

## 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)*, volume 249 of *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)*, volume 249 of *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)*, volume 324 of *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)*, volume 338 of *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)*, volume 377 of *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)*, volume 386 of *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)*, volume 415 of *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)*, volume 431 of *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. Rován, editor, *MFCS'90 (Banská Bystrica, 1990)*, volume 452 of *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 Chytil, 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 Czumał, Leszek Gąsieniec, Stefan Jarominek, Thierry Lecroq, Wojciech Plandowski, and Wojciech Rytter. Speeding up two string-matching algorithms. In A. Finkel and M. Jantzen, editors, *STACS'92 (Cachan, 1992)*, volume 577 of *LNCS*, pages 589–600. Springer-Verlag, 1992.
- [55] Maxime Crochemore, Artur Czumał, Leszek Gąsieniec, Stefan Jarominek, Thierry Lecroq, Wojciech Plandowski, 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)*, volume 644 of *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)*, volume 654 of *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)*, volume 684 of *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)*, volume 807 of *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*, volume 900 of *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)*, volume 911 of *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)*, volume 1075 of *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. Guimarães, 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 V erin. Direct construction of compact directed acyclic word graphs. In A Apostolico and J. Hein, editors, *Combinatorial Pattern Matching (Aarhus, 1997)*, volume 1264 of *LNCS*, pages 116–129. Springer-Verlag, 1997.
- [83] Maxime Crochemore and Renaud V erin. On compact directed acyclic word graphs. In J. Mycielski, G. Rozenberg, and A. Salomaa, editors, *Structures in Logic and Computer Science*, volume 1261 of *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)*, volume 1450 of *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 V erin. 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)*, volume 1644 of *LNCS*, pages 261–270. Springer-Verlag, 1999. Rapport I.G.M. 98-10, Universit e de Marne-la-Vall e.

- [97] Maxime Crochemore and Mike Paterson, editors. *Combinatorial Pattern Matching (Warwick, 1999)*, volume 1645 of *LNCS*. Springer-Verlag, 1999. <http://link.springer.de/link/service/series/0558/tocs/t1645.htm>.
- [98] Emiliios 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)*, volume 1725 of *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*, volume 1963 of *LNCS*, pages 306–317. Springer-Verlag, 2000.
- [106] Maxime Crochemore, Costas 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 Gaśieniec, 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)*, volume 2089 of *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](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 subquadratic 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 Rouz e, 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*, volume 2373 of *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] Emiliios 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*, volume 2476 of *LNCS*, pages 58–64. Springer-Verlag, 2002.
- [124] Maxime Crochemore and Gonzalo Navarro. Improved antictionary 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*, volume 2608 of *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*, volume 2676 of *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] Amihod 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*, volume 2676 of *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  $\delta$ -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. Rován and P. Vojtáš, editors, *Mathematical Foundations of Computer Science (MFCS)*, volume 2747 of *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 subquadratic 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  $(\delta, \gamma)$ -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)*, volume 2857 of *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] Amihoud 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*, volume 2976 of *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*, volume 3109 of *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)*, volume 3246 of *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 Iliopoulos, Gonzalo Navarro, Yoan Pinzon, and Alejandro Salinger. Bit-parallel  $(\gamma, \delta)$ -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*, volume 3537 of *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*, volume 3669 of *LNCS*, pages 426–437. Springer-Verlag, 2005.
- [156] Emiliios 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. Mitrană, 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*, volume 4094 of *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 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] Emiliós 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*, volume 4783 of *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*, volume 4708 of *LNCS*, pages 465–476. Springer-Verlag, Berlin, 2007.
- [170] Maxime Crochemore, Costas Iliopoulos, and Mohammad Sohel Rahman. Finding patterns in given intervals. In L. Kučera and A. Kučera, editors, *Mathematical Foundations of Computer Science*, volume 4708 of *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 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*, volume 5029 of *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 Mauriana 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 Iliopoulos, and Inuka Jayasekera. Bounds on powers in strings. In M. Ito and M. Toyama, editors, *Developments in Language Theory*, volume 5257 of *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 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 Žďárek, 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-mlv.fr/~lecroq/articles/cl2008.pdf>, 2008. Manuscript.
- [191] Julien Clement, 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 Iliopoulos, Marcin Kubica, Wojciech Rytter, and Tomasz Waleń. LPF computation revisited. In J. Fiala, J. Kratochvíl, and M. Miller, editors, *IWOCA 2009*, volume 5874 of *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, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. On the maximal number of highly periodic runs in a string. *CoRR*, abs/0907.2157, 2009. In Arxiv.
- [201] 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.
- [202] 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.
- [203] Maxime Crochemore, Costas 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*, volume 5901 of *LNCS*, pages 296–307, Berlin, 2010. Springer.
- [204] Maxime Crochemore, Costas S. Iliopoulos, and Solon P. Pissis. A parallel algorithm for fixed-length approximate string-matching with  $k$ -mismatches. In Tapio Elomaa, Heikki Mannila, and Pekka Orponen, editors, *Algorithms and Applications*, volume 6060 of *Lecture Notes in Computer Science*, pages 92–101. Springer, 2010.
- [205] 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*, volume 6031 of *LNCS*, pages 227–238. Springer, Heidelberg, 2010. CoRR, abs/0907.2157, In Arxiv.
- [206] 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*, volume 6129 of *LNCS*, pages 251–259. Springer, Heidelberg, 2010.
- [207] 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*, volume 6129 of *LNCS*, pages 299–309. Springer, Heidelberg, 2010.
- [208] Maxime Crochemore, Costas 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].

- [209] Maxime Crochemore and Ely Porat. Fast computation of a longest increasing subsequence and application. *Information and Computation*, 208(9):1054–1059, 2010.
- [210] 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.
- [211] Maxime Crochemore, Costas S. Iliopoulos, Marcin Kubica, Jakub Radoszewski, 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.
- [212] 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.
- [213] Maxime Crochemore, Szilárd Zsolt Fazekas, Costas Iliopoulos, and Inuka Jayasekera. Number of occurrences of powers in strings. *International Journal of Foundations of Computer Science*, 21(4):535–547, 2010.
- [214] Maxime Crochemore, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Walen. On the maximal sum of exponents of runs in a string. *CoRR*, abs/1003.4866, 2010.
- [215] Maxime Crochemore, Costas Iliopoulos, Marcin Kubica, Jakub Radoszewski, Wojciech Rytter, and Tomasz Waleń. Extracting powers and periods in a string from its runs structure. In Edgar Chávez and Stefano Lonardi, editors, *String Processing and Information Retrieval - SPIRE 2010*, volume 6393 of *Lecture Notes in Computer Science*, pages 258–269. Springer, 2010.
- [216] Maxime Crochemore and German Tischler. 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*, volume 6393 of *Lecture Notes in Computer Science*, pages 359–364. Springer, 2010.
- [217] 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.
- [218] Maxime Crochemore and German Tischler. Computing longest previous non-overlapping factors. *Information Processing Letters*, 111:291–295, 2011.

- [219] Maxime Crochemore and Dov M. Gabbay. Reactive automata. *Information and Computation*, 209(4):692–704, 2011.
- [220] Maxime Crochemore, Lucian Ilie, and Liviu Tinta. The “runs” conjecture. *Theoretical Computer Science*, 412(27):2931–2941, 2011.
- [221] 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.
- [222] 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*, volume 6795 of *Lecture Notes in Computer Science*, pages 1–14. Springer, 2011.
- [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)*, volume 6842 of *Lecture Notes in Computer Science*, 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 Walen. Efficient seeds computation revisited. In R. Giancarlo and G. Manzini, editors, *Combinatorial Pattern Matching*, volume 6661 of *Lecture Notes in Computer Science*, 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)*, volume 6807 of *Lecture Notes in Computer Science*, pages 100–109. Springer, 2011.