the longest common compatible prefix problem for partial words. *Journal of Discrete Algorithms*, 34:49–53, 2015. <http://dx.doi.org/10.1016/j.jda.2015.05.003>.
- [271] Maxime Crochemore, Roberto Grossi, Juha Kärkkäinen, and Gad M. Landau. Computing the Burrows-Wheeler transform in place and in small space. *J. Discrete Algorithms*, 32:44–52, 2015.
- [272] Maxime Crochemore, Jacqueline W. Daykin, and Zsuzsanna Lipták, editors. *StringMasters 2012 & 2013 Special Issue — Volume 2*. Elsevier, 2015. Special issue of *J. Discrete Algorithms* 32, 2015.
- [273] Golnaz Badkobeh and Maxime Crochemore. Infinite binary words containing repetitions of odd period. *Information Processing Letters*, 115(5):543–547, 2015.
- [274] Manolis Christodoulakis, Michalis Christou, Maxime Crochemore, and Costas Iliopoulos. On the appearance of seeds in words. *Journal of Combinatorial Mathematics and Combinatorial Computing*, 95:147–160, 2015.
- [275] Maxime Crochemore and Thierry Lecroq. String matching. In Ming-Yang Kao, editor, *Encyclopedia of Algorithms*, pages 2113–2117. Springer, 2016.
- [276] Maxime Crochemore and Thierry Lecroq. Multiple string matching. In Ming-Yang Kao, editor, *Encyclopedia of Algorithms*, pages 1378–1382. Springer, 2016.
- [277] Maxime Crochemore and Wojciech Rytter. Squares and repetitions. In Ming-Yang Kao, editor, *Encyclopedia of Algorithms*, pages 2056–2060. Springer, 2016.
- [278] Golnaz Badkobeh, Maxime Crochemore, Costas Iliopoulos, and Marcin Kubica. Text redundancies. In V. Berthé and M. Rigo, editors, *Combinatorics, Words and Symbolic Dynamics*, chapter 5, pages 151–174. Cambridge University Press, 2016.

- [279] Maxime Crochemore, Gabriele Fici, Robert Mercas, and Solon P. Pissis. Linear-time sequence comparison using minimal absent words & applications. In Evangelos Kranakis, Gonzalo Navarro, and Edgar Chávez, editors, *LATIN 2016: Theoretical Informatics - 12th Latin American Symposium, Ensenada, Mexico, April 11-15, 2016, Proceedings*, volume 9644 of *Lecture Notes in Computer Science*, pages 334–346. Springer, 2016.
- [280] Maxime Crochemore, Roman Kolpakov, and Gregory Kucherov. Optimal bounds for computing α -gapped repeats. In A.-H. Dediu, J. Janousek, C. Martín-Vide, and B. Truthe, editors, *Language and Automata Theory and Applications - 10th International Conference, LATA 2016, Prague, Czech Republic, March 14-18, 2016, Proceedings*, volume 9618 of *Lecture Notes in Computer Science*, pages 245–255. Springer, 2016.
- [281] Golnaz Badkobeh, Maxime Crochemore, Manal Mohamed, and Chalita Toopsuwan. Efficient computation of maximal anti-exponent in palindrome-free strings. *Theor. Comput. Sci.*, 656:241–248, 2016. In honor of Bill Smyth.
- [282] Maxime Crochemore and Robert Mercas. On the density of Lyndon roots in factors. *Theoretical Computer Science*, 656:234–240, 2016. In honor of Bill Smyth.
- [283] Maxime Crochemore, Chiara Epifanio, Roberto Grossi, and Filippo Mignosi. Linear-size suffix tries. *Theor. Comput. Sci.*, 638:171–178, 2016.
- [284] Maxime Crochemore, Costas Iliopoulos, Tomasz Kociumaka, Marcin Kubica, Alessio Langiu, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Order-preserving indexing. *Theor. Comput. Sci.*, 638:122–135, 2016.
- [285] Maxime Crochemore, Costas S. Iliopoulos, Ritu Kundu, Manal Mohamed, and Fatima Vayani. Linear algorithm for conservative degenerate pattern matching. *Eng. Appl. of AI*, 51:109–114, 2016.
- [286] Alberto Apostolico, Maxime Crochemore, Martin Farach-Colton, Zvi Galil, and S. Muthukrishnan. 40 years of suffix trees. *Communications of the ACM*, 59(4):66–73, 2016.
- [287] Golnaz Badkobeh and Maxime Crochemore. Computing maximal-exponent factors in an overlap-free string. *Journal of Computer and System Sciences*, 82(3):477–487, 2016.
- [288] Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Ritu Kundu, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Near-optimal computation of runs over general alphabet via non-crossing LCE queries. In Shunsuke Inenaga, Kunihiro Sadakane, and Tetsuya Sakai, editors, *String Processing and Information Retrieval - 23rd International Symposium, SPIRE 2016, Beppu, Japan, October 18-20,*

2016, *Proceedings*, volume 9954 of *Lecture Notes in Computer Science*, pages 22–34, 2016.

- [289] Michalis Christou, Maxime Crochemore, and Costas S. Iliopoulos. Quasiperiodicities in Fibonacci strings. *Ars Comb.*, 129:211–225, 2016.
- [290] Mohammad Saifur Rahman, Ali Alatabbi, Tanver Athar, Maxime Crochemore, and M. Sohel Rahman. Absent words and the (dis)similarity analysis of dna sequences: an experimental study. *BMC Research Notes*, 9(186):1–8, 2016.
- [291] Maxime Crochemore, Costas S. Iliopoulos, Alessio Langiu, and Filippo Mignosi. The longest common substring problem. *Mathematical Structures in Computer Science*, 27(2):277–295, 2017.
- [292] Golnaz Badkobeh, Maxime Crochemore, and Robert Mercas. Counting maximal-exponent factors in words. *Theoretical Computer Science*, 658:27–35, 2017. In honor of A. Restivo.
- [293] Maxime Crochemore, Costas Iliopoulos, Tomasz Kociumaka, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Covering problems for partial words and for indeterminate strings. *Theoretical Computer Science*, 698:25–39, 2017. In honor of Raffaele Giancarlo.
- [294] Mika Amit, Maxime Crochemore, Gad M. Landau, and Dina Sokol. Locating maximal approximate runs in a string. *Theoretical Computer Science*, 700(Supplement C):45–62, 2017.
- [295] Supaporn Chairungsee and Maxime Crochemore. Longest previous non-overlapping factors table computation. In Xiaofeng Gao, Hongwei Du, and Meng Han, editors, *Combinatorial Optimization and Applications - 11th International Conference, COCOA 2017, Shanghai, China, December 16–18, 2017, Proceedings, Part II*, volume 10628 of *Lecture Notes in Computer Science*, pages 483–491. Springer, 2017.
- [296] Panagiotis Charalampopoulos, Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Efficient enumeration of non-equivalent squares in partial words with few holes. In Yixin Cao and Jianer Chen, editors, *Computing and Combinatorics - 23rd International Conference, COCOON 2017, Hong Kong, China, August 3–5, 2017, Proceedings*, volume 10392 of *Lecture Notes in Computer Science*, pages 99–111. Springer, 2017.
- [297] Maxime Crochemore, Alice Héliou, Gregory Kucherov, Laurent Mouchard, Solon P. Pissis, and Yann Ramusat. Minimal absent words in a sliding window and applications to on-line pattern matching. In Ralf Klasing and Marc Zeitoun, editors, *Fundamentals of Computation Theory - 21st International Symposium, FCT 2017, Bordeaux, France, September 11–13, 2017, Proceedings*, volume 10472 of *Lecture Notes in Computer Science*, pages 164–176. Springer, 2017.

- [298] Maxime Crochemore, Alexandre P. Francisco, Solon P. Pissis, and Cátia Vaz. Towards distance-based phylogenetic inference in average-case linear-time. In Russell Schwartz and Knut Reinert, editors, *17th International Workshop on Algorithms in Bioinformatics, WABI 2017, August 21-23, 2017, Boston, MA, USA*, volume 88 of *LIPICS*, pages 9:1–9:14. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2017.
- [299] João A. Carriço, Maxime Crochemore, Alexandre P. Francisco, Solon P. Pissis, Bruno Ribeiro-Gonçalves, and Cátia Vaz. Fast phylogenetic inference from typing data. *Algorithms for Molecular Biology*, 13(4):1–14, Feb 2018.
- [300] Panagiotis Charalampopoulos, Maxime Crochemore, and Solon P. Pissis. Preface. *Fundam. Inform.*, 163(3):i, 2018.
- [301] Panagiotis Charalampopoulos, Maxime Crochemore, Gabriele Fici, Robert Mercas, and Solon P. Pissis. Alignment-free sequence comparison using absent words. *Inf. Comput.*, 262:57–68, 2018.
- [302] Maxime Crochemore and Solon P. Pissis. Advances in algorithms & combinatorics on strings (honoring 60th birthday for prof. costas s. iliopoulos). *Theor. Comput. Sci.*, 710:1, 2018. Foreword.
- [303] Panagiotis Charalampopoulos, Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Linear-time algorithm for long LCF with k mismatches. In Gonzalo Navarro, David Sankoff, and Binhai Zhu, editors, *Annual Symposium on Combinatorial Pattern Matching, CPM 2018, July 2-4, 2018 - Qingdao, China*, volume 105 of *LIPICS*, pages 23:1–23:16. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2018.
- [304] Mai Alzamel, Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Ritu Kundu, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. How much different are two words with different shortest periods. In Lazaros S. Iliadis, Ilias Maglogiannis, and Vassilis P. Plagianakos, editors, *Artificial Intelligence Applications and Innovations - AIAI 2018 IFIP WG 12.5 International Workshops, SEDSEAL, 5G-PINE, MHDW, and HEALTHIOT, Rhodes, Greece, May 25-27, 2018, Proceedings*, volume 520 of *IFIP Advances in Information and Communication Technology*, pages 168–178. Springer, 2018.
- [305] Panagiotis Charalampopoulos, Maxime Crochemore, and Solon P. Pissis. On extended special factors of a word. In Travis Gagie, Alistair Moffat, Gonzalo Navarro, and Ernesto Cuadros-Vargas, editors, *String Processing and Information Retrieval - 25th International Symposium, SPIRE 2018, Lima, Peru, October 9-11, 2018, Proceedings*, volume 11147, pages 131–138. Springer, 2018.

- [306] Maxime Crochemore and Thierry Lecroq. Suffix tree. In Ling Liu and M. Tamer Özsü, editors, *Encyclopedia of Database Systems, Second Edition*. Springer, 2018.
- [307] Maxime Crochemore and Thierry Lecroq. Trie. In Ling Liu and M. Tamer Özsü, editors, *Encyclopedia of Database Systems, Second Edition*. Springer, 2018.
- [308] Maxime Crochemore, Roman Kolpakov, and Gregory Kucherov. Optimal bounds for computing α -gapped repeats. *Inf. Comput.*, 268, 2019.
- [309] Panagiotis Charalampopoulos, Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Solon P. Pissis, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. Efficient enumeration of non-equivalent squares in partial words with few holes. *Journal of Combinatorial Optimization*, 37(2):501–522, 2019.
- [310] Maxime Crochemore and Jakub Radoszewski. Special issue in honor of the 70th birthday of prof. wojciech rytter. *Theor. Comput. Sci.*, 792:1, 2019.
- [311] Mai Alzamel, Maxime Crochemore, Costas S. Iliopoulos, Tomasz Kociumaka, Jakub Radoszewski, Wojciech Rytter, Juliusz Straszynski, Tomasz Walen, and Wiktor Zuba. Quasi-linear-time algorithm for longest common circular factor. In Nadia Pisanti and Solon P. Pissis, editors, *30th Annual Symposium on Combinatorial Pattern Matching, CPM 2019, June 18-20, 2019, Pisa, Italy*, volume 128 of *LIPICS*, pages 25:1–25:14. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2019.
- [312] Golnaz Badkobeh, Hideo Bannai, Maxime Crochemore, Tomohiro I, Shunsuke Inenaga, and Shihō Sugimoto. k -abelian pattern matching: Revisited, corrected, and extended. In Jan Holub and Jan Zdárek, editors, *Prague Stringology Conference 2019, Prague, Czech Republic, August 26-28, 2019*, pages 29–40. Czech Technical University in Prague, Faculty of Information Technology, Department of Theoretical Computer Science, 2019.
- [313] Maxime Crochemore, Alice Héliou, Gregory Kucherov, Laurent Mouchard, Solon P. Pissis, and Yann Ramusat. Absent words in a sliding window with applications. *Inf. Comput.*, 270, 2020.
- [314] Maxime Crochemore and Luís M. S. Russo. Cartesian and Lyndon trees. *Theoretical Computer Science*, 806:1–9, February 2020. <http://arxiv.org/abs/1712.08749>.
- [315] Maxime Crochemore, Costas S. Iliopoulos, Jakub Radoszewski, Wojciech Rytter, Juliusz Straszynski, Tomasz Walen, and Wiktor Zuba. Shortest covers of all cyclic shifts of a string. In M. Sohel Rahman, Kunihiko Sadakane, and Wing-Kin Sung, editors, *WALCOM: Algorithms and*

Computation - 14th International Conference, WALCOM 2020, Singapore, March 31 - April 2, 2020, Proceedings, volume 12049 of *Lecture Notes in Computer Science*, pages 69–80. Springer, 2020.

- [316] Maxime Crochemore, Costas S. Iliopoulos, Jakub Radoszewski, Wojciech Rytter, Juliusz Straszynski, Tomasz Walen, and Wiktor Zuba. Internal quasiperiod queries. In Christina Boucher and Sharma V. Thankachan, editors, *String Processing and Information Retrieval - 27th International Symposium, SPIRE 2020, Orlando, FL, USA, October 13-15, 2020, Proceedings*, volume 12303 of *Lecture Notes in Computer Science*, pages 60–75. Springer, 2020. <https://arxiv.org/abs/2007.13471>.
- [317] Golnaz Badkobeh and Maxime Crochemore. Left Lyndon tree construction. In Jan Holub and Jan Zdárek, editors, *Prague Stringology Conference 2020, Prague, Czech Republic, August 31-September 2, 2020*, pages 84–95. Czech Technical University in Prague, Faculty of Information Technology, Department of Theoretical Computer Science, 2020. <https://arxiv.org/abs/2011.12742>.
- [318] Maxime Crochemore, Thierry Lecroq, and Wojciech Rytter. *125 Problems in Text Algorithms—with solutions*. Cambridge University Press, 2021. 334 pages.
- [319] Maxime Crochemore, Costas S. Iliopoulos, Jakub Radoszewski, Wojciech Rytter, Juliusz Straszynski, Tomasz Walen, and Wiktor Zuba. Shortest covers of all cyclic shifts of a string. *Theor. Comput. Sci.*, 866:70–81, 2021.
- [320] Golnaz Badkobeh and Maxime Crochemore. Linear construction of a left Lyndon tree. *Inf. Comput.*, 285(Part):104884, 2022.
- [321] Marie-Pierre Béal and Maxime Crochemore. Checking whether a word is hamming-isometric in linear time. *Theor. Comput. Sci.*, 933:55–59, 2022.
- [322] Maxime Crochemore, Costas S. Iliopoulos, Jakub Radoszewski, Wojciech Rytter, Juliusz Straszynski, Tomasz Walen, and Wiktor Zuba. Linear-time computation of shortest covers of all rotations of a string. In Hideo Bannai and Jan Holub, editors, *33rd Annual Symposium on Combinatorial Pattern Matching, CPM 2022, June 27-29, 2022, Prague, Czech Republic*, volume 223 of *LIPICS*, pages 22:1–22:15. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022.
- [323] Golnaz Badkobeh, Maxime Crochemore, Jonas Ellert, and Cyril Nicaud. Back-to-front online lyndon forest construction. In Hideo Bannai and Jan Holub, editors, *33rd Annual Symposium on Combinatorial Pattern Matching, CPM 2022, June 27-29, 2022, Prague, Czech Republic*, volume 223 of *LIPICS*, pages 13:1–13:23. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022.
- [324] Marie-Pierre Béal and Maxime Crochemore. Fast detection of specific fragments against a set of sequences. *CoRR*, abs/2208.03451, 2022.