

A Bibliography of Papers in *Lecture Notes in Computer Science* (2010)

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: <http://www.math.utah.edu/~beebe/>

01 February 2020
Version 1.05

Title word cross-reference

L [10].
1.0 [45]. **10th** [66]. **11th** [63]. **12th** [65].
16th [58].
2 [24]. **2.5** [36]. **29th** [61].
30th [67].
5th [59].
8.8/11.2 [62].
9th [62, 64].

Accurate [22]. **advanced** [62]. **Advances** [58, 61, 67]. **Africa** [60]. **Africacrypt** [60].
Algebra [15, 12, 37, 41, 24]. **Algebraic** [20].
Algorithm [38, 34, 39]. **Algorithms** [40].
Allocation [16]. **Alternative** [4]. **America** [57]. **Analysis** [35]. **annual** [61, 67].
application [58, 62]. **applications** [61].
April [62]. **Arbitrary** [38]. **Arithmetic** [19, 54, 22]. **Asiacrypt** [58]. **August** [57, 67]. **Automated** [41, 30].
Barbara [67]. **Based** [23, 33]. **Bases** [42, 10, 17]. **Beijing** [59]. **Beyond** [15].
Binomial [38]. **Bivariate** [21]. **Black** [11].
Black-Box [11]. **Blocks** [16]. **Box** [11].
Branch [34]. **Building** [27, 16].
C [15, 53, 56, 48]. **C-XSC** [56]. **CA** [66, 67].

CANS [64]. **card** [62]. **CARDIS** [62].
Certified [19, 52]. **CGAL** [20].
Characteristic [38]. **China** [59]. **Class** [53].
Classical [11]. **CoCoALib** [15]. **Codes** [5].
Coherent [14]. **Cohomology** [9].
Communicating [56]. **Commutative** [15].
Compilation [16]. **Complex** [53].
Computation [14, 24]. **Computational**
 [12, 1, 35]. **Computations** [15, 20, 52, 23].
Computer [37]. **Computing**
 [10, 17, 19, 3, 13, 39, 40, 22, 8]. **Conference**
 [62, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67].
Configurations [14]. **Confluence** [41].
Congress [69]. **Conjecture** [28].
Constraints [46]. **Construction** [23, 32].
Constructive [11]. **Controlled** [19]. **Core**
 [24]. **CoStLy** [53]. **Create** [4]. **Crypto** [67].
cryptographer [66]. **cryptographic** [61].
Cryptography [68]. **cryptology**
 [57, 58, 59, 60, 61, 63, 65, 66, 67, 64]. **CT**
 [66]. **CT-RSA** [66].

DAG [23]. **Dags** [23]. **Darmstadt** [68].
Data [35]. **DDMF** [7]. **December**
 [58, 59, 63, 64, 65]. **Decision** [23].
Decomposition [40]. **Deferring** [23].
Definite [39]. **Deformations** [31]. **Design**
 [24]. **Desingularization** [38].
Development [5]. **Dictionary** [7].
Differential [39, 41]. **Discrete** [1, 35].
Distance [34]. **Do** [27]. **Dynamic** [7].

Efficient [55, 3]. **Engine** [50].
Enumerating [44]. **Environment** [5].
Equations [39]. **Euler** [26]. **Eurocrypt**
 [61]. **Evaluation** [55, 30]. **Exact**
 [20, 23, 24]. **Exploiting** [2, 48]. **Expression**
 [23]. **Expressions** [56].

Fans [47]. **Fast** [18]. **FGb** [17]. **Filters** [33].
Finitely [10]. **first** [57]. **Fixed** [19].
Fixed-Precision [19]. **Floating** [22].
Floating-Point [22]. **Floats** [23]. **Formal**
 [29]. **Formula** [26]. **Founding** [16].

Framework [35]. **Francisco** [66]. **Free** [4].
Function [13]. **Functional** [56]. **Functions**
 [7, 6, 53].

Galois [44]. **GAP** [9, 12, 14]. **Generating**
 [51]. **Geometric** [19, 20, 3]. **Geometry**
 [1, 37, 34, 32, 24]. **Germany** [62, 68]. **GNU**
 [8]. **Gröbner** [42, 10, 17]. **Groups**
 [11, 10, 13].

Harmonic [32]. **High** [12].
High-Performance [12]. **HOL** [25].
Hyderabad [63].

ICISC [65]. **ICMS** [69]. **Ideals** [40]. **IFIP**
 [62]. **Image** [33]. **Implementation** [42, 34].
Improvement [13]. **Inclusion** [53]. **India**
 [63]. **Indocrypt** [63]. **Infinite** [41].
information [57, 58, 59, 65].
Inhomogeneous [39]. **INSCRYPT** [59].
Integer [49]. **Integrals** [39]. **Integro** [41].
Integro-Differential [41]. **International**
 [69, 62, 68, 57, 58, 59, 60, 61, 63, 64, 65].
Interval [54]. **Introducing** [25].
Introduction [36, 18]. **isl** [49].

Japan [69]. **jeep** [34]. **June** [61].

Kōbe [69]. **Kepler** [28]. **Korea** [65]. **Kuala**
 [64].

Large [2, 52, 55]. **Latin** [57]. **Latincrypt**
 [57]. **Lattice** [51]. **Libraries** [54]. **Library**
 [15, 27, 17, 18, 53, 30, 49, 24, 33]. **Like** [27].
LinBox [16]. **Linear** [28]. **Local** [31].
Lumpur [64].

Magma [43, 4]. **Malaysia** [64]. **Maple** [4].
March [66]. **Mathemagix** [52].
Mathematica [4, 56]. **Mathematical**
 [27, 7, 4, 69, 30, 33, 69]. **MATLAB** [4].
May [60, 61, 68]. **MD** [34]. **MD-jeep** [34].
Mechanized [27]. **Membership** [11].
Meshes [31]. **Methods** [37]. **Mexico** [57].

Mizar [26, 30]. Model [49]. Monaco [61]. Morse [35]. MPFR [8].

network [64]. Normaliz [36]. Normalizers [13]. Number [43, 18]. Numeric [52, 24]. Numerical [5]. NZMATH [45].

OpenGL [33]. OpenGL-Based [33]. Operadic [42]. Optimization [50]. Orbifolds [9].

Package [14]. papers [59, 65]. Parallel [16]. Parametrized [41]. Passau [62]. Performance [12]. Permutation [13]. Perturbation [19]. Pick [29]. Planar [31]. Point [22]. Polycyclic [10]. Polyhedral [47, 48, 49]. Polyhedron [26]. Polynomial [40]. Polynomials [55, 21]. Polytopes [51]. Post [68]. Post-Quantum [68]. PQCrypto [68]. Precision [19]. Prescribed [32]. Presented [10]. Primary [40]. Problems [2, 34]. Proceedings [58, 61, 63, 64, 66, 67, 68, 57, 60, 69, 62]. Programming [2, 52]. Programs [28]. Progress [57, 60, 63]. Project [4]. Proof [29, 41]. Proofs [27]. Proving [30]. Prune [34]. Puebla [57].

Quad [31]. Quad-Meshes [31]. Quadratic [46]. Quantum [68]. Quotients [10].

Redundant [46]. Reformulation [50]. Reformulation-Optimization [50]. Reliable [3, 22, 8]. Removing [46]. Representations [44]. research [62]. revised [59, 65]. Rewrite [41]. RSA [66].

Sage [44, 4]. San [66]. Santa [67]. Scale [2, 52]. Scope [16]. security [57, 58, 59, 64, 65]. selected [59, 65]. Semidefinite [2]. Seoul [65]. Separate [16]. September [69]. Set [49]. Simplicial [9]. Singapore [58]. Smart [62]. Smooth [9, 51]. Software [6, 4, 50, 69]. Sollya [5].

Solving [21]. South [60]. Sparsity [2]. Special [6]. Speeds [23]. Speeds-Up [23]. Standardized [54]. Stellenbosch [60]. Storing [23]. Structured [2]. Sums [23]. Surfaces [32]. Symbolic [52]. Symmetric [47]. Symmetries [48]. System [41]. Systems [21].

TADD [35]. techniques [61]. Testing [11]. Theorem [29, 30]. Theory [43, 18, 35, 58, 61]. Third [68, 60, 69]. Tool [43]. Tools [48]. Topics [66]. track [66]. Traversing [47]. Tropical [37].

Unifying [4]. USA [66, 67]. Used [54]. Using [35].

Validated [6]. Varieties [38]. via [10]. Viable [4].

WG [62]. Workshop [68].

XSC [56].

Zero [25].

References

Hales:2010:CDG

- [1] Thomas C. Hales. Computational discrete geometry. *Lecture Notes in Computer Science*, 6327:1–3, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer.com/content/pdf/bfm:978-3-642-15582-6/1.pdf>; http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_1.pdf.

Kojima:2010:ESS

- [2] Masakazu Kojima. Exploiting structured sparsity in large scale semidefinite programming problems. *Lecture Notes in*

Computer Science, 6327:4–9, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_2.pdf.

Mehlhorn:2010:REG

- [3] Kurt Mehlhorn. Reliable and efficient geometric computing. *Lecture Notes in Computer Science*, 6327:10–11, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_3.pdf.

Erocal:2010:SPU

- [4] Burçin Eröcal and William Stein. The Sage Project: Unifying free mathematical software to create a viable alternative to Magma, Maple, Mathematica and MATLAB. *Lecture Notes in Computer Science*, 6327:12–27, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_4.pdf.

Chevillard:2010:SED

- [5] Sylvain Chevillard, Mioara Joldeş, and Christoph Lauter. Sollya: an environment for the development of numerical codes. *Lecture Notes in Computer Science*, 6327:28–31, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_5.pdf.

Cuyt:2010:VSF

- [6] Annie Cuyt, Franky Backeljauw, Stefan Becuwe, and Joris Van Deun. Validated special functions software.

Lecture Notes in Computer Science, 6327:32–34, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_6.pdf.

Benoit:2010:DDM

- [7] Alexandre Benoit, Frédéric Chyzak, Alexis Darrasse, Stefan Gerhold, and Marc Mezzarobba. The Dynamic Dictionary of Mathematical Functions (DDMF). *Lecture Notes in Computer Science*, 6327:35–41, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_7.pdf.

Zimmermann:2010:RCG

- [8] Paul Zimmermann. Reliable computing with GNU MPFR. *Lecture Notes in Computer Science*, 6327:42–45, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_8.pdf.

Barakat:2010:SCS

- [9] Mohamed Barakat and Simon Görtzen. Simplicial cohomology of smooth orbifolds in GAP. *Lecture Notes in Computer Science*, 6327:46–49, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_9.pdf.

Eick:2010:CPQ

- [10] Bettina Eick and Max Horn. Computing polycyclic quotients of finitely (L -)presented groups via Gröbner bases. *Lecture Notes in Computer Science*, 6327:50–

53, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_10.pdf.

Ambrose:2010:CMT

- [11] Sophie Ambrose, Scott H. Murray, Cheryl E. Praeger, and Csaba Schneider. Constructive membership testing in black-box classical groups. *Lecture Notes in Computer Science*, 6327:54–57, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_11.pdf.

Behrends:2010:THP

- [12] Reimer Behrends, Alexander Konovalov, Steve Linton, Frank Lübeck, and Max Neunhöffer. Towards high-performance computational algebra with GAP. *Lecture Notes in Computer Science*, 6327:58–61, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_12.pdf.

Miyamoto:2010:IFC

- [13] Izumi Miyamoto. An improvement of a function computing normalizers for permutation groups. *Lecture Notes in Computer Science*, 6327:62–68, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_13.pdf.

Pasechnik:2010:GPC

- [14] Dmitrii V. Pasechnik and Keshav Kini. A GAP package for computation with

coherent configurations. *Lecture Notes in Computer Science*, 6327:69–72, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_14.pdf.

Abbott:2010:CCL

- [15] John Abbott and Anna M. Bigatti. CoCoALib: a C++ library for computations in commutative algebra ... and beyond. *Lecture Notes in Computer Science*, 6327:73–76, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_15.pdf.

Dumas:2010:LFS

- [16] Jean-Guillaume Dumas, Thierry Gautier, Clément Pernet, and B. David Saunders. LinBox founding scope allocation, parallel building blocks, and separate compilation. *Lecture Notes in Computer Science*, 6327:77–83, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_16.pdf.

Faugere:2010:FLC

- [17] Jean-Charles Faugère. FGB: a library for computing Gröbner bases. *Lecture Notes in Computer Science*, 6327:84–87, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_17.pdf.

Hart:2010:FLN

- [18] William B. Hart. Fast library for number theory: an introduction. *Lecture Notes in Computer Science*, 6327:88–91, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_18.pdf.

Halperin:2010:CPC

- [19] Dan Halperin. Controlled perturbation for certified geometric computing with fixed-precision arithmetic. *Lecture Notes in Computer Science*, 6327:92–95, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_19.pdf.

Karavelas:2010:EGA

- [20] Menelaos I. Karavelas. Exact geometric and algebraic computations in CGAL. *Lecture Notes in Computer Science*, 6327:96–99, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_20.pdf.

Rouillier:2010:SSB

- [21] Fabrice Rouillier. On solving systems of bivariate polynomials. *Lecture Notes in Computer Science*, 6327:100–104, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_21.pdf.

Rump:2010:ARC

- [22] Siegfried M. Rump. Accurate and reliable computing in floating-point arithmetic. *Lecture Notes in Computer Science*, 6327:105–108, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_22.pdf.

Morig:2010:DDC

- [23] Marc Mörig. Deferring DAG construction by storing sums of floats speeds-up exact decision computations based on expression dags. *Lecture Notes in Computer Science*, 6327:109–120, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_23.pdf.

Yu:2010:DCL

- [24] Jihun Yu, Chee Yap, Zilin Du, Sylvain Pion, and Hervé Brönnimann. The design of Core 2: a library for exact numeric computation in geometry and algebra. *Lecture Notes in Computer Science*, 6327:121–141, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_24.pdf.

Adams:2010:IHZ

- [25] Mark Adams. Introducing HOL Zero. *Lecture Notes in Computer Science*, 6327:142–143, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_25.pdf.

Alama:2010:EPF

- [26] Jesse Alama. Euler’s polyhedron formula in Mizar. *Lecture Notes in Computer Science*, 6327:144–147, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_26.pdf.

Arthan:2010:BLM

- [27] R. D. Arthan. Building a library of mechanized mathematical proofs: Why do it? and what is it like to do? *Lecture Notes in Computer Science*, 6327:148, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_27.pdf.

Hales:2010:LPK

- [28] Thomas C. Hales. Linear programs for the Kepler conjecture. *Lecture Notes in Computer Science*, 6327:149–151, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_28.pdf.

Harrison:2010:FPP

- [29] John Harrison. A formal proof of Pick’s theorem. *Lecture Notes in Computer Science*, 6327:152–154, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_29.pdf.

Urban:2010:EAT

- [30] Josef Urban, Krystof Hoder, and Andrei Voronkov. Evaluation of automated

theorem proving on the Mizar mathematical library. *Lecture Notes in Computer Science*, 6327:155–166, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_30.pdf.

Hoffmann:2010:LDP

- [31] Tim Hoffmann. On local deformations of planar quad-meshes. *Lecture Notes in Computer Science*, 6327:167–169, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_31.pdf.

Weber:2010:CHS

- [32] Matthias Weber. Construction of harmonic surfaces with prescribed geometry. *Lecture Notes in Computer Science*, 6327:170–173, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_32.pdf.

vonGagern:2010:LOB

- [33] Martin von Gagern and Christian Mercat. A library of OpenGL-based mathematical image filters. *Lecture Notes in Computer Science*, 6327:174–185, 2010. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_33.pdf.

Mucherino:2010:MJI

- [34] Antonio Mucherino, Leo Liberti, and Carlile Lavor. MD-jeep: an implementation of a branch and prune algorithm for distance geometry problems. *Lecture*

Notes in Computer Science, 6327:186–197, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_34.pdf.

Reininghaus:2010:TCF

- [35] Jan Reininghaus, David Günther, Ingrid Hotz, Steffen Prohaska, and Hans-Christian Hege. TADD: a computational framework for data analysis using discrete Morse theory. *Lecture Notes in Computer Science*, 6327:198–208, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_35.pdf.

Bruns:2010:IN

- [36] Winfried Bruns, Bogdan Ichim, and Christof Söger. Introduction to Normaliz 2.5. *Lecture Notes in Computer Science*, 6327:209–212, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_36.pdf.

Markwig:2010:CAM

- [37] Thomas Markwig. Computer algebra methods in tropical geometry. *Lecture Notes in Computer Science*, 6327:213–216, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_37.pdf.

Blanco:2010:NDA

- [38] Rocío Blanco. A new desingularization algorithm for binomial varieties in arbitrary

characteristic. *Lecture Notes in Computer Science*, 6327:217–220, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_38.pdf.

Nakayama:2010:ACI

- [39] Hiromasa Nakayama and Kenta Nishiyama. An algorithm of computing inhomogeneous differential equations for definite integrals. *Lecture Notes in Computer Science*, 6327:221–232, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_39.pdf.

Noro:2010:NAC

- [40] Masayuki Noro. New algorithms for computing primary decomposition of polynomial ideals. *Lecture Notes in Computer Science*, 6327:233–244, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_40.pdf.

Tec:2010:ACP

- [41] Loredana Tec, Georg Regensburger, Markus Rosenkranz, and Bruno Buchberger. An automated confluence proof for an infinite rewrite system parametrized over an integro-differential algebra. *Lecture Notes in Computer Science*, 6327:245–248, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_41.pdf.

Dotsenko:2010:OGB

- [42] Vladimir Dotsenko and Mikael Vejdemo-Johansson. Operadic Gröbner bases: an implementation. *Lecture Notes in Computer Science*, 6327:249–252, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_42.pdf.

Cannon:2010:MTN

- [43] John Cannon, Steve Donnelly, Claus Fieker, and Mark Watkins. Magma — a tool for number theory. *Lecture Notes in Computer Science*, 6327:253–255, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_43.pdf.

Citro:2010:EGR

- [44] Craig Citro and Alexandru Ghitza. Enumerating Galois representations in Sage. *Lecture Notes in Computer Science*, 6327:256–259, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_44.pdf.

Tanaka:2010:N

- [45] Satoru Tanaka, Naoki Ogura, Ken Nakamura, Tetsushi Matsui, and Shigenori Uchiyama. NZMATH 1.0. *Lecture Notes in Computer Science*, 6327:260–269, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_45.pdf.

Adjiaşvili:2010:RRQ

- [46] David Adjiaşvili, Michel Baes, and Philipp Rostalski. Removing redundant quadratic constraints. *Lecture Notes in Computer Science*, 6327:270–281, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_46.pdf.

Jensen:2010:TSP

- [47] Anders Nedergaard Jensen. Traversing symmetric polyhedral fans. *Lecture Notes in Computer Science*, 6327:282–294, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_47.pdf.

Rehn:2010:CTE

- [48] Thomas Rehn and Achill Schürmann. C++ tools for exploiting polyhedral symmetries. *Lecture Notes in Computer Science*, 6327:295–298, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_48.pdf.

Verdoolaege:2010:IIS

- [49] Sven Verdoolaege. isl: an integer set library for the polyhedral model. *Lecture Notes in Computer Science*, 6327:299–302, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_49.pdf.

Liberti:2010:ROS

- [50] Leo Liberti, Sonia Cafieri, and David Savourey. The reformulation-optimization software engine. *Lecture Notes in Computer Science*, 6327:303–314, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_50.pdf.

Haase:2010:GSL

- [51] Christian Haase, Benjamin Lorenz, and Andreas Paffenholz. Generating smooth lattice polytopes. *Lecture Notes in Computer Science*, 6327:315–328, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_51.pdf.

Lecerf:2010:MTL

- [52] Grégoire Lecerf. Mathmagix: Towards large scale programming for symbolic and certified numeric computations. *Lecture Notes in Computer Science*, 6327:329–332, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_52.pdf.

Neher:2010:CIF

- [53] Markus Neher. Complex inclusion functions in the CoStLy C++ class library. *Lecture Notes in Computer Science*, 6327:333–336, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_53.pdf.

Revol:2010:SIA

- [54] Nathalie Revol. Standardized interval arithmetic and interval arithmetic used in libraries. *Lecture Notes in Computer Science*, 6327:337–341, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_54.pdf.

Leiserson:2010:EEL

- [55] Charles E. Leiserson, Liyun Li, Marc Moreno Maza, and Yuzhen Xie. Efficient evaluation of large polynomials. *Lecture Notes in Computer Science*, 6327:342–353, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_55.pdf.

Popova:2010:CFE

- [56] Evgenija D. Popova and Walter Krämer. Communicating functional expressions from Mathematica to C-XSC. *Lecture Notes in Computer Science*, 6327:354–365, 2010. CODEN LNCS9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL http://link.springer.com/content/pdf/10.1007/978-3-642-15582-6_56.pdf.

Abdalla:2010:PCL

- [57] Michel Abdalla and Paulo S. L. M. Barreto, editors. *Progress in cryptology — Latincrypt 2010: first international conference on cryptology and information security in Latin America, Puebla, Mexico, August 8–11, 2010, proceedings*, volume 6212 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-14711-9 (softcover). LCCN ????

Abe:2010:ACA

- [58] Masayuki Abe, editor. *Advances in cryptology — Asiacrypt 2010: 16th international conference on the theory and application of cryptology and information security, Singapore, December 5–9, 2010. Proceedings*, volume 6477 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-17372-1 (softcover). LCCN ????

Bao:2010:ISC

- [59] Feng Bao, Moti Yung, and Dongdai Lin, editors. *Information security and cryptology: 5th international conference, IN-SCRYPT 2009, Beijing, China, December 12–15, 2009. revised selected papers*, volume 6151 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-16341-6 (softcover). LCCN ????

Bernstein:2010:PCA

- [60] Daniel J. Bernstein and Tanja Lange, editors. *Progress in cryptology — Africacrypt 2010: third international conference on cryptology in Africa, Stellenbosch, South Africa, May 3–6, 2010. proceedings*, volume 6055 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-12677-4 (softcover). LCCN ????

Gilbert:2010:ACE

- [61] Henri Gilbert, editor. *Advances in cryptology — Eurocrypt 2010: 29th annual international conference on the theory and applications of cryptographic techniques, Monaco, May 30–June 3, 2010. Proceedings*, volume 6110 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-13189-1 (softcover). LCCN ????

Gollmann:2010:SCR

- [62] Dieter Gollmann, Jean-Louis Lanet, and Julien Iguchi-Cartigny, editors. *Smart card research and advanced application: 9th IFIP WG 8.8/11.2 International Conference, CARDIS 2010, Passau, Germany, April 14–16, 2010: proceedings*, volume 6035 of *Lecture Notes in Computer Science*. Springer, Berlin, Germany, 2010. ISBN 3-642-12509-3 (paperback). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN TK7895.S62 C36 2010.

Gong:2010:PCI

- [63] Guang Gong and Kishan Chand Gupta, editors. *Progress in cryptology — Indocrypt 2010: 11th international conference on cryptology in India, Hyderabad, India, December 12–15, 2010. Proceedings*, volume 6498 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-17400-0 (softcover). LCCN ????

Heng:2010:CNS

- [64] Swee-Huay Heng, Rebecca N. Wright, and Bok-Min Goi, editors. *Cryptology and network security: 9th international conference, CANS 2010, Kuala Lumpur, Malaysia, December 12–14, 2010. Proceedings*, volume 6467 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-17618-6 (softcover). LCCN ????

Lee:2010:ISC

- [65] Donghoon Lee and Seokhie Hong, editors. *Information, security and cryptology — ICISC 2009: 12th international conference, Seoul, Korea, December 2–4, 2009, revised selected papers*, volume 5984 of *Lecture notes in computer science*. Springer-Verlag Inc., New York,

NY, USA, 2010. ISBN 3-642-14422-5 (softcover). LCCN ????

Pieprzyk:2010:TCC

- [66] Josef Pieprzyk, editor. *Topics in cryptography — CT-RSA 2010: the 10th cryptographers' track at the RSA conference 2010, San Francisco, CA, USA, March 1–5, 2010. Proceedings*, volume 5985 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-11924-7 (softcover). LCCN ????

Rabin:2010:ACC

- [67] Tal Rabin, editor. *Advances in cryptography — Crypto 2010: 30th annual cryptography conference, Santa Barbara, CA, USA, August 15–19, 2010. Proceedings*, volume 6223 of *Lecture notes in computer science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-14622-8 (softcover). LCCN ????

Sendrier:2010:PQC

- [68] Nicolas Sendrier, editor. *Post-Quantum Cryptography: Third International Workshop, PQCrypto 2010, Darmstadt, Germany, May 25–28, 2010. Proceedings*, volume 6061 of *Lecture Notes in Computer Science*. Springer-Verlag Inc., New York, NY, USA, 2010. ISBN 3-642-12928-5. LCCN QA76.9.A25 2010.

Fukuda:2010:MSI

- [69] Komei Fukuda, Joris van der Hoeven, Michael Joswig, and Nobuki Takayama, editors. *Mathematical software — ICMS 2010: third International Congress on Mathematical Software, Kōbe, Japan, September 13–17, 2010: proceedings*, volume 6327 of *Lecture Notes in Computer Science*. Springer-Verlag Inc., New

York, NY, USA, 2010. ISBN 3-642-15581-2 (paperback), 3-642-15582-0 (e-book). LCCN QA76.95 .I5654 2010. URL <http://www.springerlink.com/content/978-3-642-15581-9>.