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XaoS [549]. **XML** [98].

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References

Wang:2007:E

- [1] Dongming Wang and Zhiming Zheng. Editorial. *Mathematics in Computer Science*, 1(1):1–2, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=1>.

Yap:2007:F

- [2] Chee K. Yap and Hoon Hong. Foreword. *Mathematics in Computer Science*, 1(1):3–7, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=3>.

Trefethen:2007:CNF

- [3] Lloyd N. Trefethen. Computing numerically with functions instead of numbers. *Mathematics in Computer Science*, 1(1):9–19, December 2007. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=9>.

Richardson:2007:ZTC

- [4] Daniel Richardson. Zero tests for constants in simple scientific computation. *Mathematics in Computer Science*, 1(1):21–37, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=21>.

Ghosh:2007:ACS

- [5] Sunayana Ghosh, Sylvain Petitjean, and Gert Vegter. Approximation by conic splines. *Mathematics in Computer Science*, 1(1):39–69, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=39>.

Sharma:2007:RAZ

- [6] Vikram Sharma. Robust approximate zeros in Banach space. *Mathematics in Computer Science*, 1(1):71–109, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=71>.

vanderHoeven:2007:EAC

- [7] Joris van der Hoeven. On effective analytic continuation. *Mathematics in Computer Science*, 1(1):111–175, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=111>.

ElDin:2007:TSC

- [8] Mohab Safey El Din. Testing sign conditions on a multivariate polynomial and applications. *Mathematics in Computer Science*, 1(1):177–207, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=1&spage=177>.

Wang:2007:F

- [9] Dongming Wang and Lihong Zhi. Foreword. *Mathematics in Computer Science*, 1(2):209–210, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=209>.

Zhou:2007:CGB

- [10] Meng Zhou and Franz Winkler. On computing Gröbner bases in rings of differential operators with coefficients in a ring. *Mathematics in Computer Science*, 1(2):211–223, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=211>.

Shemyakova:2007:PFS

- [11] Ekaterina Shemyakova. Parametric factorizations of second-, third- and Fourth-Order linear partial differential operators with a completely factorable

symbol on the plane. *Mathematics in Computer Science*, 1(2):225–237, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=225>.

Feinsilver:2007:IAF

- [12] Philip Feinsilver and René Schott. Inversion of analytic functions via canonical polynomials: a matrix approach. *Mathematics in Computer Science*, 1(2):239–251, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=239>.

Romanovski:2007:BBP

- [13] Valery G. Romanovski. Bifurcations of periodic points of some algebraic maps. *Mathematics in Computer Science*, 1(2):253–265, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=253>.

Pearson:2007:SSC

- [14] Jane M. Pearson and Noel G. Lloyd. Space saving calculation of symbolic resultants. *Mathematics in Computer Science*, 1(2):267–290, December 2007. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=267>.

Gu:2007:UCA

- [15] Nong Gu, Daniel Lazard, Fabrice Rouillier, and Yong Xiang. Using computer algebra to certify the global convergence of a numerical optimization process. *Mathematics in Computer Science*, 1(2):291–304, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=291>.

Zhang:2007:NMR

- [16] Ting Zhang and Bican Xia. A new method for real root isolation of univariate polynomials. *Mathematics in Computer Science*, 1(2):305–320, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=305>.

Sekigawa:2007:LPC

- [17] Hiroshi Sekigawa and Kiyoshi Shيرانagi. On the location of pseudozeros of a complex interval polynomial. *Mathematics in Computer Science*, 1(2):321–335, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=321>.

Graillat:2007:PSR

- [18] Stef Graillat. Pseudozero set of real multivariate polynomials. *Mathematics in Computer Science*, 1(2):337–352, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=2&spage=337>.

Corless:2007:PMP

- [19] Robert M. Corless and Nargol Rezvani. Pseudospectra of matrix polynomials that are expressed in alternative bases. *Mathematics in Computer Science*, 1(2):353–374, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-007-0010-x>.

Abbott:2007:TRE

- [20] John Abbott, Claudia Fassino, and Maria-Laura Torrente. Thinning out redundant empirical data. *Mathematics in Computer Science*, 1(2):375–392, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-007-0020-8>.

Janovitz-Freireich:2007:ARC

- [21] Itnuit Janovitz-Freireich, Lajos Rónyai, and Ágnes Szántó. Approximate radical for clusters: A global approach using Gaussian elimination or SVD. *Mathematics in Computer Science*, 1(2):393–425, December 2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-007-0013-7>.

Sun:2007:SLR

- [22] Dongxia Sun and Lihong Zhi. Structured low rank approximation of a Bezout matrix. *Mathematics in Computer Science*, 1(2):427–437, December

2007. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-007-0014-6>.

Kotsireas:2008:F

- [23] Ilias S. Kotsireas. Foreword. *Mathematics in Computer Science*, 1(3):439, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=439>.

Chen:2008:CSN

- [24] William Y. C. Chen, Andreas W. M. Dress, and Winking Q. Yu. Community structures of networks. *Mathematics in Computer Science*, 1(3):441–457, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=441>.

Ganzha:2008:ESH

- [25] Elena I. Ganzha, Valery M. Loginov, and Sergey P. Tsarev. Exact solutions of hyperbolic systems of kinetic equations. application to Verhulst model with random perturbation. *Mathematics in Computer Science*, 1(3):459–472, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=459>.

Yoshida:2008:IPS

- [26] Hiroshi Yoshida, Katsuhisa Horimoto, and Hirokazu Anai. Inference of prob-

abilities over a stochastic IL-system by quantifier elimination. *Mathematics in Computer Science*, 1(3):473–485, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=473>.

Kosub:2008:DRF

- [27] Sven Kosub. Dichotomy results for fixed-point existence problems for Boolean dynamical systems. *Mathematics in Computer Science*, 1(3):487–505, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=487>.

Niu:2008:AAS

- [28] Wei Niu and Dongming Wang. Algebraic approaches to stability analysis of biological systems. *Mathematics in Computer Science*, 1(3):507–539, March 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=3&spage=507>.

Chan:2008:F

- [29] Joseph Wun-Tat Chan and Maxime Crochemore. Foreword. *Mathematics in Computer Science*, 1(4):541–542, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=541>.

Chan:2008:NOC

- [30] H. L. Chan, T. W. Lam, W. K. Sung, P. W. H. Wong, and S. M. Yiu. Non-overlapping common substrings allowing mutations. *Mathematics in Computer Science*, 1(4):543–555, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=543>.

Iliopoulos:2008:NAP

- [31] Costas S. Iliopoulos, Laurent Mouchard, and M. Sohel Rahman. A new approach to pattern matching in degenerate DNA/RNA sequences and distributed pattern matching. *Mathematics in Computer Science*, 1(4):557–569, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=557>.

Tiskin:2008:SLS

- [32] Alexander Tiskin. Semi-local string comparison: Algorithmic techniques and applications. *Mathematics in Computer Science*, 1(4):571–603, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=571>.

Chen:2008:LZF

- [33] Gang Chen, Simon J. Puglisi, and W. F. Smyth. Lempel–Ziv factorization using less time & space. *Mathematics in Computer Science*, 1(4):605–623, June 2008. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=605>.

Beal:2008:UA

- [34] Marie-Pierre Béal, Eugen Czeizler, Jarkko Kari, and Dominique Perrin. Unambiguous automata. *Mathematics in Computer Science*, 1(4):625–638, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=625>.

Apostolico:2008:SUW

- [35] Alberto Apostolico and Cinzia Pizzi. Scoring unusual words with varying mismatch errors. *Mathematics in Computer Science*, 1(4):639–653, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=639>.

Giancarlo:2008:TCC

- [36] Raffaele Giancarlo, Davide Scaturro, and Filippo Utro. A tutorial on computational cluster analysis with applications to pattern discovery in microarray data. *Mathematics in Computer Science*, 1(4):655–672, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=655>.

Banerjee:2008:EAV

- [37] Satyajit Banerjee, Atish Datta Chowdhury, and Subhas Kumar Ghosh. Effi-

cient algorithms for variants of weighted matching and assignment problems. *Mathematics in Computer Science*, 1(4):673–688, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=673>.

Farago:2008:GTD

- [38] András Faragó. A general tractable density concept for graphs. *Mathematics in Computer Science*, 1(4):689–699, June 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=1&issue=4&spage=689>.

Plaice:2008:HBW

- [39] John Plaice and Mehmet A. Orgun. In honour of Bill Wadge. *Mathematics in Computer Science*, 2(1):1–3, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=1>.

Selivanov:2008:WRI

- [40] Victor Selivanov. Wadge reducibility and infinite computations. *Mathematics in Computer Science*, 2(1):5–36, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=5>.

Plaice:2008:LTI

- [41] John Plaice, Blanca Mancilla, and Gabriel Ditu. From Lucid to TransLucid: Iteration, dataflow, intensional and Cartesian programming. *Mathematics in Computer Science*, 2(1):37–61, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=37>.

Mancilla:2008:PWV

- [42] Blanca Mancilla and John Plaice. Possible worlds versioning. *Mathematics in Computer Science*, 2(1):63–83, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=63>.

Finkel:2008:WDI

- [43] Olivier Finkel. Wadge degrees of infinitary rational relations. *Mathematics in Computer Science*, 2(1):85–102, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=85>.

Orchard:2008:ILD

- [44] Dominic A. Orchard and Steve Matthews. Integrating Lucid’s declarative dataflow paradigm into object-orientation. *Mathematics in Computer Science*, 2(1):103–122, November 2008. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=103>.

Charalambidis:2008:EII

- [45] Angelos Charalambidis, Athanasios Grivas, Nikolaos S. Papaspyrou, and Panos Rondogiannis. Efficient intensional implementation for lazy functional languages. *Mathematics in Computer Science*, 2(1):123–141, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=123>.

Orgun:2008:KRR

- [46] Mehmet A. Orgun, Chuchang Liu, and Abhaya C. Nayak. Knowledge representation, reasoning and integration using temporal logic with clocks. *Mathematics in Computer Science*, 2(1):143–163, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=143>.

Orgun:2008:QHD

- [47] Mehmet A. Orgun. Querying historical data over multiple time-lines. *Mathematics in Computer Science*, 2(1):165–191, November 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=1&spage=165>.

Kerber:2008:F

- [48] Manfred Kerber. Foreword. *Mathematics in Computer Science*, 2(2):193–194, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=193>.

Aly:2008:ISS

- [49] Walaa Aly, Seiichi Uchida, and Masakazu Suzuki. Identifying subscripts and superscripts in mathematical documents. *Mathematics in Computer Science*, 2(2):195–209, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=195>.

Cohen:2008:APG

- [50] Arjeh M. Cohen, Jan Willem Knopper, and Scott H. Murray. Automatic proof of graph nonisomorphism. *Mathematics in Computer Science*, 2(2):211–229, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=211>.

Urban:2008:ABC

- [51] Josef Urban and Geoff Sutcliffe. ATP-based Cross-Verification of Mizar proofs: Method, systems, and first experiments. *Mathematics in Computer Science*, 2(2):231–251, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl>.

asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=231.

Autexier:2008:OTP

- [52] Serge Autexier, Christoph Benzmlüller, Dominik Dietrich, and Marc Wagner. Organization, transformation, and propagation of mathematical knowledge in Ω mega. *Mathematics in Computer Science*, 2(2):253–277, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=253>.

Kohlhase:2008:ULS

- [53] Michael Kohlhase. Using \LaTeX as a semantic markup format. *Mathematics in Computer Science*, 2(2):279–304, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=279>.

Altamimi:2008:MQL

- [54] Moody Ebrahim Altamimi and Abdou Youssef. A math query language with an expanded set of wildcards. *Mathematics in Computer Science*, 2(2):305–331, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=305>.

Youssef:2008:RRH

- [55] Abdou S. Youssef. Relevance ranking and hit description in math search. *Mathematics in Computer Science*, 2

(2):333–353, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=333>.

Coen:2008:SDE

- [56] Claudio Sacerdoti Coen and Stefano Zaccchiroli. Spurious disambiguation errors and how to get rid of them. *Mathematics in Computer Science*, 2(2):355–378, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=355>.

Davenport:2008:FEO

- [57] James H. Davenport and Paul Libbrecht. The freedom to extend OpenMath and its utility. *Mathematics in Computer Science*, 2(2):379–398, December 2008. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=2&spage=379>.

Anai:2009:F

- [58] Hirokazu Anai and Katsuhisa Horimoto. Foreword. *Mathematics in Computer Science*, 2(3):399–400, March 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=399>.

Tamura:2009:ASA

- [59] Takeyuki Tamura and Tatsuya Akutsu. Algorithms for singleton attractor de-

tection in planar and nonplanar AND/OR Boolean networks. *Mathematics in Computer Science*, 2(3):401–420, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=401>.

Siebert:2009:DBB

- [60] Heike Siebert. Deriving behavior of Boolean bioregulatory networks from subnetwork dynamics. *Mathematics in Computer Science*, 2(3):421–442, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=421>.

Boulier:2009:TAR

- [61] François Boulier, François Lemaire, Alexandre Sedoglavic, and Asli Ürgüplü. Towards an automated reduction method for polynomial ODE models of biochemical reaction systems. *Mathematics in Computer Science*, 2(3):443–464, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=443>.

Bortolussi:2009:HDS

- [62] Luca Bortolussi and Alberto Policriti. Hybrid dynamics of stochastic π -calculus. *Mathematics in Computer Science*, 2(3):465–491, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl>.

<http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=465>.

Sturm:2009:IAL

- [63] Thomas Sturm, Andreas Weber, Essam O. Abdel-Rahman, and M’hammed El Kahoui. Investigating algebraic and logical algorithms to solve Hopf bifurcation problems in algebraic biology. *Mathematics in Computer Science*, 2(3):493–515, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=493>.

ElKahoui:2009:SDF

- [64] M’hammed El Kahoui and Adamou Otto. Stability of disease free equilibria in epidemiological models. *Mathematics in Computer Science*, 2(3):517–533, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=517>.

McCaig:2009:IPS

- [65] Chris McCaig, Rachel Norman, and Caron Shankland. From individuals to populations: a symbolic process algebra approach to epidemiology. *Mathematics in Computer Science*, 2(3):535–556, March 2009. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=3&spage=535>.

Ilie:2009:CCE

- [66] Silvana Ilie, Robert M. Corless, and Chris Essex. The computational complexity of extrapolation methods. *Mathematics in Computer Science*, 2(4):557–566, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=557>.

Pikkarainen:2009:BMR

- [67] Hanna K. Pikkarainen and Josef Schicho. A Bayesian model for root computation. *Mathematics in Computer Science*, 2(4):567–586, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=567>.

Nabeshima:2009:RGB

- [68] Katsusuke Nabeshima. Reduced Gröbner bases in polynomial rings over a polynomial ring. *Mathematics in Computer Science*, 2(4):587–599, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=587>.

Kapur:2009:ACG

- [69] Deepak Kapur and Yongyang Cai. An algorithm for computing a Gröbner basis of a polynomial ideal over a ring with zero divisors. *Mathematics in Computer Science*, 2(4):601–634, December 2009. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=601>.

Alcazar:2009:GLB

- [70] Juan Gerardo Alcázar. Good local behavior of offsets to implicit algebraic curves. *Mathematics in Computer Science*, 2(4):635–652, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=635>.

Hellmuth:2009:LAP

- [71] Marc Hellmuth, Wilfried Imrich, Werner Klöckl, and Peter F. Stadler. Local algorithms for the prime factorization of strong product graphs. *Mathematics in Computer Science*, 2(4):653–682, December 2009. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=2&issue=4&spage=653>.

Miller:2010:F

- [72] Mirka Miller and Koichi Wada. Foreword. *Mathematics in Computer Science*, 3(1):1–2, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=1>.

Baumgart:2010:PBG

- [73] Matthias Baumgart. Partitioning bispinning graphs into spanning trees. *Mathematics in Computer Science*,

3(1):3–15, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=3>.

Fischer:2010:FRM

- [74] Johannes Fischer and Volker Heun. Finding range minima in the middle: Approximations and applications. *Mathematics in Computer Science*, 3(1):17–30, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=17>.

Fujita:2010:LCG

- [75] Satoshi Fujita. Loose cover of graphs. *Mathematics in Computer Science*, 3(1):31–38, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=31>.

Ichishima:2010:PLG

- [76] Rikio Ichishima and Akito Oshima. On partitional labelings of graphs. *Mathematics in Computer Science*, 3(1):39–45, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=39>.

Kutzelnigg:2010:IVC

- [77] Reinhard Kutzelnigg. An improved version of cuckoo hashing: Average case

analysis of construction cost and search operations. *Mathematics in Computer Science*, 3(1):47–60, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=47>.

Lee:2010:POS

- [78] Sof Anthony Lee. k -phase oscillator synchronization for graph coloring. *Mathematics in Computer Science*, 3(1):61–72, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=61>.

Mertzios:2010:PSE

- [79] George B. Mertzios and Walter Unger. Preemptive scheduling of equal-length jobs in polynomial time. *Mathematics in Computer Science*, 3(1):73–84, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=73>.

Mertzios:2010:OAF

- [80] George B. Mertzios and Walter Unger. An optimal algorithm for the k -fixed-endpoint path cover on proper interval graphs. *Mathematics in Computer Science*, 3(1):85–96, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=85>.

Sivan:2010:CCP

- [81] Balasubramanian Sivan, S. Harini, and C. Pandu Rangan. On conditional covering problem. *Mathematics in Computer Science*, 3(1):97–107, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=97>.

Tanaka:2010:PCC

- [82] Yuuki Tanaka and Yukio Shibata. On the pagenumber of the cube-connected cycles. *Mathematics in Computer Science*, 3(1):109–117, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=109>.

Tang:2010:NRE

- [83] Jianmin Tang, Yuqing Lin, and Mirka Miller. New results on EX graphs. *Mathematics in Computer Science*, 3(1):119–126, March 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=1&spage=119>.

Faugere:2010:F

- [84] Jean-Charles Faugère and Ludovic Perret. Foreword. *Mathematics in Computer Science*, 3(2):127–128, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=127>.

Otmani:2010:CTM

- [85] Ayoub Otmani, Jean-Pierre Tillich, and Léonard Dallot. Cryptanalysis of two McEliece cryptosystems based on quasi-cyclic codes. *Mathematics in Computer Science*, 3(2):129–140, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=129>.

Heuberger:2010:RAE

- [86] Clemens Heuberger. Redundant τ -adic expansions II: Non-optimality and chaotic behaviour. *Mathematics in Computer Science*, 3(2):141–157, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=141>.

Eibach:2010:OGB

- [87] Tobias Eibach, Gunnar Völkel, and Enrico Pilz. Optimising Gröbner bases on Bivium. *Mathematics in Computer Science*, 3(2):159–172, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=159>.

Duquesne:2010:TGL

- [88] Sylvain Duquesne. Traces of the group law on the Kummer surface of a curve of genus 2 in characteristic 2. *Mathematics in Computer Science*, 3(2):173–183, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=173>.

Bulygin:2010:OSS

- [89] Stanislav Bulygin and Michael Brickenstein. Obtaining and solving systems of equations in key variables only for the small variants of AES. *Mathematics in Computer Science*, 3(2):185–200, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=185>.

Lee:2010:CGC

- [90] Moon Sung Lee and Sang Geun Hahn. Cryptanalysis of the GGH cryptosystem. *Mathematics in Computer Science*, 3(2):201–208, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=201>.

Minzlaff:2010:CZF

- [91] Moritz Minzlaff. Computing zeta functions of superelliptic curves in larger characteristic. *Mathematics in Computer Science*, 3(2):209–224, April 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=2&spage=209>.

Autexier:2010:FSI

- [92] Serge Autexier, Petr Sojka, and Masakazu Suzuki. Foreword to the

special issue on authoring, digitalization and management of mathematical knowledge. *Mathematics in Computer Science*, 3(3):225–226, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=225>.

Bouche:2010:DML

- [93] Thierry Bouche. Digital mathematics libraries: The good, the bad, the ugly. *Mathematics in Computer Science*, 3(3):227–241, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=227>.

Macias-Virgos:2010:DPS

- [94] E. Macías-Virgós and R. de la Viesca. Digitization projects in Spain. *Mathematics in Computer Science*, 3(3):243–250, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=243>.

Mijajlovic:2010:DME

- [95] Zarko Mijajlovič, Zoran Ognjanović, and Aleksandar Pejović. Digitization of mathematical editions in Serbia. *Mathematics in Computer Science*, 3(3):251–263, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=251>.

Zamlynska:2010:EMC

- [96] Katarzyna Zamlyńska, Alek Tarkowski, and Tomasz Rosiek. Evolution of the mathematical collection of the Polish Virtual Library of Science. *Mathematics in Computer Science*, 3(3):265–278, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=265>.

Fujiyoshi:2010:GVM

- [97] Akio Fujiyoshi, Masakazu Suzuki, and Seiichi Uchida. Grammatical verification for mathematical formula recognition based on context-free tree grammar. *Mathematics in Computer Science*, 3(3):279–298, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=279>.

Stamerjohanns:2010:TLC

- [98] Heinrich Stamerjohanns, Michael Kohlhase, Deyan Ginev, Catalin David, and Bruce Miller. Transforming large collections of scientific publications to XML. *Mathematics in Computer Science*, 3(3):299–307, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=299>.

Aspinall:2010:THP

- [99] David Aspinall, Ewen Denney, and Christoph Lüth. Tactics for hierarchical proof. *Mathematics in Computer*

Science, 3(3):309–330, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=309>.

Cohen:2010:MCI

- [100] A. M. Cohen, H. Cuypers, and R. Verrijzer. Mathematical context in interactive documents. *Mathematics in Computer Science*, 3(3):331–347, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=331>.

Heeren:2010:SRS

- [101] Bastiaan Heeren, Johan Jeuring, and Alex Gerdes. Specifying rewrite strategies for interactive exercises. *Mathematics in Computer Science*, 3(3):349–370, May 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=3&spage=349>.

Christodoulakis:2010:F

- [102] Manolis Christodoulakis and Costas S. Iliopoulos. Foreword. *Mathematics in Computer Science*, 3(4):371, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=371>.

Puglisi:2010:FPA

- [103] Simon J. Puglisi, W. F. Smyth, and Munina Yusufu. Fast, practical algorithms for computing all the repeats in

a string. *Mathematics in Computer Science*, 3(4):373–389, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=373>.

Cinque:2010:SCP

- [104] Luigi Cinque, Sergio De Agostino, and Luca Lombardi. Scalability and communication in parallel low-complexity lossless compression. *Mathematics in Computer Science*, 3(4):391–406, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=391>.

Kulekci:2010:BNB

- [105] M. Oguzhan Külekci. BLIM: a new bit-parallel pattern matching algorithm overcoming computer word size limitation. *Mathematics in Computer Science*, 3(4):407–420, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=407>.

Ghosh:2010:RAS

- [106] Subhas Kumar Ghosh and Janardan Misra. A randomized algorithm for 3-SAT. *Mathematics in Computer Science*, 3(4):421–431, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=421>.

Hasan:2010:COA

- [107] Masud Hasan, Tanaeem M. Moosa, and M. Sohel Rahman. Cache oblivious algorithms for the RMQ and the RMSQ problems. *Mathematics in Computer Science*, 3(4):433–442, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=433>.

Pu:2010:ASE

- [108] Ida M. Pu and Yuji Shen. Analytical studies of energy-time efficiency of blocking expanding ring search. *Mathematics in Computer Science*, 3(4):443–456, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=443>.

Dimitrova:2010:EVC

- [109] Elena S. Dimitrova. Estimating the volumes of the cones in a Gröbner fan. *Mathematics in Computer Science*, 3(4):457–463, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=457>.

Albrecht:2010:ALS

- [110] A. A. Albrecht, P. C. R. Lane, and K. Steinhöfel. Analysis of local search landscapes for k -SAT instances. *Mathematics in Computer Science*, 3(4):465–488, June 2010. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=465>.

Cooper:2010:SFP

- [111] Colin Cooper and Ryuhei Uehara. Scale free properties of random k -trees. *Mathematics in Computer Science*, 3(4):489–496, June 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=3&issue=4&spage=489>.

Gonzalez-Vega:2010:F

- [112] Laureano Gonzalez-Vega and Sylvain Lazard. Foreword. *Mathematics in Computer Science*, 4(1):1–2, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=1>.

DAndrea:2010:NPR

- [113] Carlos D’Andrea and Martín Sombra. The Newton polygon of a rational plane curve. *Mathematics in Computer Science*, 4(1):3–24, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=3>.

Emiris:2010:CNP

- [114] Ioannis Z. Emiris, Christos Konaxis, and Leonidas Palios. Computing the Newton polygon of the implicit equation. *Mathematics in Computer Sci-*

ence, 4(1):25–44, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=25>.

Berberich:2010:APSa

- [115] Eric Berberich, Efi Fogel, Dan Halperin, Kurt Mehlhorn, and Ron Wein. Arrangements on parametric surfaces I: General framework and infrastructure. *Mathematics in Computer Science*, 4(1):45–66, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=45>.

Berberich:2010:APSB

- [116] Eric Berberich, Efi Fogel, Dan Halperin, Michael Kerber, and Ophir Setter. Arrangements on parametric surfaces II: Concretizations and applications. *Mathematics in Computer Science*, 4(1):67–91, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=67>.

Lazard:2010:CTS

- [117] Daniel Lazard. CAD and topology of semi-algebraic sets. *Mathematics in Computer Science*, 4(1):93–112, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=93>.

Cheng:2010:TRA

- [118] Jinsan Cheng, Sylvain Lazard, Luis Peñaranda, Marc Pouget, Fabrice Rouillier, et al. On the topology of real algebraic plane curves. *Mathematics in Computer Science*, 4(1):113–137, November 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=1&spage=113>.

Regensburger:2010:F

- [119] Georg Regensburger, Markus Rosenkranz, and William Y. Sit. Foreword. *Mathematics in Computer Science*, 4(2–3):139–141, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=139>.

Levin:2010:DPI

- [120] Alexander Levin. Dimension polynomials of intermediate fields and krull-type dimension of finitely generated differential field extensions. *Mathematics in Computer Science*, 4(2–3):143–150, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=143>.

Morikawa:2010:DBE

- [121] Shuji Morikawa, Katsunori Saito, Taihei Takeuchi, and Hiroshi Umemura. Discrete Burgers' equation, binomial coefficients and mandala. *Mathe-*

matics in Computer Science, 4(2–3):151–167, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=151>.

Kasman:2010:FRP

- [122] Alex Kasman and Emma Previato. Factorization and resultants of partial differential operators. *Mathematics in Computer Science*, 4(2–3):169–184, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=169>.

Boulier:2010:NFA

- [123] François Boulier and François Lemaire. A normal form algorithm for regular differential chains. *Mathematics in Computer Science*, 4(2–3):185–201, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=185>.

Cheviakov:2010:SCL

- [124] Alexei F. Cheviakov. Symbolic computation of local symmetries of nonlinear and linear partial and ordinary differential equations. *Mathematics in Computer Science*, 4(2–3):203–222, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=203>.

Shemyakova:2010:RTF

- [125] Ekaterina Shemyakova. Refinement of two-factor factorizations of a linear partial differential operator of arbitrary order and dimension. *Mathematics in Computer Science*, 4(2-3):223–230, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=223>.

Plesken:2010:LDE

- [126] Wilhelm Plesken and Daniel Robertz. Linear differential elimination for analytic functions. *Mathematics in Computer Science*, 4(2-3):231–242, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=231>.

Dimovski:2010:OCA

- [127] Ivan Dimovski and Margarita Spiridonova. Operational calculus approach to nonlocal Cauchy problems. *Mathematics in Computer Science*, 4(2-3):243–258, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=243>.

Koutschan:2010:FAC

- [128] Christoph Koutschan. A fast approach to creative telescoping. *Mathematics in Computer Science*, 4(2-3):259–266, September 2010. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=259>.

Barkatou:2010:MMM

- [129] Moulay A. Barkatou, Gary Broughton, and Eckhard Pflügel. A monomial-by-monomial method for computing regular solutions of systems of pseudo-linear equations. *Mathematics in Computer Science*, 4(2-3):267–288, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=267>.

Boudellioua:2010:SRL

- [130] M. S. Boudellioua and A. Quadrat. Serre’s reduction of linear functional systems. *Mathematics in Computer Science*, 4(2-3):289–312, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=289>.

Guo:2010:EGFa

- [131] Li Guo and William Y. Sit. Enumeration and generating functions of Rota–Baxter words. *Mathematics in Computer Science*, 4(2-3):313–337, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=313>.

Guo:2010:EGFb

- [132] Li Guo and William Y. Sit. Enumeration and generating functions of dif-

ferential Rota–Baxter words. *Mathematics in Computer Science*, 4(2–3):339–358, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=339>.

Andres:2010:CMT

- [133] Daniel Andres, Michael Brickenstein, Viktor Levandovskyy, Jorge Martín-Morales, and Hans Schönemann. Constructive D -module theory with Singular. *Mathematics in Computer Science*, 4(2–3):359–383, September 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=2&spage=359>.

Vegter:2010:F

- [134] Gert Vegter and Chee K. Yap. Foreword. *Mathematics in Computer Science*, 4(4):385–387, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=385>.

Gu:2010:FCC

- [135] David Xianfeng Gu, Feng Luo, and Shing-Tung Yau. Fundamentals of computational conformal geometry. *Mathematics in Computer Science*, 4(4):389–429, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=389>.

Boissonnat:2010:TSS

- [136] Jean-Daniel Boissonnat and Arijit Ghosh. Triangulating smooth submanifolds with light scaffolding. *Mathematics in Computer Science*, 4(4):431–461, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=431>.

Yang:2010:EBA

- [137] Huaiping Yang, Bert Jüttler, and Laureano Gonzalez-Vega. An evolution-based approach for approximate parameterization of implicitly defined curves by polynomial parametric spline curves. *Mathematics in Computer Science*, 4(4):463–479, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=463>.

Sagraloff:2010:GAI

- [138] Michael Sagraloff. A general approach to isolating roots of a bitstream polynomial. *Mathematics in Computer Science*, 4(4):481–506, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=481>.

Batra:2010:GCI

- [139] Prashant Batra. Globally convergent, iterative path-following for algebraic equations. *Mathematics in Computer Science*, 4(4):507–537, December 2010. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=507>.

Morig:2010:DIG

- [140] Marc Morig, Ivo Rössling, and Stefan Schirra. On design and implementation of a generic number type for real algebraic number computations based on expression dags. *Mathematics in Computer Science*, 4(4):539–556, December 2010. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=4&issue=4&spage=539>.

Miller:2011:F

- [141] Mirka Miller, Bharati Rajan, and Joe Ryan. Foreword. *Mathematics in Computer Science*, 5(1):1–2, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=1>.

Acharya:2011:SHP

- [142] B. D. Acharya. Supra-hereditary properties of hypergraphs. *Mathematics in Computer Science*, 5(1):3–6, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=3>.

Bommanahal:2011:PGC

- [143] Basavanagoud Bommanahal and Keerthi G. Mirajkar. On Plick graphs with coarse-

ness number one. *Mathematics in Computer Science*, 5(1):7–10, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=7>.

Brankovic:2011:GLS

- [144] Ljiljana Brankovic and Ian M. Wanless. Graceful labelling: State of the art, applications and future directions. *Mathematics in Computer Science*, 5(1):11–20, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=11>.

Cada:2011:NDC

- [145] Roman Cada, Evelyne Flandrin, and Haiyan Kang. A note on degree conditions for traceability in locally claw-free graphs. *Mathematics in Computer Science*, 5(1):21–25, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=21>.

Chaudhuri:2011:ISS

- [146] Pranay Chaudhuri and Hussein Thompson. Improved self-stabilizing algorithms for $L(2,1)$ -labeling tree networks. *Mathematics in Computer Science*, 5(1):27–39, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=27>.

Ichishima:2011:POR

- [147] Rikio Ichishima and Akito Oshima. On partitional and other related graphs. *Mathematics in Computer Science*, 5(1):41–50, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=41>.

Jesintha:2011:AAF

- [148] J. Jeba Jesintha and G. Sethuraman. All arbitrarily fixed generalized banana trees are graceful. *Mathematics in Computer Science*, 5(1):51–62, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=51>.

Lopez:2011:SEM

- [149] S. C. López, F. A. Muntaner-Batle, and M. Rius-Font. Super edge-magic models. *Mathematics in Computer Science*, 5(1):63–68, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=63>.

O'Neal:2011:ICO

- [150] Allen O'Neal and Peter J. Slater. An introduction to closed/open neighborhood sums: Minimax, maximin, and spread. *Mathematics in Computer Science*, 5(1):69–80, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=69>.

<http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=69>.

Phanalasy:2011:CAL

- [151] Oudone Phanalasy, Mirka Miller, Costas S. Iliopoulos, Solon P. Pissis, and Elaheh Vaezpour. Construction of antimagic labeling for the cartesian product of regular graphs. *Mathematics in Computer Science*, 5(1):81–87, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=81>.

Rajan:2011:CRH

- [152] B. Rajan, K. T. Sonia, and M. Chris Monica. Conditional resolvability of honeycomb and hexagonal networks. *Mathematics in Computer Science*, 5(1):89–99, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=89>.

Rajasingh:2011:LWF

- [153] Indra Rajasingh and Micheal Arockiaraj. Linear wirelength of folded hypercubes. *Mathematics in Computer Science*, 5(1):101–111, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=101>.

Sugeng:2011:CVM

- [154] K. A. Sugeng and J. Ryan. Clique vertex magic cover of a graph. *Mathematics in Computer Science*, 5(1):113–118,

March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=113>.

Nishat:2011:VDP

- [155] Rahnuma Islam Nishat, Debajyoti Mondal, and Md. Saidur Rahman. Visibility drawings of plane 3-trees with minimum area. *Mathematics in Computer Science*, 5(1):119–132, March 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=1&spage=119>.

Manin:2011:ECC

- [156] Yuri I. Manin and Matilde Marcolli. Error-correcting codes and phase transitions. *Mathematics in Computer Science*, 5(2):133–170, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=133>.

Klein:2011:HCN

- [157] Shmuel T. Klein and Dana Shapira. Huffman coding with non-sorted frequencies. *Mathematics in Computer Science*, 5(2):171–178, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=171>.

Faugere:2011:PER

- [158] Jean-Charles Faugère and Ye Liang. Pivoting in extended rings for com-

puting approximate Gröbner bases. *Mathematics in Computer Science*, 5(2):179–194, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=179>.

Zhu:2011:SSF

- [159] Mingfu Zhu, Guangran Jiang, and Shuhong Gao. Solving the 100 Swiss francs problem. *Mathematics in Computer Science*, 5(2):195–207, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=195>.

Gandy:2011:OPR

- [160] Silvia Gandy, Masaaki Kanno, Hirokazu Anai, and Kazuhiro Yokoyama. Optimizing a particular real root of a polynomial by a special cylindrical algebraic decomposition. *Mathematics in Computer Science*, 5(2):209–221, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=209>.

Juttler:2011:QCS

- [161] Bert Jüttler and Brian Moore. A quadratic clipping step with superquadratic convergence for bivariate polynomial systems. *Mathematics in Computer Science*, 5(2):223–235, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=>

1661-8270&volume=5&issue=2&spage=223.

Khattri:2011:OEO

- [162] Sanjay Kumar Khattri. Optimal eighth order iterative methods. *Mathematics in Computer Science*, 5(2):237–243, June 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=2&spage=237>.

Anai:2011:F

- [163] Hirokazu Anai. Foreword. *Mathematics in Computer Science*, 5(3):245–246, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=245>.

Li:2011:SAD

- [164] Xiaoliang Li, Chenqi Mou, Wei Niu, and Dongming Wang. Stability analysis for discrete biological models using algebraic methods. *Mathematics in Computer Science*, 5(3):247–262, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=247>.

Mabrouki:2011:EBR

- [165] Mbarka Mabrouki, Marc Aiguier, Jean-Paul Comet, Pascale Le Gall, and Adrien Richard. Embedding of biological regulatory networks and property preservation. *Mathematics in Computer Science*, 5(3):263–288, September 2011.

CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=263>.

Boulier:2011:MRC

- [166] François Boulier, Marc Lefranc, François Lemaire, and Pierre-Emmanuel Morant. Model reduction of chemical reaction systems using elimination. *Mathematics in Computer Science*, 5(3):289–301, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=289>.

Ichihara:2011:SQA

- [167] Hiroyuki Ichihara and Hirokazu Anai. An SOS-QE approach to nonlinear gain analysis for polynomial dynamical systems. *Mathematics in Computer Science*, 5(3):303–314, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=303>.

Iwane:2011:SNA

- [168] Hidenao Iwane, Hitoshi Yanami, and Hirokazu Anai. A symbolic-numeric approach to multi-objective optimization in manufacturing design. *Mathematics in Computer Science*, 5(3):315–334, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=315>.

DosReis:2011:PCE

- [169] Gabriel Dos Reis and Bjarne Stroustrup. A principled, complete, and efficient representation of C++. *Mathematics in Computer Science*, 5(3):335–356, September 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=3&spage=335>.

Fainekos:2011:F

- [170] Georgios Fainekos, Eric Goubault, Sylvie Putot, and Stefan Ratschan. Foreword. *Mathematics in Computer Science*, 5(4):357–358, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=357>.

Graillat:2011:SAM

- [171] Stef Graillat, Fabienne Jézéquel, Shiyue Wang, and Yuxiang Zhu. Stochastic arithmetic in multiprecision. *Mathematics in Computer Science*, 5(4):359–375, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=359>.

Boldo:2011:FVN

- [172] Sylvie Boldo and Claude Marché. Formal verification of numerical programs: From C annotated programs to mechanical proofs. *Mathematics in Computer Science*, 5(4):377–393, December 2011. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=377>.

Siegel:2011:TTA

- [173] Stephen F. Siegel and Timothy K. Zirkel. TASS: The Toolkit for Accurate Scientific Software. *Mathematics in Computer Science*, 5(4):395–426, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://vsl.cis.udel.edu/tass>; <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=395>.

Siegel:2011:FFE

- [174] Stephen F. Siegel and Timothy K. Zirkel. FEVS: a Functional Equivalence Verification Suite for high-performance scientific computing. *Mathematics in Computer Science*, 5(4):427–435, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=427>.

Collins:2011:VRF

- [175] Pieter Collins, Milad Niqui, and Nathalie Revol. A validated real function calculus. *Mathematics in Computer Science*, 5(4):437–467, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=437>.

Damm:2011:PPV

- [176] Werner Damm, Carsten Ihlemann, and Viorica Sofronie-Stokkermans. PTIME parametric verification of safety properties for reasonable linear hybrid automata. *Mathematics in Computer Science*, 5(4):469–497, December 2011. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=5&issue=4&spage=469>.

Hellmuth:2012:SHP

- [177] Marc Hellmuth, Lydia Ostermeier, and Peter F. Stadler. A survey on hypergraph products. *Mathematics in Computer Science*, 6(1):1–32, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=1>.

Rana:2012:CCP

- [178] Akul Rana, Anita Pal, and Madhumangal Pal. The conditional covering problem on unweighted interval graphs with nonuniform coverage radius. *Mathematics in Computer Science*, 6(1):33–41, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=33>.

Lundqvist:2012:MMI

- [179] Samuel Lundqvist. Multiplication matrices and ideals of projective dimension zero. *Mathematics in Computer Science*, 6(1):43–59, March 2012. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=43>.

Horn:2012:MFH

- [180] Peter Horn, Wolfram Koepf, and Torsten Sprenger. m -fold hypergeometric solutions of linear recurrence equations revisited. *Mathematics in Computer Science*, 6(1):61–77, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=61>.

Nahay:2012:TOI

- [181] John Michael Nahay. The n th order implicit differentiation formula for two variables with an application to computing all roots of a transcendental function. *Mathematics in Computer Science*, 6(1):79–105, March 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=1&spage=79>.

Kotsireas:2012:F

- [182] Ilias S. Kotsireas, Irene Márquez-Corbella, and Edgar Martínez-Moro. Foreword. *Mathematics in Computer Science*, 6(2):107–108, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=107>.

Jurrius:2012:RBM

- [183] Relinde Jurrius. Relations between Möbius and coboundary polynomials. *Mathematics in Computer Science*, 6(2):109–120, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=109>.

Jurrius:2012:TFI

- [184] Relinde Jurrius and Ruud Pellikaan. Truncation formulas for invariant polynomials of matroids and geometric lattices. *Mathematics in Computer Science*, 6(2):121–133, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=121>.

Gordon:2012:BGD

- [185] Gary Gordon. On Brylawski’s generalized duality. *Mathematics in Computer Science*, 6(2):135–146, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=135>.

Marquez-Corbella:2012:DMC

- [186] Irene Márquez-Corbella and Edgar Martínez-Moro. Decomposition of modular codes for computing test sets and Graver basis. *Mathematics in Computer Science*, 6(2):147–165, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl>.

[asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=147](http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=147).

Romanczuk:2012:FGL

- [187] Urszula Romańczuk and Vasyl Ustimenko. On families of graphs of large cycle indicator, matrices of large order and key exchange protocols with nonlinear polynomial maps of small degree. *Mathematics in Computer Science*, 6(2):167–180, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=167>.

Klisowski:2012:CCP

- [188] Michal Klisowski and Vasyl Ustimenko. On the comparison of cryptographical properties of two different families of graphs with large cycle indicator. *Mathematics in Computer Science*, 6(2):181–198, June 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=2&spage=181>.

Marculli:2012:CFN

- [189] Matilde Marcolli and Christopher Perez. Codes as fractals and noncommutative spaces. *Mathematics in Computer Science*, 6(3):199–215, September 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=199>.

Orange:2012:EAS

- [190] Sébastien Orange, Guénaél Renault, and Kazuhiro Yokoyama. Efficient arithmetic in successive algebraic extension fields using symmetries. *Mathematics in Computer Science*, 6(3):217–233, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=217>.

Kohlhase:2012:SOM

- [191] Michael Kohlhase and Florian Rabe. Semantics of OpenMath and MathML 3. *Mathematics in Computer Science*, 6(3):235–260, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=235>.

Aurenhammer:2012:CCH

- [192] Franz Aurenhammer and Bert Jüttler. On computing the convex hull of (piecewise) curved objects. *Mathematics in Computer Science*, 6(3):261–266, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=261>.

Li:2012:FSF

- [193] Hongbo Li, Rida T. Farouki, and Dingkang Wang. Foreword to the special focus on mathematics and algorithms for CAM and CNC. *Mathematics in Computer Science*, 6(3):267–268, Septem-

ber 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=267>.

Gasparetto:2012:TPR

- [194] Alessandro Gasparetto, Paolo Boscarol, Albano Lanzutti, and Renato Vidoni. Trajectory planning in robotics. *Mathematics in Computer Science*, 6(3):269–279, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=269>.

Li:2012:PSS

- [195] Hongbo Li, Shoubin Yao, Ge Li, Yuanjie Liu, and Lixian Zhang. Power series solution for isoscallop tool path generation on free-form surface with ball-end cutter. *Mathematics in Computer Science*, 6(3):281–296, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=281>.

Radzevich:2012:DKB

- [196] Stephen P. Radzevich. The DG/K-based approach for synthesizing of CAM system for sculptured surface machining on multi-axis NC machine. *Mathematics in Computer Science*, 6(3):297–313, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=297>.

Wang:2012:CBR

- [197] Yongqing Wang, Haibo Liu, and Sennan Yu. Curvature-based real-time NURBS surface interpolator with look-ahead ACC/DEC control. *Mathematics in Computer Science*, 6(3): 315–326, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=315>.

Li:2012:DIG

- [198] Hongbo Li, Xiaoshan Gao, Lixian Zhang, and Ruiyong Sun. Discrete interpolation of G01 codes in 2D machining under bounded accelerations. *Mathematics in Computer Science*, 6(3):327–344, September 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1661-8270&volume=6&issue=3&spage=327>.

Ratschan:2012:F

- [199] Stefan Ratschan and Thomas Sturm. Foreword. *Mathematics in Computer Science*, 6(4):345, December 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0129-2>; <http://link.springer.com/content/pdf/10.1007/s11786-012-0129-2.pdf>.

Jaulin:2012:CIA

- [200] Luc Jaulin. Combining interval analysis with flatness theory for state estimation of sailboat robots. *Mathematics in Computer Science*, 6(4):347–359, December

2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0130-9>.

Huang:2012:RGS

- [201] Yanli Huang, L. X. Châu Ngô, and Franz Winkler. Rational general solutions of trivariate rational differential systems. *Mathematics in Computer Science*, 6(4):361–374, December 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0131-8>.

Anashin:2012:NAT

- [202] Vladimir Anashin. The non-Archimedean theory of discrete systems. *Mathematics in Computer Science*, 6(4):375–393, December 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0132-7>.

Liu:2012:ADR

- [203] Jiang Liu, Naijun Zhan, and Hengjun Zhao. Automatically discovering relaxed Lyapunov functions for polynomial dynamical systems. *Mathematics in Computer Science*, 6(4):395–408, December 2012. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0133-6>.

Fietzke:2012:SDP

- [204] Arnaud Fietzke and Christoph Weidenbach. Superposition as a decision procedure for timed automata. *Mathematics in Computer Science*, 6(4):409–425, December 2012. CODEN ????. ISSN 1661-8270

(print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0134-5>.

Kruglov:2012:SDF

- [205] Evgeny Kruglov and Christoph Weidenbach. Superposition decides the first-order logic fragment over ground theories. *Mathematics in Computer Science*, 6(4):427–456, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0135-4>.

Maza:2012:SPP

- [206] Marc Moreno Maza, Bican Xia, and Rong Xiao. On solving parametric polynomial systems. *Mathematics in Computer Science*, 6(4):457–473, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0136-3>.

Barbosa:2012:CGQ

- [207] L. S. Barbosa and Sun Meng. A calculus for generic, QoS-aware component composition. *Mathematics in Computer Science*, 6(4):475–497, December 2012. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0137-2>.

Naipally:2013:F

- [208] Som Naipally, Jim Peters, and Marcin Wolski. Foreword. *Mathematics in Computer Science*, 7(1):1–2, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0147-8>; <http://>

link.springer.com/content/pdf/10.1007/s11786-013-0147-8.pdf.

Peters:2013:NSI

- [209] James F. Peters. Near sets: An introduction. *Mathematics in Computer Science*, 7(1):3–9, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0149-6>; <http://link.springer.com/content/pdf/10.1007/s11786-013-0149-6.pdf>.

Ramanna:2013:FGA

- [210] Sheela Ramanna and Doungrat Chitcharoen. Flow graphs: Analysis with near sets. *Mathematics in Computer Science*, 7(1):11–29, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0144-y>.

DiConcilio:2013:PFG

- [211] A. Di Concilio. Point-free geometries: Proximities and quasi-metrics. *Mathematics in Computer Science*, 7(1):31–42, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0140-2>.

Fashandi:2013:NCU

- [212] Homa Fashandi. Nearness of covering uniformities: Theory and application in image analysis. *Mathematics in Computer Science*, 7(1):43–50, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0142-0>.

Henry:2013:MFN

- [213] Christopher J. Henry. Metric free nearness measure using description-based neighbourhoods. *Mathematics in Computer Science*, 7(1):51–69, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0141-1>.

Henry:2013:SBP

- [214] Christopher J. Henry and Sheela Ramanna. Signature-based perceptual nearness: Application of near sets to image retrieval. *Mathematics in Computer Science*, 7(1):71–85, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0145-x>.

Peters:2013:LNS

- [215] James F. Peters. Local near sets: Pattern discovery in proximity spaces. *Mathematics in Computer Science*, 7(1):87–106, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0143-z>.

Tiwari:2013:UCV

- [216] Surabhi Tiwari. Ultrafilter completeness in ε -approach nearness spaces. *Mathematics in Computer Science*, 7(1):107–111, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0148-7>.

Wang:2013:GKM

- [217] Lidong Wang, Xiaodong Liu, and Yashuang Mu. The global k -means clustering analysis based on multi-granulations nearness neighborhood. *Mathematics in Computer Science*, 7(1):113–124, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0150-0>.

Wolski:2013:TFN

- [218] Marcin Wolski. Toward foundations of near sets: (pre-)sheaf theoretic approach. *Mathematics in Computer Science*, 7(1):125–136, March 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0146-9>; <http://link.springer.com/content/pdf/10.1007/s11786-013-0146-9.pdf>.

Conley:2013:IAB

- [219] Ehud S. Conley and Shmuel T. Klein. Improved alignment-based algorithm for multilingual text compression. *Mathematics in Computer Science*, 7(2):137–153, June 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0138-1>.

Cinque:2013:BIC

- [220] Luigi Cinque, Sergio De Agostino, and Luca Lombardi. Binary image compression via monochromatic pattern substitution: Sequential and Parallel implementations. *Mathematics in Computer Science*, 7(2):155–166, June 2013. CODEN ???? ISSN 1661-8270

(print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0153-x>.

Perez-Diaz:2013:BFB

- [221] Sonia Pérez-Díaz and J. Rafael Sendra. Behavior of the fiber and the base points of parametrizations under projections. *Mathematics in Computer Science*, 7(2):167–184, June 2013. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0139-8>.

Zhao:2013:DVC

- [222] Jun Zhao and Elizabeth Mansfield. Discrete variational calculus for B-spline curves. *Mathematics in Computer Science*, 7(2):185–199, June 2013. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0155-8>.

Rosenkranz:2013:NAO

- [223] M. Rosenkranz and A. Korporal. A noncommutative algebraic operational calculus for boundary problems. *Mathematics in Computer Science*, 7(2):201–227, June 2013. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0154-9>.

Li:2013:TPM

- [224] Hongbo Li and Lixian Zhang. Two proofs on Max–Min–Max principle of jerk control in time-optimal rectilinear motion. *Mathematics in Computer Science*, 7(2):229–236, June 2013. CODEN ????. ISSN 1661-8270

(print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-012-0128-3>.

Siddiqui:2013:FAL

- [225] Muhammad Kamran Siddiqui, Muhammad Numan, and Muhammad Awais Umar. Face antimagic labeling of Jahangir graph. *Mathematics in Computer Science*, 7(2):237–243, June 2013. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0151-z>.

Baca:2013:SFA

- [226] Martin Baca, Muhammad Numan, and Muhammad Kamran Siddiqui. Super face antimagic labelings of union of antiprisms. *Mathematics in Computer Science*, 7(2):245–253, June 2013. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0152-y>.

Hellmuth:2013:PSP

- [227] Marc Hellmuth, Wilfried Imrich, and Tomas Kupka. Partial star products: A local covering approach for the recognition of approximate Cartesian product graphs. *Mathematics in Computer Science*, 7(3):255–273, September 2013. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0156-7>.

Fagerberg:2013:CRC

- [228] Rolf Fagerberg, Christoph Flamm, Daniel Merkle, Philipp Peters, and Peter F. Stadler. On the complexity of reconstructing chemical reac-

tion networks. *Mathematics in Computer Science*, 7(3):275–292, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0160-y>.

Elden:2013:CSC

- [229] Lars Eldén, Magnus Merkel, Lars Ahrenberg, and Martin Fagerlund. Computing semantic clusters by semantic Mirroring and spectral graph partitioning. *Mathematics in Computer Science*, 7(3):293–313, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0159-4>.

Ali:2013:MLT

- [230] Kashif Ali, Muhammad Hussain, Ali Ahmad, and Mirka Miller. Magic labelings of type (a, b, c) of families of wheels. *Mathematics in Computer Science*, 7(3):315–319, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0162-9>.

Semaev:2013:IAG

- [231] Igor Semaev. Improved agreeing–gluing algorithm. *Mathematics in Computer Science*, 7(3):321–339, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0163-8>.

Saeid:2013:STF

- [232] Arsham Borumand Saeid, Akbar Rezaei, and Rajab Ali Borzooei. Some types of filters in BE-algebras. *Mathemat-*

ics in Computer Science, 7(3):341–352, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0157-6>.

Akram:2013:IFS

- [233] Muhammad Akram, Bijan Davvaz, and Feng Feng. Intuitionistic fuzzy soft K -algebras. *Mathematics in Computer Science*, 7(3):353–365, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0158-5>.

Akram:2013:IFL

- [234] Muhammad Akram, Saadia Shahzad, Arif Butt, and Abdul Khaliq. Intuitionistic fuzzy logic control for heater fans. *Mathematics in Computer Science*, 7(3):367–378, September 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0161-x>.

Chen:2013:FSF

- [235] Xiaoyu Chen, Dongming Wang, and Xi-angliang Zhang. Foreword to the special focus on mathematics, data and knowledge. *Mathematics in Computer Science*, 7(4):379–386, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-013-0169-2.pdf>.

Abbass:2013:EAI

- [236] Mostafa M. Abbass and Hazem M. Bahig. An efficient algorithm to identify DNA motifs. *Mathematics in Computer Science*, 7(4):387–399, December

2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0165-6>.

Cruz:2013:SNC

- [237] Cristian Cruz, William Lima Leão, and David Rohde. The sensitivity of the number of clusters in a Gaussian mixture model to prior distributions. *Mathematics in Computer Science*, 7(4):401–420, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0168-3>.

Aladova:2013:IMK

- [238] Elena Aladova, Eugene Plotkin, and Tatjana Plotkin. Isotypeness of models and knowledge bases equivalence. *Mathematics in Computer Science*, 7(4):421–438, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0166-5>.

Chen:2013:FSG

- [239] Xiaoyu Chen and Dongming Wang. Formalization and specification of geometric knowledge objects. *Mathematics in Computer Science*, 7(4):439–454, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0167-4>.

Zima:2013:AIS

- [240] Eugene V. Zima. Accelerating indefinite summation: Simple classes of summands. *Mathematics in Computer Science*, 7(4):455–472, December

2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0170-9>.

Roanes-Lozano:2013:GRG

- [241] Eugenio Roanes-Lozano. The geometry of railway geometric overthrow revisited using computer algebra methods. *Mathematics in Computer Science*, 7(4):473–485, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-013-0164-7>.

Baca:2013:TEI

- [242] Martin Baca, Marcela Lascáková, and Muhammad Kamran Siddiqui. Total edge irregularity strength of toroidal fullerene. *Mathematics in Computer Science*, 7(4):487–492, December 2013. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0172-2>.

Kerber:2014:F

- [243] Manfred Kerber, Christoph Lange, and Colin Rowat. Foreword. *Mathematics in Computer Science*, 8(1):1–4, March 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0178-9.pdf>.

Chatterjee:2014:ARS

- [244] Siddharth Chatterjee and Arunava Sen. Automated reasoning in social choice theory: Some remarks. *Mathematics in Computer Science*, 8(1):5–10, March 2014. CODEN ???? ISSN 1661-8270

(print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0177-x>.

James:2014:EFM

- [245] Phillip James and Markus Roggenbach. Encapsulating formal methods within domain specific languages: A solution for verifying railway scheme plans. *Mathematics in Computer Science*, 8(1):11–38, March 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0174-0>.

Khan-Afshar:2014:FAO

- [246] Sanaz Khan-Afshar, Umair Siddique, Mohamed Yousri Mahmoud, Vincent Aravantinos, Ons Seddiki, Osman Hasan, and Sofïene Tahar. Formal analysis of optical systems. *Mathematics in Computer Science*, 8(1):39–70, March 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0175-z>.

Mitsch:2014:CVD

- [247] Stefan Mitsch, Grant Olney Passmore, and André Platzer. Collaborative verification-driven engineering of hybrid systems. *Mathematics in Computer Science*, 8(1):71–97, March 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0176-y>.

Heras:2014:RPP

- [248] Jónathan Heras and Ekaterina Komentanskaya. Recycling proof patterns in Coq: Case studies. *Mathematics in*

Computer Science, 8(1):99–116, March 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0173-1>.

DiRocco:2014:F

- [249] Sandra Di Rocco and Josef Schicho. Foreword. *Mathematics in Computer Science*, 8(2):117–118, June 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0184-y.pdf>.

Ren:2014:TCM

- [250] Qingchun Ren, Steven V. Sam, and Bernd Sturmfels. Tropicalization of classical moduli spaces. *Mathematics in Computer Science*, 8(2):119–145, June 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0185-x>.

Bremner:2014:HPF

- [251] Murray Bremner, Jiaxiong Hu, and Luke Oeding. The $3 \times 3 \times 3$ hyperdeterminant as a polynomial in the fundamental invariants for $SL_3(\mathbf{C}) \times SL_3(\mathbf{C}) \times SL_3(\mathbf{C})$. *Mathematics in Computer Science*, 8(2):147–156, June 2014. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0186-9>.

Mourrain:2014:BDT

- [252] Bernard Mourrain and Nelly Villamizar. Bounds on the dimension of trivariate spline spaces: A homological approach. *Mathematics in Computer Science*, 8(2):157–174, June

2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0187-8>.
- Buse:2014:DSH**
- [253] Laurent Busé and Jean-Pierre Jouanolou. On the discriminant scheme of homogeneous polynomials. *Mathematics in Computer Science*, 8(2):175–234, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0188-7>.
- Hauenstein:2014:NPW**
- [254] Jonathan D. Hauenstein and Frank Sottile. Newton polytopes and witness sets. *Mathematics in Computer Science*, 8(2):235–251, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0189-6>.
- Bates:2014:UMA**
- [255] Daniel J. Bates and Matthew Niemerg. Using monodromy to avoid high precision in homotopy continuation. *Mathematics in Computer Science*, 8(2):253–262, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0190-0>.
- Wilson:2014:CAS**
- [256] D. J. Wilson, R. J. Bradford, J. H. Davenport, and M. England. Cylindrical algebraic sub-decompositions. *Mathematics in Computer Science*, 8(2):263–288, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0191-z.pdf>.
- EIKahoui:2014:ACA**
- [257] M’hammed El Kahoui and Zakari Yaou Moussa. An algorithm to compute the adjoint ideal of an affine plane algebraic curve. *Mathematics in Computer Science*, 8(2):289–298, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0193-x>.
- Bastl:2014:PRR**
- [258] Bohumír Bastl, Bert Jüttler, Miroslav Lávicka, Tino Schulz, and Zbynek Sír. On the parameterization of rational ringed surfaces and rational canal surfaces. *Mathematics in Computer Science*, 8(2):299–319, June 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0192-y>.
- Ramdani:2014:F**
- [259] Nacim Ramdani and Luc Jaulin. Foreword. *Mathematics in Computer Science*, 8(3–4):321, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0211-z.pdf>.
- Rohn:2014:VLD**
- [260] Jiri Rohn. Verification of linear (in)dependence in finite precision arithmetic. *Mathematics in Computer Science*, 8(3–4):323–328, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL

<http://link.springer.com/article/10.1007/s11786-014-0196-7>.

Hladik:2014:ESC

- [261] Milan Hladík and Stefan Ratschan. Efficient solution of a class of quantified constraints with quantifier prefix exists-forall. *Mathematics in Computer Science*, 8(3–4):329–340, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0195-8>.

Just:2014:SSB

- [262] Elke Just. Subdivision strategies for boxes in branch-and-bound nonlinear solvers and verification. *Mathematics in Computer Science*, 8(3–4):341–355, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0207-8>.

Patil:2014:IBG

- [263] Bhagyesh V. Patil and P. S. V. Nataraj. An improved Bernstein global optimization algorithm for MINLP problems with application in process industry. *Mathematics in Computer Science*, 8(3–4):357–377, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0198-5>.

Aubry:2014:KCI

- [264] Clément Aubry, Rozenn Desmare, and Luc Jaulin. Kernel characterization of an interval function. *Mathematics in Computer Science*, 8(3–4):379–390, September 2014. CODEN ????

ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0206-9>.

Ravanbod:2014:DSM

- [265] Laleh Ravanbod, Nathalie Verdière, and Carine Jaubertie. Determination of set-membership identifiability sets. *Mathematics in Computer Science*, 8(3–4):391–406, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0201-1>.

Maïga:2014:CVZ

- [266] Moussa Maïga, Nacim Ramdani, Louise Travé-Massuyès, and Christophe Combastel. A CSP versus a zonotope-based method for solving guard set intersection in nonlinear hybrid reachability. *Mathematics in Computer Science*, 8(3–4):407–423, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0204-y>.

Rego:2014:DIO

- [267] Francisco Rego, Elwin de Weerd, Eddy van Oort, Erik-Jan van Kampen, Qiping Chu, and António M. Pascoal. Determination of inner and outer bounds of reachable sets through subpavings. *Mathematics in Computer Science*, 8(3–4):425–442, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0199-4>.

Kumkov:2014:LSV

- [268] Sergey S. Kumkov, Stéphane Le Méneç, and Valerii S. Patsko. Level sets of the value function in differential games with two pursuers and one evader. interval analysis interpretation. *Mathematics in Computer Science*, 8(3–4):443–454, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0203-z>.

Chhadé:2014:NPD

- [269] Hiba Haj Chhadé, Amadou Gning, Fahed Abdallah, Imad Mougharbel, and Simon Julier. Non parametric distributed inference in sensor networks using box particles messages. *Mathematics in Computer Science*, 8(3–4):455–478, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0200-2.pdf>.

Sandretto:2014:IMM

- [270] Julien Alexandre Dit Sandretto, Gilles Trombettoni, and David Daney. Interval methods for model qualification: Methodology and advanced application. *Mathematics in Computer Science*, 8(3–4):479–493, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0210-0>.

Seddik:2014:PBL

- [271] Mohamed Saad Ibn Seddik, Luc Jaulin, and Jonathan Grimsdale. Phase based localization for underwater vehicles

using interval analysis. *Mathematics in Computer Science*, 8(3–4):495–502, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0197-6>.

Bethencourt:2014:SNL

- [272] Aymeric Bethencourt and Luc Jaulin. Solving non-linear constraint satisfaction problems involving time-dependent functions. *Mathematics in Computer Science*, 8(3–4):503–523, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0209-6>.

Rauh:2014:IMR

- [273] Andreas Rauh, Luise Senkel, Ekaterina Auer, and Harald Aschemann. Interval methods for real-time capable robust control of solid oxide fuel cell systems. *Mathematics in Computer Science*, 8(3–4):525–542, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0205-x>.

Senkel:2014:SMT

- [274] Luise Senkel, Andreas Rauh, and Harald Aschemann. Sliding mode techniques for robust trajectory tracking as well as state and parameter estimation. *Mathematics in Computer Science*, 8(3–4):543–561, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0208-7>.

Drevelle:2014:VVI

- [275] Vincent Drevelle and Jeremy Nicola. VIBes: A visualizer for intervals and boxes. *Mathematics in Computer Science*, 8(3–4):563–572, September 2014. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0202-0>.

They:2015:FSF

- [276] Laurent Théry and Freek Wiedijk. Foreword to the special focus on formal proofs for mathematics and computer science. *Mathematics in Computer Science*, 9(1):1–3, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0214-9.pdf>.

Kaliszyk:2015:HHO

- [277] Cezary Kaliszyk and Josef Urban. HOL(y)Hammer: Online ATP service for HOL light. *Mathematics in Computer Science*, 9(1):5–22, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-014-0182-0.pdf>.

Noschinski:2015:GLI

- [278] Lars Noschinski. A graph library for Isabelle. *Mathematics in Computer Science*, 9(1):23–39, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0183-z>.

Boldo:2015:CUF

- [279] Sylvie Boldo, Catherine Lelay, and Guillaume Melquiond. Coquelicot:

A user-friendly library of real analysis for Coq. *Mathematics in Computer Science*, 9(1):41–62, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0181-1>.

Marcolli:2015:QCR

- [280] Matilde Marcolli and John Napp. Quantum computation and real multiplication. *Mathematics in Computer Science*, 9(1):63–84, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0179-8>.

Talwar:2015:SSA

- [281] Jyoti Talwar and Ranjan Kumar Mohanty. A single sweep AGE algorithm based on off-step discretization for the solution of viscous Burgers’ equation on a variable mesh. *Mathematics in Computer Science*, 9(1):85–103, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0194-9>.

Daykin:2015:AGC

- [282] Jacqueline W. Daykin, Costas S. Iliopoulos, Mirka Miller, and Oudone Phanalasy. Antimagicalness of generalized corona and snowflake graphs. *Mathematics in Computer Science*, 9(1):105–111, March 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0213-x>.

Paul:2015:LPB

- [283] Satyabrata Paul, Madhumangal Pal, and Anita Pal. $L(2,1)$ -labeling of permutation and bipartite permutation graphs. *Mathematics in Computer Science*, 9(1):113–123, March 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0180-2>.

Miller:2015:F

- [284] Mirka Miller, Bharati Rajan, and Indra Rajasingh. Foreword. *Mathematics in Computer Science*, 9(2):125–126, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0235-z>; <http://link.springer.com/content/pdf/10.1007/s11786-015-0235-z.pdf>.

Abawajy:2015:DCS

- [285] J. Abawajy, A. V. Kelarev, M. Miller, and J. Ryan. Distances of centroid sets in a graph-based construction for information security applications. *Mathematics in Computer Science*, 9(2):127–137, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0217-1>.

Baca:2015:ALJ

- [286] Martin Baca, Oudone Phanalasy, and Joe Ryan. Antimagic labelings of join graphs. *Mathematics in Computer Science*, 9(2):139–143, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL

<http://link.springer.com/article/10.1007/s11786-015-0218-0>.

Conde:2015:NAM

- [287] Josep Conde, Mirka Miller, Josep M. Miret, and Kumar Saurav. On the nonexistence of almost Moore digraphs of degree four and five. *Mathematics in Computer Science*, 9(2):145–149, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0219-z>.

Rajasingh:2015:TVI

- [288] Indra Rajasingh and V. Annamma. Total vertex irregularity strength of 1-fault tolerant Hamiltonian graphs. *Mathematics in Computer Science*, 9(2):151–160, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0220-6>.

Indriati:2015:TEI

- [289] Diari Indriati, Widodo, and Indah E. Wijayanti. On total edge irregularity strength of generalized Web graphs and related graphs. *Mathematics in Computer Science*, 9(2):161–167, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0221-5>.

Quadras:2015:DPC

- [290] Jasintha Quadras and Sajiya Merlin Mahizl Albert. Domination parameters in coronene torus network. *Mathematics in Computer Science*, 9(2):169–175, June 2015. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0222-6>.

com/article/10.1007/s11786-015-0222-4.

Manuel:2015:BFC

Quadras:2015:EFH

- [291] Jasintha Quadras and Sarah Surya Solomon. Embedding of the folded hypercubes into tori. *Mathematics in Computer Science*, 9(2):177–183, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0223-3>.

- [295] Paul Manuel and A. S. Shanthi. Berge–Fulkerson conjecture on certain snarks. *Mathematics in Computer Science*, 9(2):209–220, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0227-z>.

Jesintha:2015:AUB

- [292] J. Jeba Jesintha and K. Ezhilarasi Hilda. All uniform bow graphs are graceful. *Mathematics in Computer Science*, 9(2):185–191, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0224-2>.

- [296] Indra Rajasingh, Micheal Arockiaraj, and Jasintha Quadras. Linear layout of directed grid graph. *Mathematics in Computer Science*, 9(2):221–227, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0228-y>.

Rajasingh:2015:LLD

Punitha:2015:SKN

- [293] M. Joice Punitha. Strong kernel number in certain oriented cycle extension of graphs. *Mathematics in Computer Science*, 9(2):193–199, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0225-1>.

- [297] Rismawati Ramdani, A. N. M. Salman, and Hilda Assiyatun. Total irregularity strength of three families of graphs. *Mathematics in Computer Science*, 9(2):229–237, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0229-x>.

Ramdani:2015:TIS

Manuel:2015:SMD

- [294] Paul Manuel, Bharati Rajan, and Cyriac Grigorious. On the strong metric dimension of tetrahedral diamond lattice. *Mathematics in Computer Science*, 9(2):201–208, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0226-0>.

Pushpam:2015:SRD

- [298] P. Roushini Leely Pushpam and Chitra Suseendran. Secure restrained domination in graphs. *Mathematics in Computer Science*, 9(2):239–247, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0230-4>.

Sethuraman:2015:CPT

- [299] G. Sethuraman, A. Velankanni, and S. Anbarasu. Cycle partition of two-connected and two-edge connected graphs. *Mathematics in Computer Science*, 9(2):249–252, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0231-3>.

Rajan:2015:ERC

- [300] R. Sundara Rajan, N. Parthiban, and T. M. Rajalaxmi. Embedding of recursive circulants into certain neck-lace graphs. *Mathematics in Computer Science*, 9(2):253–263, June 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0232-2>.

Fontaine:2015:FSF

- [301] Pascal Fontaine, Thomas Sturm, and Uwe Waldmann. Foreword to the special focus on constraints and combinations. *Mathematics in Computer Science*, 9(3):265, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-015-0239-8.pdf>.

Fukasaku:2015:QAA

- [302] Ryoya Fukasaku, Shutaro Inoue, and Yosuke Sato. On QE algorithms over an algebraically closed field based on comprehensive Gröbner systems. *Mathematics in Computer Science*, 9(3):267–281, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL

<http://link.springer.com/article/10.1007/s11786-015-0237-x>.

Hagemann:2015:EGO

- [303] Willem Hagemann. Efficient geometric operations on convex polyhedra, with an application to reachability analysis of hybrid systems. *Mathematics in Computer Science*, 9(3):283–325, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0238-9>.

Suda:2015:VCE

- [304] Martin Suda. Variable and clause elimination for LTL satisfiability checking. *Mathematics in Computer Science*, 9(3):327–344, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0240-2>.

Wintraecken:2015:OTC

- [305] M. H. M. J. Wintraecken and G. Venter. On the optimal triangulation of convex hypersurfaces, whose vertices lie in ambient space. *Mathematics in Computer Science*, 9(3):345–353, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0216-7>.

Panayotopoulos:2015:PMC

- [306] A. Panayotopoulos and P. Vlamos. Partitioning the meandering curves. *Mathematics in Computer Science*, 9(3):355–364, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0234-0>.

Koepf:2015:AAF

- [307] Wolfram Koepf and Etienne Nana Chidjeu. Algorithmic approach for formal Fourier series. *Mathematics in Computer Science*, 9(3):365–389, October 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-014-0215-8>.

Marculli:2015:GGI

- [308] Matilde Marcolli and Alexander Port. Graph grammars, insertion Lie algebras, and quantum field theory. *Mathematics in Computer Science*, 9(4):391–408, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0236-y>.

Stadler:2015:CS

- [309] Bärbel M. R. Stadler and Peter F. Stadler. Connectivity spaces. *Mathematics in Computer Science*, 9(4):409–436, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0241-1>.

Berkemer:2015:SCR

- [310] Sarah J. Berkemer, Ricardo R. C. Chaves, and Adrian Fritz. Spiders can be recognized by counting their legs. *Mathematics in Computer Science*, 9(4):437–441, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0233-1>.

Muhshi:2015:MSR

- [311] Hadi Muhshi and Edy Tri Baskoro. Matching-star Ramsey minimal graphs. *Mathematics in Computer Science*, 9(4):443–452, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0244-y>.

Man:2015:CMA

- [312] Yiu-Kwong Man. On computing the measurable amounts of the two jugs problem. *Mathematics in Computer Science*, 9(4):453–459, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0242-0>.

Kumar:2015:LBC

- [313] Sandeep Ameet Kumar, Jito Vanualailai, and Bibhya Sharma. Lyapunov-based control for a swarm of planar nonholonomic vehicles. *Mathematics in Computer Science*, 9(4):461–475, December 2015. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-015-0243-z>.

Sendra:2016:F

- [314] J. Rafael Sendra, Dongming Wang, and Jing Yang. Foreword. *Mathematics in Computer Science*, 10(1):1–3, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-016-0263-3.pdf>.

Botana:2016:UUT

- [315] Francisco Botana and Tomas Recio. On the unavoidable uncertainty of truth in dynamic geometry proving. *Mathematics in Computer Science*, 10(1):5–25, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0246-4>.

Schreck:2016:CCT

- [316] Pascal Schreck, Vesna Marinković, and Predrag Janićić. Constructibility classes for triangle location problems. *Mathematics in Computer Science*, 10(1):27–39, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0255-3>.

Schreck:2016:ACC

- [317] Pascal Schreck and Pascal Mathis. Automatic constructibility checking of a corpus of geometric construction problems. *Mathematics in Computer Science*, 10(1):41–56, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0247-3>.

Narboux:2016:TCV

- [318] Julien Narboux and David Braun. Towards a certified version of the encyclopedia of triangle centers. *Mathematics in Computer Science*, 10(1):57–73, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0254-4>.

Shao:2016:CTP

- [319] Changpeng Shao, Hongbo Li, and Lei Huang. Challenging theorem provers with mathematical Olympiad problems in solid geometry. *Mathematics in Computer Science*, 10(1):75–96, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0256-2>.

Dorst:2016:CCM

- [320] Leo Dorst. The construction of 3D conformal motions. *Mathematics in Computer Science*, 10(1):97–113, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-016-0250-8.pdf>.

Bowers:2016:GUM

- [321] John C. Bowers and Ileana Streinu. Geodesic universal molecules. *Mathematics in Computer Science*, 10(1):115–141, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0253-5>.

Lichtblau:2016:FOP

- [322] Daniel Lichtblau. First order perturbation and local stability of parametrized systems. *Mathematics in Computer Science*, 10(1):143–163, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0249-1>.

Brunat:2016:CCR

- [323] Josep M. Brunat and Antonio Montes. Computing the canonical representation of constructible sets. *Mathematics in Computer Science*, 10(1):165–178, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0248-2>.

Ricca:2016:DCS

- [324] Giorgio Ricca, Mauro C. Beltrametti, and Anna Maria Massone. Detecting curves of symmetry in images via Hough transform. *Mathematics in Computer Science*, 10(1):179–205, March 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0245-5>.

Rajan:2016:FSF

- [325] Bharati Rajan, Ibrahim Venkat, and K. G. Subramanian. Foreword to the special focus on graph theory and applications. *Mathematics in Computer Science*, 10(2):207–208, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-016-0272-2.pdf>.

Bera:2016:SPW

- [326] Somnath Bera and Kalpana Mahalingam. Structural properties of word representable graphs. *Mathematics in Computer Science*, 10(2):209–222, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0257-1>.

Wong:2016:CBC

- [327] Denis C. K. Wong. Constructions of binary codes based on bipartite graphs. *Mathematics in Computer Science*, 10(2):223–227, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0258-0>.

Nagar:2016:ECI

- [328] Atulya K. Nagar and S. Sriram. On eccentric connectivity index of eccentric graph of regular dendrimer. *Mathematics in Computer Science*, 10(2):229–237, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0259-z>.

Sivagami:2016:CCN

- [329] P. Sivagami and Indra Rajasingh. T -coloring of certain networks. *Mathematics in Computer Science*, 10(2):239–248, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0260-6>.

Mahmood:2016:MCE

- [330] Ali Abdulkareem Mahmood, Ali Maroosi, and Ravie Chandren Muniyandi. Membrane computing to enhance time efficiency of minimum dominating set. *Mathematics in Computer Science*, 10(2):249–261, June 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0261-5>.

Sivaselvan:2016:IMQ

- [331] K. Sivaselvan and C. Vijayalakshmi. Implementation of Markovian queueing network model with multiple closed chains. *Mathematics in Computer Science*, 10(2):263–272, June 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0262-4>.

Dochviri:2016:TFS

- [332] Irakli Dochviri and James F. Peters. Topological sorting of finitely near sets. *Mathematics in Computer Science*, 10(2):273–277, June 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0273-1>.

Gavina:2016:IAC

- [333] Alexandra Gavina, José Matos, and Paulo Vasconcelos. Improving the accuracy of Chebyshev Tau method for nonlinear differential problems. *Mathematics in Computer Science*, 10(2):279–289, June 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0265-1>.

Conceicao:2016:ESS

- [334] Ana C. Conceição and José C. Pereira. Exploring the spectra of some classes of singular integral operators with symbolic computation. *Mathematics in Computer Science*, 10(2):291–309, June 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0264-2>.

Loja:2016:FSF

- [335] Amélia Loja, José Alberto Rodrigues, and Ana C. Conceição. Foreword to the special focus on advances in symbolic and numeric computation. *Mathematics in Computer Science*, 10(3):311–312, September 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-016-0270-4.pdf>.

Trindade:2016:TLM

- [336] M. Trindade, J. Matos, and P. B. Vasconcelos. Towards a Lanczos’ τ -method toolkit for differential problems. *Mathematics in Computer Science*, 10(3):313–329, September 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0269-x>.

Rachah:2016:DOC

- [337] Amira Rachah and Delfim F. M. Torres. Dynamics and optimal control of Ebola transmission. *Mathematics in Computer Science*, 10(3):331–342, September 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0268-y>.

Maia:2016:TDC

- [338] Rúben Maia, Ricardo Branco, F. V. Antunes, M. C. Oliveira, and Andrei Kotousov. Three-dimensional computational analysis of stress state transition in through-cracked plates. *Mathematics in Computer Science*, 10(3):343–352, September 2016. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0267-z>.

com/article/10.1007/s11786-016-0267-z.

Escobar:2016:CLA

- [339] J. M. Escobar, J. Núñez, and P. Pérez-Fernández. On contractions of Lie algebras. *Mathematics in Computer Science*, 10(3):353–364, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0266-0>.

Conceicao:2016:SCA

- [340] Ana C. Conceição, Rui C. Marreiros, and José C. Pereira. Symbolic computation applied to the study of the kernel of a singular integral operator with non-Carleman shift and conjugation. *Mathematics in Computer Science*, 10(3):365–386, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0271-3>.

Akram:2016:PFL

- [341] Muhammad Akram and Arooj Adeel. \vec{m} -polar fuzzy labeling graphs with application. *Mathematics in Computer Science*, 10(3):387–402, September 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0277-x>.

Hammack:2016:ANA

- [342] Richard H. Hammack, Marc Hellmuth, Lydia Ostermeier, and Peter F. Stadler. Associativity and non-associativity of some hypergraph products. *Mathematics in Computer Science*, 10(3):403–408, September 2016. CODEN ???? ISSN 1661-8270

(print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0276-y>.

Guidi:2016:SRM

- [343] Ferruccio Guidi and Claudio Sacerdoti Coen. A survey on retrieval of mathematical knowledge. *Mathematics in Computer Science*, 10(4):409–427, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0274-0>.

Raggi:2016:ACR

- [344] Daniel Raggi, Alan Bundy, Gudmund Grov, and Alison Pease. Automating change of representation for proofs in discrete mathematics (extended version). *Mathematics in Computer Science*, 10(4):429–457, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-016-0275-z.pdf>.

Manin:2016:SS

- [345] Yuri I. Manin and Matilde Marcolli. Semantic spaces. *Mathematics in Computer Science*, 10(4):459–477, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-016-0278-9>.

Wang:2016:CBR

- [346] Dongming Wang. On the connection between ritt characteristic sets and Buchberger–Gröbner bases. *Mathematics in Computer Science*, 10(4):479–492, December 2016. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (elec-

tronic). URL <http://link.springer.com/article/10.1007/s11786-016-0279-8>.

Kotsireas:2017:MCS

- [347] Ilias S. Kotsireas. Mathematics in computer science: After 10 years. *Mathematics in Computer Science*, 11(1):1–6, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0312-6.pdf>.

Chen:2017:AOR

- [348] Yuqun Chen, Haibin Wu, and Honglian Xie. Automaticity of one-relator semigroups with length less than or equal to three. *Mathematics in Computer Science*, 11(1):7–33, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-017-0291-7>.

Emiris:2017:AMS

- [349] Ioannis Z. Emiris, Anna Karasoulou, and Charilaos Tzovas. Approximating multidimensional subset sum and Minkowski decomposition of polygons. *Mathematics in Computer Science*, 11(1):35–48, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-017-0297-1>.

Galan-Garcia:2017:GAA

- [350] José Luis Galán-García, Salvador Merino, Javier Martínez, and Miguel De Aguilera. Genetic and algebraic algorithms for classifying the items of a Likert questionnaire. *Mathematics in*

Computer Science, 11(1):49–59, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-017-0289-1>.

Hashemi:2017:GSC

- [351] Amir Hashemi, Mahdi Dehghani Darmian, and Marzieh Barkhordar. Gröbner systems conversion. *Mathematics in Computer Science*, 11(1):61–77, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-017-0295-3>.

Shu:2017:SSC

- [352] Kevin Shu and Matilde Marcolli. Syntactic structures and code parameters. *Mathematics in Computer Science*, 11(1):79–90, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-017-0298-0>.

Yang:2017:STR

- [353] Fan Yang, Xiao-Xiao Li, Dun-Gang Li, and Lan Wang. The simplified Tikhonov regularization method for solving a Riesz–Feller space–fractional backward diffusion problem. *Mathematics in Computer Science*, 11(1):91–110, March 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/article/10.1007/s11786-017-0292-6>.

Iliopoulos:2017:F

- [354] Costas S. Iliopoulos and Alessio Langiu. Foreword. *Mathematics in Computer Science*, 11(2):111–112, June 2017. CODEN ???? ISSN 1661-8270 (print),

1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0323-3.pdf>.

BenNsira:2017:LSM

- [355] Nadia Ben Nsira, Mourad Elloumi, and Thierry Lecroq. On-line string matching in highly similar DNA sequences. *Mathematics in Computer Science*, 11(2):113–126, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Kim:2017:RTO

- [356] Jinil Kim, Amihood Amir, Joong Chae Na, Kunsoo Park, and Jeong Seop Sim. On representations of ternary order relations in numeric strings. *Mathematics in Computer Science*, 11(2):127–136, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Karkkainen:2017:ELE

- [357] Juha Kärkkäinen and Dominik Kempa. Engineering a lightweight external memory suffix array construction algorithm. *Mathematics in Computer Science*, 11(2):137–149, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Gagie:2017:CSS

- [358] Travis Gagie, Giovanni Manzini, and Daniel Valenzuela. Compressed spaced suffix arrays. *Mathematics in Computer Science*, 11(2):151–157, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Tischler:2017:FAC

- [359] German Tischler. Faster average case low memory semi-external construction of the Burrows–Wheeler trans-

form. *Mathematics in Computer Science*, 11(2):159–176, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0296-2.pdf>.

Davoodi:2017:SRB

- [360] Pooya Davoodi, Rajeev Raman, and Srinivasa Rao Satti. On succinct representations of binary trees. *Mathematics in Computer Science*, 11(2):177–189, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Gagie:2017:BGP

- [361] Travis Gagie, Christopher Hoobin, and Simon J. Puglisi. Block graphs in practice. *Mathematics in Computer Science*, 11(2):191–196, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Vlachakis:2017:APA

- [362] Dimitrios Vlachakis, Alexandros Armaos, and Sophia Kossida. Advanced protein alignments based on sequence, structure and hydrophathy profiles; the paradigm of the viral polymerase enzyme. *Mathematics in Computer Science*, 11(2):197–208, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

Daykin:2017:ISF

- [363] Jacqueline W. Daykin and Bruce Watson. Indeterminate string factorizations and degenerate text transformations. *Mathematics in Computer Science*, 11(2):209–218, June 2017. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://>

link.springer.com/content/pdf/10.1007/s11786-016-0285-x.pdf.

Hasan:2017:PSA

- [364] Md. Mahbulul Hasan, A. S. M. Sohidul Islam, M. Sohel Rahman, and Ayon Sen. Palindromic subsequence automata and longest common palindromic subsequence. *Mathematics in Computer Science*, 11(2):219–232, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Ferdous:2017:SMC

- [365] S. M. Ferdous and M. Sohel Rahman. Solving the minimum common string partition problem with the help of ants. *Mathematics in Computer Science*, 11(2):233–249, June 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Dana-Picard:2017:F

- [366] Thierry Dana-Picard, Wolfram Koepf, Ilias Kotsireas, Zoltán Kovács, Alexander Prokopenya, and Werner Seiler. Foreword. *Mathematics in Computer Science*, 11(3–4):251–252, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0324-2.pdf>.

Bavula:2017:QGW

- [367] V. V. Bavula. Quiver generalized Weyl algebras, skew category algebras and diskew polynomial rings. *Mathematics in Computer Science*, 11(3–4):253–268, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0313-5.pdf>.

springer.com/content/pdf/10.1007/s11786-017-0313-5.pdf.

Hussein:2017:GII

- [368] Wuria Muhammad Ameen Hussein and Colin Christopher. A geometric investigation of the invariant algebraic curves in two dimensional Lotka–Volterra systems. *Mathematics in Computer Science*, 11(3–4):269–283, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Dana-Picard:2017:FIB

- [369] Thierry Dana-Picard and David G. Zeitoun. A framework for an ICT–Based study of parametric integrals. *Mathematics in Computer Science*, 11(3–4):285–296, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Davenport:2017:WDL

- [370] James H. Davenport. What does “without loss of generality” mean, and how do we detect it. *Mathematics in Computer Science*, 11(3–4):297–303, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0316-2.pdf>.

Durcheva:2017:ACT

- [371] Mariana Durcheva and Elena Varbanova. Applications of CAS in the teaching and learning of discrete mathematics. *Mathematics in Computer Science*, 11(3–4):305–314, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Duzhin:2017:MAC

- [372] Vasilii Duzhin and Nikolay Vasilyev. Modeling of an asymptotically central Markov process on 3D Young graph. *Mathematics in Computer Science*, 11(3–4):315–328, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Furst:2017:RRB

- [373] Christoph Fürst and Alexander Levin. Relative reduction and Buchberger’s algorithm in filtered free modules. *Mathematics in Computer Science*, 11(3–4):329–339, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0317-1.pdf>.

Jeffrey:2017:BSI

- [374] David J. Jeffrey. Branch structure and implementation of Lambert W . *Mathematics in Computer Science*, 11(3–4):341–350, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Kovacs:2017:RTA

- [375] Zoltán Kovács. Real-time animated dynamic geometry in the classrooms by using fast Gröbner basis computations. *Mathematics in Computer Science*, 11(3–4):351–361, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Wojas:2017:FSD

- [376] Włodzimierz Wojas and Jan Krupa. Familiarizing students with definition of Lebesgue integral: Examples of

calculation directly from its definition using Mathematica. *Mathematics in Computer Science*, 11(3–4):363–381, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0321-5.pdf>.

Minglibayev:2017:TBP

- [377] M. Zh. Minglibayev, A. N. Prokopenya, G. M. Mayemerova, and Zh. U. Imanova. Three-body problem with variable masses that change anisotropically at different rates. *Mathematics in Computer Science*, 11(3–4):383–391, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Oldenburg:2017:TRB

- [378] Reinhard Oldenburg. Transparent rule based CAS to support formalization of knowledge. *Mathematics in Computer Science*, 11(3–4):393–399, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Farrington:2017:SCR

- [379] Eleanor Farrington and Emma Previato. Symbolic computation for Rankin–Cohen differential algebras: A case study. *Mathematics in Computer Science*, 11(3–4):401–415, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Prokopenya:2017:MSA

- [380] Alexander N. Prokopenya. Motion of a swinging Atwood’s machine: Simulation and analysis with Mathematica. *Mathematics in Computer Science*, 11(3–4):417–425, December 2017. CODEN

???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0301-9.pdf>.

Quaresma:2017:TID

- [381] Pedro Quaresma. Towards an intelligent and dynamic geometry book. *Mathematics in Computer Science*, 11(3–4):427–437, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Roanes-Lozano:2017:BNA

- [382] Eugenio Roanes-Lozano. A brief note on the approach to the conic sections of a right circular cone from dynamic geometry. *Mathematics in Computer Science*, 11(3–4):439–448, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Sarafian:2017:ACA

- [383] Haiduke Sarafian. Application of computer algebra system and the mean-value theory for evaluating electrostatic potential and its associated field for non-trivial configurations. *Mathematics in Computer Science*, 11(3–4):449–455, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Siluszyk:2017:CCC

- [384] Agnieszka Siluszyk. On a class of central configurations in the planar $3\vec{n}$ -body problem. *Mathematics in Computer Science*, 11(3–4):457–467, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-017-0309-1.pdf>.

Chrapary:2017:DCS

- [385] Hagen Chrapary, Wolfgang Dalitz, Winfried Neun, and Wolfram Sperber. Design, concepts, and state of the art of the swMATH service. *Mathematics in Computer Science*, 11(3–4):469–481, December 2017. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Noro:2018:UMT

- [386] Masayuki Noro and Kazuhiro Yokoyama. Usage of modular techniques for efficient computation of ideal operations. *Mathematics in Computer Science*, 12(1):1–32, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Port:2018:PTS

- [387] Alexander Port, Iulia Gheorghita, Daniel Guth, John M. Clark, Crystal Liang, Shival Dasu, and Matilde Marcolli. Persistent topology of syntax. *Mathematics in Computer Science*, 12(1):33–50, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Kleine:2018:EDI

- [388] Kristoffer Kleine and Dimitris E. Simos. An efficient design and implementation of the in-parameter-order algorithm. *Mathematics in Computer Science*, 12(1):51–67, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Wang:2018:UDQ

- [389] Haohao Wang and Ron Goldman. Using dual quaternion to study translational surfaces. *Mathematics in Computer Science*, 12(1):69–75, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Lu:2018:ALL

- [390] Yingyu Lu, Guanghua Dong, Wenhui Ma, and Ning Wang. Antimagic labeling of the lexicographic product graph $K_{m,n}[P_k]$. *Mathematics in Computer Science*, 12(1):77–90, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

DiConcilio:2018:DPP

- [391] A. Di Concilio, C. Guadagni, J. F. Peters, and S. Ramanna. Descriptive proximities. properties and interplay between classical proximities and overlap. *Mathematics in Computer Science*, 12(1):91–106, March 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Loja:2018:FSF

- [392] Amélia Loja, Stéphane Louis Clain, Joaquim Infante Barbosa, and José Alberto Rodrigues. Foreword to the special focus on advances in symbolic and numeric computation II. *Mathematics in Computer Science*, 12(2):107–109, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0341-9.pdf>.

Allali:2018:AOC

- [393] Karam Allali, Sanaa Harroudi, and Delfim F. M. Torres. Analysis and optimal control of an intracellular delayed HIV model with CTL immune response. *Mathematics in Computer Science*, 12(2):111–127, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Mendes:2018:PCM

- [394] I. R. Mendes and P. B. Vasconcelos. PageRank computation with MAAOR and lumping methods. *Mathematics in Computer Science*, 12(2):129–141, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Escobar:2018:NOP

- [395] J. M. Escobar, J. Núñez, and P. Pérez-Fernández. A new one-parameter invariant function for algebras. *Mathematics in Computer Science*, 12(2):143–150, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Macedo:2018:SAG

- [396] Ângela Macedo, Teresa A. Mesquita, and Zélia da Rocha. Symbolic approach to the general quadratic polynomial decomposition. *Mathematics in Computer Science*, 12(2):151–172, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Ralha:2018:MPB

- [397] Rui Ralha. Mixed precision bisection. *Mathematics in Computer Science*, 12(2):173–181, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Trindade:2018:DFC

- [398] M. Trindade, J. Matos, and P. B. Vasconcelos. Dealing with functional coefficients within Tau method. *Mathematics in Computer Science*, 12(2):183–195, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Matos:2018:SDI

- [399] J. C. Matos, J. M. A. Matos, and M. J. Rodrigues. Solving differential and integral equations with Tau method. *Mathematics in Computer Science*, 12(2):197–205, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Retzlaff:2018:PLM

- [400] Nancy Retzlaff and Peter F. Stadler. Partially local multi-way alignments. *Mathematics in Computer Science*, 12(2):207–234, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0338-4.pdf>.

Artinescu:2018:SCA

- [401] Irina Maria Artinescu and Liviu Octavian Maftciu-Scail. A scratch covering algorithm using affine projection method. *Mathematics in Computer Science*, 12(2):235–246, June 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Martinez-Moro:2018:F

- [402] Edgar Martínez-Moro, Josep M. Miret, and Luis Ramiro Piñero. Foreword. *Mathematics in Computer Science*, 12(3):247–250, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0371-3.pdf>.

Badia:2018:EPM

- [403] Valentina Badia, Hebert Pérez-Rosés, and Joe Ryan. Eulogy for Professor Mirka Miller (1949–2016). *Mathe-*

matics in Computer Science, 12(3):251–254, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Ryan:2018:BSC

- [404] Joe Ryan. A brief survey on the contribution of Mirka Miller to the security of statistical databases. *Mathematics in Computer Science*, 12(3):255–262, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Salas:2018:SBP

- [405] Julián Salas and Josep Domingo-Ferrer. Some basics on privacy techniques, anonymization and their big data challenges. *Mathematics in Computer Science*, 12(3):263–274, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Perez-Roses:2018:SYN

- [406] Hebert Pérez-Rosés. Sixty years of network reliability. *Mathematics in Computer Science*, 12(3):275–293, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Abarzua:2018:ASC

- [407] Rodrigo Abarzúa, Santi Martínez, Valeria Mendoza, and Javier Valera. Avoiding side-channel attacks by computing isogenous and isomorphic elliptic curves. *Mathematics in Computer Science*, 12(3):295–307, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Miret:2018:PBC

- [408] Josep M. Miret, Daniel Sadornil, and Juan G. Tena. Pairing-based cryp-

tography on elliptic curves. *Mathematics in Computer Science*, 12(3):309–318, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Adj:2018:STP

- [409] Gora Adj, Isaac Canales-Martínez, Luis Rivera-Zamarripa, and Francisco Rodríguez-Henríquez. Smoothness test for polynomials defined over small characteristic finite fields. *Mathematics in Computer Science*, 12(3):319–337, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Borges-Quintana:2018:WOI

- [410] Mijail Borges-Quintana, Miguel Ángel Borges-Trenard, and Edgar Martínez-Moro. On the weak order ideal associated to linear codes. *Mathematics in Computer Science*, 12(3):339–347, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Climent:2018:BFD

- [411] Joan-Josep Climent, Francisco J. García, and Verónica Requena. Boolean functions: Degree and support. *Mathematics in Computer Science*, 12(3):349–369, September 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Goyeneche:2018:F

- [412] Dardo Goyeneche, Ilias Kotsireas, and Padraig Ó Catháin. Foreword. *Mathematics in Computer Science*, 12(4):371–372, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0388-7.pdf>.

[springer.com/content/pdf/10.1007/s11786-018-0388-7.pdf](http://link.springer.com/content/pdf/10.1007/s11786-018-0388-7.pdf).

Djokovic:2018:GSD

- [413] Dragomir Z. Đoković and Ilias S. Kotsireas. Goethals–Seidel difference families with symmetric or skew base blocks. *Mathematics in Computer Science*, 12(4):373–388, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Crnkovic:2018:NST

- [414] Dean Crnković and Ronan Egan. A note on Siamese twin designs intersecting in a BIBD and a PBD. *Mathematics in Computer Science*, 12(4):389–395, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Acevedo:2018:RDS

- [415] Santiago Barrera Acevedo and Heiko Dietrich. Relative difference sets and Hadamard matrices from perfect quaternionic arrays. *Mathematics in Computer Science*, 12(4):397–406, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Alvarez:2018:MHG

- [416] V. Alvarez, J. A. Armario, R. M. Falcón, M. D. Frau, F. Gudiel, M. B. Güemes, and A. Osuna. A mixed heuristic for generating cocyclic Hadamard matrices. *Mathematics in Computer Science*, 12(4):407–417, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Armario:2018:QHF

- [417] José Andrés Armario, Iván Bailera, Joaquim Borges, and Josep Rifà. Quasi-Hadamard full propelinear codes. *Math-*

ematics in Computer Science, 12(4): 419–428, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Colbourn:2018:CFF

- [418] Charles J. Colbourn and Violet R. Syrotiuk. On a combinatorial framework for fault characterization. *Mathematics in Computer Science*, 12(4):429–451, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Gillespie:2018:COA

- [419] Neil I. Gillespie, Pdraig Ó Catháin, and Cheryl E. Praeger. Construction of the outer automorphism of S_6 via a complex Hadamard matrix. *Mathematics in Computer Science*, 12(4): 453–458, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0382-0.pdf>.

Bruzda:2018:ESC

- [420] Wojciech T. Bruzda. Extension of the set of complex Hadamard matrices of size 8. *Mathematics in Computer Science*, 12(4):459–464, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0379-8.pdf>.

Winterhof:2018:NES

- [421] Arne Winterhof, Oguz Yayla, and Volker Ziegler. Non-existence of some nearly perfect sequences, near Butson–Hadamard matrices, and near conference matrices. *Mathematics in Computer Science*, 12(4):465–471, December

2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Rajchel:2018:RHM

- [422] Grzegorz Rajchel, Adam Gasiorowski, and Karol Zyczkowski. Robust Hadamard matrices, unistochastic rays in Birkhoff polytope and equi-entangled bases in composite spaces. *Mathematics in Computer Science*, 12(4): 473–490, December 2018. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0384-y.pdf>.

Beaudin:2019:F

- [423] Michel Beaudin, Thierry Dana-Picard, Alexander Levin, Christoph Koutschan, Ilias Kotsireas, and Daniel Robertz. Foreword. *Mathematics in Computer Science*, 13(1–2):1–3, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00391-x.pdf>.

Benjamin:2019:APS

- [424] Jurell Benjamin, Donna Walker, Aleksandr Mylläri, and Tatiana Mylläri. On the applicability of pairwise separations method in astronomy: Influence of the noise in data. *Mathematics in Computer Science*, 13(1–2):5–10, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Blanco-Trejo:2019:FTA

- [425] S. Blanco-Trejo, C. Alemán-Morillo, F. Díaz del Río, and P. Real. Fractal topological analysis for 2D binary digital images. *Mathematics in Computer*

Science, 13(1–2):11–20, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Blaser:2019:DC

- [426] Nello Blaser and Morten Brun. Divisive cover. *Mathematics in Computer Science*, 13(1–2):21–29, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0352-6.pdf>.

Blazek:2019:LCD

- [427] Jirí Blazek and Pavel Pech. Locus computation in dynamic geometry environment. *Mathematics in Computer Science*, 13(1–2):31–40, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Chan:2019:MHC

- [428] E. Y. S. Chan and R. M. Corless. Minimal height companion matrices for Euclid polynomials. *Mathematics in Computer Science*, 13(1–2):41–56, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Dana-Picard:2019:ASR

- [429] Thierry Dana-Picard. Automated study of a regular trifolium. *Mathematics in Computer Science*, 13(1–2):57–67, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Durcheva:2019:HUC

- [430] Mariana Durcheva. How to use CAS (Maple) to help students learn number theory. *Mathematics in Computer Science*, 13(1–2):69–78, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Fukasaku:2019:MHQ

- [431] Ryoya Fukasaku, Hidenao Iwane, and Yosuke Sato. On multivariate Hermitian quadratic forms. *Mathematics in Computer Science*, 13(1–2):79–93, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Hasek:2019:DGS

- [432] R. Hasek. Dynamic geometry software supplemented with a computer algebra system as a proving tool. *Mathematics in Computer Science*, 13(1–2):95–104, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Kagan:2019:PPR

- [433] Mikhail Kagan and Brian Mata. A physics perspective on the resistance distance for graphs. *Mathematics in Computer Science*, 13(1–2):105–115, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Karsenty:2019:CAC

- [434] Avi Karsenty and Yaakov Mandelbaum. Computer algebra challenges in nanotechnology: Accurate modeling of nanoscale Electro-optic devices using finite elements method. *Mathematics in Computer Science*, 13(1–2):117–130, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Kovacs:2019:ACA

- [435] Zoltán Kovács. Achievements and challenges in automatic locus and envelope animations in dynamic geometry. *Mathematics in Computer Science*, 13(1–2):131–141, June 2019. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link>.

springer.com/content/pdf/10.1007/s11786-018-0390-0.pdf.

Kozera:2019:MHI

- [436] R. Kozera and M. Wilkołazka. A modified Hermite interpolation with exponential parameterization. *Mathematics in Computer Science*, 13(1–2):143–155, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-018-0362-4.pdf>.

Levin:2019:BDQ

- [437] Alexander Levin. Bivariate dimension quasi-polynomials of difference-differential field extensions with weighted basic operators. *Mathematics in Computer Science*, 13(1–2):157–168, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Mansour:2019:PPC

- [438] Toufik Mansour and Matthias Schork. Permutation patterns and cell decompositions. *Mathematics in Computer Science*, 13(1–2):169–183, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Nabeshima:2019:SPI

- [439] Katsusuke Nabeshima and Shinichi Tajima. Solving parametric ideal membership problems and computing integral numbers in a ring of convergent power series via comprehensive Gröbner systems. *Mathematics in Computer Science*, 13(1–2):185–194, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Naiman:2019:AFA

- [440] Aaron E. Naiman. Automated function analysis for calculus. *Mathematics in Computer Science*, 13(1–2):195–204, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Ohara:2019:ACG

- [441] Katsuyoshi Ohara and Shinichi Tajima. An algorithm for computing Grothendieck local residues I: Shape basis case. *Mathematics in Computer Science*, 13(1–2):205–216, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Ovodenko:2019:UDT

- [442] Regina Ovodenko and Anatoli Kouropatov. The use of digital tools to confront errors during advanced calculus learning: The case of the inflection point. *Mathematics in Computer Science*, 13(1–2):217–236, June 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Galan-Garcia:2019:F

- [443] José L. Galán-García, Gabriel Aguilera-Venegas, and María Á. Galán-García. Foreword. *Mathematics in Computer Science*, 13(3):329–331, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00408-5.pdf>.

Lebedev:2019:MCQ

- [444] Eugene Lebedev and Hanna Livinska. Multi-channel queueing networks with input flow controlled by semi-Markov process. *Mathematics in Computer Science*, 13(3):333–340, September 2019.

CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Kohlwey:2019:HEE

- [445] Elena Kohlwey and Melven Röhrig-Zöllner. Half-explicit exponential Runge–Kutta methods for index-1 DAEs in helicopter simulation. *Mathematics in Computer Science*, 13(3):341–365, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Siggel:2019:TOS

- [446] Martin Siggel, Jan Kleinert, Tobias Stollenwerk, and Reinhold Maierl. TiGL: An open source computational geometry library for parametric aircraft design. *Mathematics in Computer Science*, 13(3):367–389, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Juarez-del-Toro:2019:AIC

- [447] R. Juarez del Toro, J. G. Castrejón-Lozano, C. A. Gomez-Rosales, and S. López-Chavarría. Application of an intelligent control on economics dynamic system: The attractive invariant ellipsoid approach. *Mathematics in Computer Science*, 13(3):391–401, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

deLeon:2019:CBM

- [448] José Alfredo Sánchez de León. Calculation of binomial and multinomial coefficients by sequences of summations. *Mathematics in Computer Science*, 13(3):403–415, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Roanes-Lozano:2019:SRA

- [449] Eugenio Roanes-Lozano, Jose Luis Galán-García, and Carmen Solano-Macías. Some reflections about the success and impact of the computer algebra system DERIVE with a 10-year time perspective. *Mathematics in Computer Science*, 13(3):417–431, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Aydogan:2019:CFC

- [450] S. Melike Aydogan and F. Müge Sakar. On convex functions with complex order through bounded boundary rotation. *Mathematics in Computer Science*, 13(3):433–439, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Sakar:2019:BIC

- [451] F. Müge Sakar and S. Melike Aydogan. Bounds on initial coefficients for a certain new subclass of bi-univalent functions by means of Faber polynomial expansions. *Mathematics in Computer Science*, 13(3):441–447, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Roanes-Lozano:2019:AAD

- [452] Eugenio Roanes-Lozano, Rubén González-Martín, and Javier Montero. An algebraic approach to DC railway electrification verification. *Mathematics in Computer Science*, 13(3):449–457, September 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Davenport:2019:F

- [453] James H. Davenport, Laura Kovacs, and Daniela Zaharie. Foreword. *Mathematics in Computer Science*, 13(4):

459–460, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00411-w.pdf>.

Huang:2019:UML

- [454] Zongyan Huang, Matthew England, David J. Wilson, James Bridge, James H. Davenport, and Lawrence C. Paulson. Using machine learning to improve cylindrical algebraic decomposition. *Mathematics in Computer Science*, 13(4):461–488, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00394-8.pdf>.

Andrei:2019:PBE

- [455] Stefan Andrei, Albert M. K. Cheng, and Vlad Radulescu. Processor bounding for an efficient non-preemptive task scheduling algorithm. *Mathematics in Computer Science*, 13(4):489–515, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Lichtblau:2019:APG

- [456] Daniel Lichtblau. Approximate polynomial GCD by approximate syzygies. *Mathematics in Computer Science*, 13(4):517–532, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Heule:2019:OSB

- [457] Marijn J. H. Heule. Optimal symmetry breaking for graph problems. *Mathematics in Computer Science*, 13(4):533–548, December 2019. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Panayotopoulos:2020:MC

- [458] A. Panayotopoulos. On meandric colliers. *Mathematics in Computer Science*, 14(1):1–8, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

daSilva:2020:VCG

- [459] Eduardo Sant’Ana da Silva and Helio Pedrini. Vertex coloring of a graph for memory constrained scenarios. *Mathematics in Computer Science*, 14(1):9–17, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Decker:2020:MTN

- [460] Wolfram Decker, Christian Eder, Viktor Levandovskyy, and Sharwan K. Tiwari. Modular techniques for noncommutative Gröbner bases. *Mathematics in Computer Science*, 14(1):19–33, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Sari:2020:DCS

- [461] Mustafa Sari and Emre Kolotoglu. A different construction for some classes of quantum MDS codes. *Mathematics in Computer Science*, 14(1):35–44, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Dana-Picard:2020:EIF

- [462] Thierry Dana-Picard, Aharon Naiman, Witold Mozgawa, and Waldemar Cieślak. Exploring the isoptics of Fermat curves in the affine plane using DGS and CAS. *Mathematics in Computer Science*, 14(1):45–67, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Blecher:2020:DC

- [463] Aubrey Blecher, Charlotte Brennan, Arnold Knopfmacher, and Toufik Mansour. The depth of compositions. *Mathematics in Computer Science*, 14(1):69–76, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Manin:2020:NDP

- [464] Yuri I. Manin and Matilde Marcolli. Nori diagrams and persistent homology. *Mathematics in Computer Science*, 14(1):77–102, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Aksim:2020:EAB

- [465] Dan Aksim and Dmitry Pavlov. On the extension of Adams–Bashforth–Moulton methods for numerical integration of delay differential equations and application to the Moon’s orbit. *Mathematics in Computer Science*, 14(1):103–109, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Dey:2020:THR

- [466] Papri Dey and Daniel Plaumann. Testing hyperbolicity of real polynomials. *Mathematics in Computer Science*, 14(1):111–121, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Hashemi:2020:CCB

- [467] Amir Hashemi, Martin Kreuzer, and Samira Pourkhajouei. Computing coupled border bases. *Mathematics in Computer Science*, 14(1):123–140, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Choudhary:2020:CTG

- [468] Aruni Choudhary, Siargey Kachanovich, and Mathijs Wintraecken. Coxeter triangulations have good quality. *Mathematics in Computer Science*, 14(1):141–176, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00461-5.pdf>.

Horacek:2020:SBB

- [469] Jan Horáček, Martin Kreuzer, and Ange-Salomé Messeng Ekosso. A signature based border basis algorithm. *Mathematics in Computer Science*, 14(1):177–189, March 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Bigatti:2020:F

- [470] Anna Maria Bigatti, Francisco Botana, Thierry Dana-Picard, Felipe Gago, Ilias Kotsireas, Manuel Ladra, and Wei Li. Foreword. *Mathematics in Computer Science*, 14(2):191–192, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00445-0.pdf>.

Almech:2020:AGD

- [471] Alberto Almech and Eugenio Roanes-Lozano. Automatic generation of diagrammatic subway maps for any date with Maple. *Mathematics in Computer Science*, 14(2):193–207, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Ku-Cauich:2020:CER

- [472] Juan Carlos Ku-Cauich and Guillermo Morales-Luna. Conversion of element

representations in Galois rings. *Mathematics in Computer Science*, 14(2): 209–222, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Kozera:2020:NMH

- [473] R. Kozera and M. Wilkołazka. A note on modified Hermite interpolation. *Mathematics in Computer Science*, 14(2): 223–239, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Minglibayev:2020:CPT

- [474] Mukhtar Minglibayev, Alexander Prokopenya, and Saule Shomshekova. Computing perturbations in the two-planetary three-body problem with masses varying non-isotropically at different rates. *Mathematics in Computer Science*, 14(2):241–251, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Wojas:2020:FSD

- [475] Włodzimierz Wojas, Jan Krupa, and Jarosław Bojarski. Familiarizing students with definition of Lebesgue outer measure using Mathematica: Some examples of calculation directly from its definition. *Mathematics in Computer Science*, 14(2):253–270, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00435-2.pdf>.

Prank:2020:ACE

- [476] Rein Prank. Analysing the “calculator effect” of different kinds of software for school arithmetic and algebra. *Mathematics in Computer Science*, 14

(2):271–279, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Braun:2020:NAV

- [477] Elishan Braun, Werner M. Seiler, and Matthias Seiß. On the numerical analysis and visualisation of implicit ordinary differential equations. *Mathematics in Computer Science*, 14(2):281–293, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Edneral:2020:NOS

- [478] Victor F. Edneral and Alexander G. Petrov. Nonlinear oscillations of a spring pendulum at the 1:1:2 resonance by normal form methods. *Mathematics in Computer Science*, 14(2):295–303, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Perminov:2020:IHD

- [479] A. S. Perminov and E. D. Kuznetsov. The implementation of Hori–Deprit method to the construction averaged planetary motion theory by means of computer algebra system Piranha. *Mathematics in Computer Science*, 14(2):305–316, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Bavula:2020:CSM

- [480] V. V. Bavula. Classification of simple modules of the Ore extension $K[X][Y; f \frac{d}{dX}]$. *Mathematics in Computer Science*, 14(2):317–325, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00414-7.pdf>.

Falkensteiner:2020:SFO

- [481] Sebastian Falkensteiner and J. Rafael Sendra. Solving first order autonomous algebraic ordinary differential equations by places. *Mathematics in Computer Science*, 14(2):327–337, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Bavula:2020:SCA

- [482] V. V. Bavula. Skew category algebras. *Mathematics in Computer Science*, 14(2):339–346, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-019-00415-6.pdf>.

Evgrafov:2020:DPE

- [483] Alexander Evgrafov and Alexander Levin. Dimension polynomials and the Einstein’s strength of some systems of quasi-linear algebraic difference equations. *Mathematics in Computer Science*, 14(2):347–360, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Levin:2020:MDD

- [484] Alexander Levin. Multivariate difference-differential dimension polynomials. *Mathematics in Computer Science*, 14(2):361–374, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Falcon:2020:UCD

- [485] Raúl M. Falcón. Using a CAS/DGS to analyze computationally the configuration of planar bar linkage mechanisms based on partial latin squares. *Mathematics in Computer Science*, 14

(2):375–389, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Hasek:2020:EDC

- [486] Roman Hasek. Exploration of dual curves using a dynamic geometry and computer algebra system. *Mathematics in Computer Science*, 14(2):391–398, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Takato:2020:UOS

- [487] Setsuo Takato and José A. Vallejo. Using Oshima splines to produce accurate numerical results and high quality graphical output. *Mathematics in Computer Science*, 14(2):399–413, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Bernal:2020:CAC

- [488] José Joaquín Bernal, Diana H. Bueno-Carreño, and Juan Jacobo Simón. Constructions of Abelian codes multiplying dimension of cyclic codes. *Mathematics in Computer Science*, 14(2):415–421, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Bouyuklieva:2020:BIC

- [489] Stefka Bouyuklieva, Radka Russeva, and Emine Karatash. Binary isodual codes having an automorphism of odd prime order. *Mathematics in Computer Science*, 14(2):423–429, June 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Labahn:2020:F

- [490] George Labahn, James H. Davenport, and Josef Urban. Foreword. *Mathematics in Computer Science*, 14(3):

531–532, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://link.
 springer.com/content/pdf/10.1007/
 s11786-020-00475-z.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00475-z.pdf).

Ekici:2020:MLC

- [491] Burak Ekici and Cezary Kaliszyk. Mac Lane’s comparison theorem for the Kleisli construction formalized in Coq. *Mathematics in Computer Science*, 14(3):533–549, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://link.
 springer.com/content/pdf/10.1007/
 s11786-020-00450-8.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00450-8.pdf).

Lewis:2020:IAI

- [492] Robert H. Lewis. Image analysis: Identification of objects via polynomial systems. *Mathematics in Computer Science*, 14(3):551–558, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://
 link.springer.com/content/pdf/10.
 1007/s11786-020-00451-7.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00451-7.pdf).

Bercic:2020:DFD

- [493] Katja Bercic and Janos Vidali. Discrete-ZOO: A fingerprint database of discrete objects. *Mathematics in Computer Science*, 14(3):559–575, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://
 link.springer.com/content/pdf/10.
 1007/s11786-020-00453-5.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00453-5.pdf).

Brysiewicz:2020:NSC

- [494] Taylor Brysiewicz. Numerical software to compute Newton polytopes and tropical membership. *Mathematics in Computer Science*, 14(3):577–589, September 2020. CODEN

???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://link.
 springer.com/content/pdf/10.1007/
 s11786-020-00454-4.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00454-4.pdf).

Alpuente:2020:ESE

- [495] M. Alpuente, D. Ballis, and J. Sapiña. Efficient safety enforcement for Maude programs via program specialization in the ÁTAME system. *Mathematics in Computer Science*, 14(3):591–606, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://link.
 springer.com/content/pdf/10.1007/
 s11786-020-00455-3.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00455-3.pdf).

Kim:2020:PSP

- [496] Seyeon Kim, Marco Pollanen, Michael G. Reynolds, and Wesley S. Burr. Problem solving as a path to comprehension. *Mathematics in Computer Science*, 14(3):607–621, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://link.
 springer.com/content/pdf/10.1007/
 s11786-020-00457-1.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00457-1.pdf).

Jiu:2020:CPZ

- [497] Lin Jiu and Christoph Koutschan. Calculation and properties of zonal polynomials. *Mathematics in Computer Science*, 14(3):623–640, September 2020. CODEN
 ???? ISSN 1661-8270 (print), 1661-
 8289 (electronic). URL [http://
 link.springer.com/content/pdf/10.
 1007/s11786-020-00458-0.pdf](http://link.springer.com/content/pdf/10.1007/s11786-020-00458-0.pdf).

DiCrescenzo:2020:ESD

- [498] Giovanni Di Crescenzo, Matluba Khodjaeva, Delaram Kahrobaei, and Vladimir Shpilrain. Efficient and secure delegation of exponentiation in general groups

to a single malicious server. *Mathematics in Computer Science*, 14(3):641–656, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00462-4.pdf>.

Jakubuv:2020:RWP

- [499] Jan Jakubuv and Cezary Kaliszyk. Relaxed weighted path order in theorem proving. *Mathematics in Computer Science*, 14(3):657–670, September 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00474-0.pdf>.

Chen:2020:FSF

- [500] Xiaoyu Chen, Hongbo Li, and Jing Yang. Foreword to the special focus on automated deduction in geometry. *Mathematics in Computer Science*, 14(4):671–672, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00488-8.pdf>.

Quaresma:2020:ADK

- [501] Pedro Quaresma. Automated deduction and knowledge management in geometry. *Mathematics in Computer Science*, 14(4):673–692, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00489-7.pdf>.

Todd:2020:SDG

- [502] Philip Todd. A symbolic dynamic geometry system using the analytical geometry method. *Mathematics in Computer*

Science, 14(4):693–726, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00490-0.pdf>.

Kovacs:2020:ADI

- [503] Zoltán Kovács. Automated detection of interesting properties in regular polygons. *Mathematics in Computer Science*, 14(4):727–755, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00491-z.pdf>.

Wang:2020:SA A

- [504] Dongming Wang, Bo Huang, and Xiaoyu Chen. On n -sectors of the angles of an arbitrary triangle. *Mathematics in Computer Science*, 14(4):757–773, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00492-y.pdf>.

Todd:2020:SAD

- [505] Philip Todd. A system for automated deduction in engineering mechanics. *Mathematics in Computer Science*, 14(4):775–790, December 2020. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00493-x.pdf>.

Loja:2021:FSF

- [506] Amélia Loja, Paulo Vasconcelos, Joaquim Infante Barbosa, and José Alberto Rodrigues. Foreword to the special focus on advances in symbolic and numeric computation III.

Mathematics in Computer Science, 15(1):1–4, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11786-020-00487-9.pdf>.

daRocha:2021:CPB

- [507] Zélia da Rocha. Common points between perturbed Chebyshev polynomials of second kind. *Mathematics in Computer Science*, 15(1):5–13, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Mesquita:2021:OPS

- [508] Teresa Augusta Mesquita. On a 2-orthogonal polynomial sequence via quadratic decomposition. *Mathematics in Computer Science*, 15(1):15–31, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Escobar:2021:INT

- [509] J. M. Escobar, J. Núñez-Valdés, and P. Pérez-Fernández. Introducing a new two-parameter invariant function for algebras. *Mathematics in Computer Science*, 15(1):33–44, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Matos:2021:EFI

- [510] José M. A. Matos, Maria João Rodrigues, and João Carrilho de Matos. Explicit formulae for integro-differential operational matrices. *Mathematics in Computer Science*, 15(1):45–61, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Conceicao:2021:SCA

- [511] Ana C. Conceição. Symbolic computation applied to the study of the kernel of special classes of paired singular integral operators. *Mathematics in Computer Science*, 15(1):63–90, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Ammi:2021:GSC

- [512] Moulay Rchid Sidi Ammi, Mostafa Tahiri, and Delfim F. M. Torres. Global stability of a Caputo fractional SIRS model with general incidence rate. *Mathematics in Computer Science*, 15(1):91–105, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Silva:2021:SSO

- [513] Cristiana J. Silva and Guillaume Cantin. Synchronization and self-organization in complex networks for a tuberculosis model. *Mathematics in Computer Science*, 15(1):107–120, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Mota:2021:EEB

- [514] P. R. Mota and P. B. Vasconcelos. Estimating the employment band of inaction with multiple breaks due to labor market reforms. *Mathematics in Computer Science*, 15(1):121–133, March 2021. CODEN ????. ISSN 1661-8270 (print), 1661-8289 (electronic).

Adak:2021:CVE

- [515] Dibyendu Adak and Sundararajan Natarajan. On the H^1 conforming virtual element method for time dependent

Stokes equation. *Mathematics in Computer Science*, 15(1):135–154, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

Piloto:2021:CST

- [516] Paulo A. G. Piloto, Carlos Balsa, Fernando Ribeiro, and Ronaldo Rigobello. Computational simulation of the thermal effects on composite slabs under fire conditions. *Mathematics in Computer Science*, 15(1):155–171, March 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic).

England:2021:FDA

- [517] Matthew England, Wolfram Koepf, and Thomas Sturm. Foreword, with a dedication to Andreas Weber. *Mathematics in Computer Science*, 15(2):173–175, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00476-y>.

Boulier:2021:SCT

- [518] François Boulier, François Lemaire, and Adrien Poteaux. A short contribution to the theory of regular chains. *Mathematics in Computer Science*, 15(2):177–188, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00477-x>.

Cano:2021:ARP

- [519] José Cano, Sebastian Falkensteiner, and J. Rafael Sendra. Algebraic, rational and Puiseux series solutions of systems of autonomous algebraic ODEs of dimension one. *Mathematics in*

Computer Science, 15(2):189–198, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00478-w>.

Grigoriev:2021:EER

- [520] Dima Grigoriev, Alexandru Iosif, and Andreas Weber. Efficiently and effectively recognizing toricity of steady state varieties. *Mathematics in Computer Science*, 15(2):199–232, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00479-9>.

Hashemi:2021:DUB

- [521] Amir Hashemi, Hossein Parnian, and Werner M. Seiler. Degree upper bounds for involutive bases. *Mathematics in Computer Science*, 15(2):233–254, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00480-2>.

Hu:2021:TDG

- [522] Youren Hu and Xiao-Shan Gao. Tropical differential Gröbner bases. *Mathematics in Computer Science*, 15(2):255–269, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00481-1>.

Imbach:2021:CCZ

- [523] Rémi Imbach, Marc Pouget, and Chee Yap. Clustering complex zeros of triangular systems of polynomials. *Math-*

ematics in Computer Science, 15(2): 271–292, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00482-0>.

Mohammadi:2021:SBA

- [524] Zahra Mohammadi, Gregory J. Reid, and S.-L. Tracy Huang. Symmetry-based algorithms for invertible mappings of polynomially nonlinear PDE to linear PDE. *Mathematics in Computer Science*, 15(2):293–316, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00483-z>.

Nabeshima:2021:TZD

- [525] Katsusuke Nabeshima and Shinichi Tajima. Testing zero-dimensionality of varieties at a point. *Mathematics in Computer Science*, 15(2):317–331, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00484-y>.

Seiler:2021:LBA

- [526] Werner M. Seiler, Matthias Seiß, and Thomas Sturm. A logic based approach to finding real singularities of implicit ordinary differential equations. *Mathematics in Computer Science*, 15(2):333–352, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00485-x>.

Tajima:2021:ACT

- [527] Shinichi Tajima and Katsusuke Nabeshima. An algorithm for computing torsion differential forms associated with an isolated hypersurface singularity. *Mathematics in Computer Science*, 15(2): 353–367, June 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00486-w>.

England:2021:FDV

- [528] Matthew England, François Boulier, and Thomas Sturm. Foreword, with a dedication to Vladimir Gerdt. *Mathematics in Computer Science*, 15(3):369–371, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00509-0>.

Brehard:2021:SNV

- [529] Florent Bréhard. A symbolic-numeric validation algorithm for linear ODEs with Newton–Picard method. *Mathematics in Computer Science*, 15(3):373–405, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00510-7>.

Gutnik:2021:SCE

- [530] Sergey A. Gutnik and Vasily A. Sarychev. Symbolic computations of the equilibrium orientations of a system of two connected bodies moving on a circular orbit around the Earth. *Mathematics in Computer Science*, 15(3):407–417, September 2021. CODEN ???? ISSN 1661-

8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00511-6>.

Hashemi:2021:IGA

- [531] Amir Hashemi, Thomas Izgin, and Werner M. Seiler. An involutive GVW algorithm and the computation of Pommet bases. *Mathematics in Computer Science*, 15(3):419–452, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00512-5>.

Hashemi:2021:RGI

- [532] Amir Hashemi, Matthias Orth, and Werner M. Seiler. Relative Gröbner and involutive bases for ideals in quotient rings. *Mathematics in Computer Science*, 15(3):453–482, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00513-4>.

Koutschan:2021:CTM

- [533] Christoph Koutschan and Elaine Wong. Creative telescoping on multiple sums. *Mathematics in Computer Science*, 15(3):483–498, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00514-3>.

Kruff:2021:ARB

- [534] Niclas Kruff, Christoph Lüders, and Sebastian Walcher. Algorithmic reduction of biological networks with multiple time scales. *Mathematics in Com-*

puter Science, 15(3):499–534, September 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00515-2>.

Ferras:2021:HOM

- [535] Luís L. Ferrás, Neville Ford, and Magda Rebelo. High-order methods for systems of fractional ordinary differential equations and their application to time-fractional diffusion equations. *Mathematics in Computer Science*, 15(4):535–551, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-019-00448-x>.

Beltrametti:2021:GHT

- [536] M. C. Beltrametti, C. Campi, and M. Torrente. Geometry of the Hough transforms with applications to synthetic data. *Mathematics in Computer Science*, 15(4):553–575, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00470-4>.

Schneider:2021:AMP

- [537] Carsten Schneider. The absent-minded passengers problem: a motivating challenge solved by computer algebra. *Mathematics in Computer Science*, 15(4):577–588, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00494-w>.

Middeke:2021:CFF

- [538] Johannes Middeke, David J. Jeffrey, and Christoph Koutschan. Common factors in fraction-free matrix decompositions. *Mathematics in Computer Science*, 15(4):589–608, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00495-9>.

Berkemer:2021:CPA

- [539] Sarah J. Berkemer, Christian Höner zu Siederdisen, and Peter F. Stadler. Compositional properties of alignments. *Mathematics in Computer Science*, 15(4):609–630, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00496-8>.

Botana:2021:MG

- [540] Francisco Botana, Zoltán Kovács, and Tomás Recio. A mechanical geometer. *Mathematics in Computer Science*, 15(4):631–641, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-020-00497-7>.

Ortegaray:2021:HKA

- [541] Andrew Ortegaray, Robert C. Berwick, and Matilde Marcolli. Heat kernel analysis of syntactic structures. *Mathematics in Computer Science*, 15(4):643–660, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00498-0>.

[com/article/10.1007/s11786-021-00498-0](https://link.springer.com/article/10.1007/s11786-021-00498-0).

Solin:2021:SPI

- [542] Pavel Solin. Self-paced, instructor-assisted approach to teaching linear algebra. *Mathematics in Computer Science*, 15(4):661–687, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00499-z>.

Roanes-Lozano:2021:UFE

- [543] Eugenio Roanes-Lozano and Carmen Solano-Macías. Using fractals and *turtle geometry* to visually explain the spread of a virus to kids: a STEM multi-target activity. *Mathematics in Computer Science*, 15(4):689–699, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00500-9>.

Mansour:2021:CLP

- [544] Toufik Mansour, José L. Ramírez, and Diana A. Toquica. Counting lattice points on bargraphs of Catalan words. *Mathematics in Computer Science*, 15(4):701–713, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00501-8>.

Kacker:2021:FEC

- [545] Raghu N. Kacker, D. Richard Kuhn, and Dimitris E. Simos. Factorials experiments, covering arrays, and combinatorial testing. *Mathematics in Com-*

puter Science, 15(4):715–739, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00502-7>. See correction [546].

Kacker:2021:CFE

- [546] Raghu N. Kacker, D. Richard Kuhn, and Dimitris E. Simos. Correction to: Factorials experiments, covering arrays, and combinatorial testing. *Mathematics in Computer Science*, 15(4):741, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00516-1>. See [545].

Jia:2021:LEK

- [547] Nan Jia, Yaping Mao, and Eddie Cheng. Linear k -arboricity of caylay graphs on Abelian groups with given degree. *Mathematics in Computer Science*, 15(4):743–755, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00503-6>.

Dana-Picard:2021:EOT

- [548] Thierry Dana-Picard. Envelopes and offsets of two algebraic plane curves: Exploration of their similarities and differences. *Mathematics in Computer Science*, 15(4):757–774, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00504-5>.

Aggarwal:2021:XBF

- [549] Anurag Aggarwal, Zoltán Kovács, and Jonathan Wolfe. XaoS 4.0 and beyond: Fractals in mathematics education. *Mathematics in Computer Science*, 15(4):775–788, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00505-4>.

Kovacs:2021:TAC

- [550] Zoltán Kovács. Two almost-circles, and two real ones. *Mathematics in Computer Science*, 15(4):789–801, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00506-3>.

Shu:2021:PIE

- [551] Kevin Shu, Andrew Ortegaray, and Matilde Marcolli. Phylogenetics of Indo-European language families via an algebro-geometric analysis of their syntactic structures. *Mathematics in Computer Science*, 15(4):803–857, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00507-2>.

Adamou:2021:CTV

- [552] Ibrahim Adamou and Bernard Mourrain. Computing the topology of Voronoi diagrams of parallel half-lines. *Mathematics in Computer Science*, 15(4):859–876, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00508-1>.

com/article/10.1007/s11786-021-00508-1.

Vlachakis:2021:MMM

- [553] Dimitrios Vlachakis and Panayiotis Vlamos. Mathematical multidimensional modelling and structural intelligence pipelines provide insights for the designing of highly specific AntiSARS-CoV2 agents. *Mathematics in Computer Science*, 15(4):877–888, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00517-0>.

Mansour:2021:CCC

- [554] Toufik Mansour, Reza Rastegar, and Armand Sh. Shabani. On column-convex and convex Carlitz polyominoes. *Mathematics in Computer Science*, 15(4):889–898, December 2021. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00518-z>.

Archibald:2022:PCC

- [555] Margaret Archibald, Aubrey Blecher, and Arnold Knopfmacher. Protected cells in compositions. *Mathematics in Computer Science*, 16(1):??, March 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00519-y>.

Port:2022:TAS

- [556] Alexander Port, Taelin Karidi, and Matilde Marcolli. Topological analysis of syntactic structures. *Mathematics in Computer Science*, 16(1):??, March

2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-021-00520-5>.

Spahn:2022:ESG

- [557] George Spahn. Enumerating solutions to grid-based puzzles with a fixed number of rows. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00530-x>.

Laurian:2022:FBW

- [558] Azebaze Guimagang Laurian, Fouotsa Emmanuel, El Mrabet Nadia, and Pecha Njiahouo Aminatou. Faster beta Weil pairing on BLS pairing friendly curves with odd embedding degree. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00531-w>.

Ishihara:2022:ELP

- [559] Yuki Ishihara. Efficient localization at a prime ideal without producing unnecessary primary components. *Mathematics in Computer Science*, 16(2–3):??, September 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00537-4>.

Gutnik:2022:CAM

- [560] Sergey A. Gutnik and Vasily A. Sarychev. Computer algebra methods for searching the stationary motions of the connected bodies system moving in gravitational field. *Mathematics in Computer Science*, 16(2-3):??, September 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00535-6>.

England:2022:F

- [561] Matthew England, François Boulier, Timur Sadykov, and Thomas Sturm. Foreword. *Mathematics in Computer Science*, 16(2-3):??, September 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00533-8>.

Hofstadler:2022:CEC

- [562] Clemens Hofstadler, Clemens G. Raab, and Georg Regensburger. Computing elements of certain form in ideals to prove properties of operators. *Mathematics in Computer Science*, 16(2-3):??, September 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00536-5>.

Chen:2022:FMP

- [563] Tian Chen and Michael Monagan. Factoring multivariate polynomials represented by black boxes: a Maple + C implementation. *Mathematics in Computer Science*, 16(2-3):??, September 2022. CODEN ????? ISSN 1661-

8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00534-7>.

Karpov:2022:DLA

- [564] Peter Karpov. Design of low-artifact interpolation kernels by means of computer algebra. *Mathematics in Computer Science*, 16(2-3):??, September 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00538-3>.

Levin:2022:NTD

- [565] Alexander Levin. A new type of difference dimension polynomials. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00540-9>.

Greuel:2022:USS

- [566] Gert-Martin Greuel, Gerhard Pfister, and Hans Schönemann. Using semi-continuity for standard bases computations. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00539-2>.

Wester:2022:MVG

- [567] Michael J. Wester. Memories of Vladimir Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic).

URL <https://link.springer.com/article/10.1007/s11786-022-00541-8>.

Pommaret:2022:HMS

- [568] J.-F. Pommaret. How many structure constants do exist in Riemannian geometry? *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00546-3>.

Kotsireas:2022:PRP

- [569] Ilias S. Kotsireas. Personal recollections of Prof. Vladimir P. Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00545-4>.

Wang:2022:SNR

- [570] Dongming Wang. SMS Nanning and RWTH Aachen: In memory of Vladimir Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00543-6>.

Seiler:2022:YVG

- [571] Werner M. Seiler. 30 years with Vladimir Gerdt. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/>

[article/10.1007/s11786-022-00544-5](https://link.springer.com/article/10.1007/s11786-022-00544-5).

Buchberger:2022:VGC

- [572] Bruno Buchberger. Vladimir Gerdt: a computer algebra enthusiast. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00542-7>.

Robertz:2022:F

- [573] Daniel Robertz and Werner M. Seiler. Foreword. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00550-7>.

Ceria:2022:NGJ

- [574] Michela Ceria and Ferdinando Mora. De Nugis Groebnerialium 7: Janet, Gerdt, Tamari. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00549-0>.

Ceria:2022:ABC

- [575] Michela Ceria. Applications of bar code to involutive divisions and a “Greedy” algorithm for complete sets. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00548-1>.

Brown:2022:CAR

- [576] Christopher W. Brown, Zoltán Kovács, Tomás Recio, Róbert Vajda, and M. Pilar Vélez. Is computer algebra ready for conjecturing and proving geometric inequalities in the classroom? *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00532-9>.

Beuchler:2022:RQH

- [577] Sven Beuchler, Tim Haubold, and Veronika Pillwein. Recurrences for quadrilateral high-order finite elements. *Mathematics in Computer Science*, 16(4):??, December 2022. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00547-2>.

Roanes-Lozano:2023:CBM

- [578] Eugenio Roanes-Lozano. Can I bring my calculator to the exam? Some reflections on the abstraction level of computer algebra systems. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00551-6>.

Crnkovic:2023:CTE

- [579] Dean Crnković, Vedrana Mikulić Crnković, and Andrea Svob. Construction of transitive q -analogs of designs. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (elec-

tronic). URL <https://link.springer.com/article/10.1007/s11786-022-00554-3>.

Dana-Picard:2023:AE

- [580] Thierry Dana-Picard and Zoltán Kovács. Automated exploration of envelopes and offsets with networking of technologies. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00555-2>.

Chien:2023:TTD

- [581] Bui Van Chien, Gérard H. E. Duchamp, Ngo Quoc Hoan, Hoang Ngoc Minh Vincel, and Nguyen Dinh Vu. Towards a theory of domains for harmonic functions and its symbolic counterpart. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00552-5>.

Stoichev:2023:UPP

- [582] Stoicho D. Stoichev and Mustafa Gezek. Unitals in projective planes of order 25. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00556-9>.

Tajima:2023:CHM

- [583] Shinichi Tajima, Katsusuke Nabeshima, Katsuyoshi Ohara, and Yoko Umeta. Computing holonomic D -modules associated to a family of non-isolated hypersurface singularities via comprehensive

Gröbner systems of PBW algebra. *Mathematics in Computer Science*, 17(1):??, March 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-022-00553-4>.

Bujnowski:2023:ETP

- [584] Sławomir Bujnowski, Beata Marciniak, Olutayo Oyeyemi Oyerinde, Zbigniew Lutowski, Adam Flizikowski, and Sebastián García Galan. Equalising the transmission properties of graph-modelled networks by introducing the control of the resources used to transmit information. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00559-6>.

Roanes-Lozano:2023:SRA

- [585] Eugenio Roanes-Lozano and Carmen Solano-Macías. Some reflections about the success and bibliographic impact of the dynamic geometry system *GeoGebra*. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00564-9>.

Flizikowski:2023:SAN

- [586] Adam Flizikowski, Tomasz Marciniak, Tadeusz A. Wysocki, and Olutayo Oyerinde. Selected aspects of non orthogonal multiple access for future wireless communications. *Mathematics in Computer Science*, 17(2):??, June

2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00561-y>.

Srivastava:2023:HLB

- [587] Snehil Srivastava and Panchatcharam Mariappan. Hyperbolic lattice Boltzmann method and discrete Boltzmann method for solid-liquid phase change problem. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00563-w>.

Laszlo:2023:CSB

- [588] Michael Laszlo and Sumitra Mukherjee. Counting star-battle configurations. *Mathematics in Computer Science*, 17(2):??, June 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00558-7>.

Santoprete:2023:SPC

- [589] Manuele Santoprete. Some polynomial conditions for cyclic quadrilaterals, tilted kites and other quadrilaterals. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00574-7>.

Kudo:2023:CES

- [590] Momonari Kudo, Tasuku Nakagawa, and Tsuyoshi Takagi. Correction to: Ef-

efficient search for superspecial hyperelliptic curves of genus four with automorphism group containing C_6 . *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00573-8>. See [592].

England:2023:F

- [591] Matthew England, François Boulier, Timur Sadykov, and Thomas Sturm. Foreword. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00565-8>.

Kudo:2023:ESS

- [592] Momonari Kudo, Tasuku Nakagawa, and Tsuyoshi Takagi. Efficient search for superspecial hyperelliptic curves of genus four with automorphism group containing C_6 . *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00571-w>. See correction [590].

Baldemir:2023:CMD

- [593] Fadime Baldemir and Mesut Sahin. Calculating the minimum distance of a toric code via algebraic algorithms. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/>

[article/10.1007/s11786-023-00566-7](https://link.springer.com/article/10.1007/s11786-023-00566-7).

Edneral:2023:ICP

- [594] Victor F. Edneral. Integrable cases of the polynomial Liénard-type equation with resonance in the linear part. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00567-6>.

Gusev:2023:HIP

- [595] Alexander A. Gusev, Galmandakh Chuluunbaatar, Ochbadrakh Chuluunbaatar, Sergue I. Vinitzky, Yuri A. Blinkov, Algirdas Deveikis, Peter O. Hess, and Luong Le Hai. Hermite interpolation polynomials on parallelepipeds and FEM applications. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00568-5>.

Gutnik:2023:IDT

- [596] Sergey A. Gutnik and Vasily A. Sarychev. Investigation of the dynamics of two connected bodies in the plane of a circular orbit using computer algebra methods. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00569-4>.

Krasikov:2023:SCA

- [597] Vitaly A. Krasikov. A survey on computational aspects of polynomial amoebas. *Mathematics in Computer Science*, 17(3-4):??, December 2023. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00570-x>.

Gakkhar:2024:SSG

- [598] Sitanshu Gakkhar and Matilde Marcolli. Syntactic structures and the general Markov models. *Mathematics in Computer Science*, 18(1):??, March 2024. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00575-6>.

Checa:2024:MSS

- [599] Carles Checa and Ioannis Z. Emiris. Mixed subdivisions suitable for the greedy Canny–Emiris formula. *Mathematics in Computer Science*, 18(1):??, March 2024. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00577-y>.

Dana-Picard:2024:ISC

- [600] Thierry Dana-Picard. Inflexions of spiric curves: a tale of two tori. *Mathematics in Computer Science*, 18(1):??, March 2024. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00578-x>.

Baril:2024:LSD

- [601] Jean-Luc Baril, Javier F. González, and José L. Ramírez. Last symbol distribution in pattern avoiding Catalan words. *Mathematics in Computer Science*, 18(1):??, March 2024. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-023-00576-5>.

Lima:2024:LRM

- [602] Nilson J. Lima, José A. O. Matos, and Paulo B. Vasconcelos. A low-rank matrix approach to compute polynomial approximations of smooth two-dimensional functions. *Mathematics in Computer Science*, 18(2):??, July 2024. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00581-2>.

Lima:2024:SPD

- [603] Nilson J. Lima, José M. A. Matos, and Paulo B. Vasconcelos. Solving partial differential problems with Tau toolbox. *Mathematics in Computer Science*, 18(2):??, July 2024. CODEN ????? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00580-3>.

Mesquita:2024:GFO

- [604] Teresa Augusta Mesquita. On a general family of 2-orthogonal polynomial eigenfunctions of a third order differential equation via symbolic computation. *Mathematics in Computer Science*, 18(2):??, July

2024. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00583-0>.

Mitic:2024:CFE

- [605] Peter Mitic. A credibility framework for extreme value-at-risk. *Mathematics in Computer Science*, 18(2):??, July 2024. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00579-w>.

Henneaux:2024:GMS

- [606] David Henneaux, Pierre Schrooyen, Philippe Chatelain, and Thierry Magin. A general methodology for symbolically generating manufactured solutions satisfying prescribed conditions: Application to two-phase flows equations. *Mathematics in Computer Science*, 18(2):??, July 2024. CODEN ???? ISSN 1661-8270 (print), 1661-8289 (electronic). URL <https://link.springer.com/article/10.1007/s11786-024-00584-z>.