References

- [1] Helena Molina Abril. Homological spanning forests for discrete objects. *Universidad de Sevilla, PhD thesis*, 2012.
- [2] S. Aofi Al-Akbi and S. Hadi Jafari. Finite split metacyclic groups and their 2-nilpotent multipliers, 2023.
- [3] Nisreen Alokbi and Ali Sapeeh Mayah, Faik and Rashid. New invariant quantity to measure the entanglement in the braids. *J. Nig. Soc. Phys. Sci.*, 4, 1051, 2022.
- [4] V. Alvarez, J.A. Armario, M.D. Frau, and P. Real. Calculating cocyclic hadamard matrices in mathematica: Exhaustive and heuristic searches. In Andres Iglesias and Nobuki Takayama, editors, *Mathematical Software* - *ICMS 2006*, volume 4151 of *Lecture Notes in Computer Science*, pages 419–422. Springer Berlin Heidelberg, 2006.
- [5] N. Andruskiewitsch, C. Galindo, and M. Müller. Examples of finite-dimensional Hopf algebras with the dual Chevalley property. *ArXiv e-prints*, September 2015.
- [6] Andrés Angel, Eric Samperton, Carlos Segovia, and Bernardo Uribe. Oriented and unitary equivariant bordism of surfaces, 2021.
- [7] Zekeriya Arvasi, Alper Odabaş, and Christopher D. Wensley. Computing 3-Dimensional Groups: Crossed Squares and Cat²-Groups. *arXiv e-prints*, page arXiv:1911.12799, Nov 2019.
- [8] Anh Tuan B and Anh Thi N. A brief introduction to the Quillen conjecture. Sci. Tech. Dev. J., 22(2):235–238, 2019.
- [9] J.S. Bailes. Cohen-Lenstra Heuristics and the Cohomology of the Braid Group. PhD thesis, University of Melbourne. University of Melbourne, 2011.
- [10] Mohamed Barakat. The homomorphism theorem and effective computations. Habilitationsschrift, Aachen http://www.mathb.rwth-aachen.de/~barakat/habil.pdf, 2018.
- [11] Ethan Berkove and Alexander D. Rahm. The mod 2 cohomology rings of SL_2 of the imaginary quadratic integers. *J. Pure Appl. Algebra*, 220(3):944-975, 2016. With an appendix by Aurel Page.
- [12] Anna M. Bigatti and E. Sáenz-de Cabezón. Computation of the (n-1)-st Koszul homology of monomial ideals and related algorithms. In ISSAC 2009—Proceedings of the 2009 International Symposium on Symbolic and Algebraic Computation, pages 31–37. ACM, New York, 2009.
- [13] L.R. Bosko. Schur Multipliers of Nilpotent Lie Algebras. BiblioBazaar, 2012.

- [14] Rachel Boyd. Erratum to: Low-dimensional homology of finite-rank coxeter groups. https://guests.mpim-bonn.mpg.de/rachaelboyd/Erratum.pdf, 2021.
- [15] Piotr Brendel, Pawel Dlotko, Graham Ellis, Mateusz Juda, and Marian Mrozek. Computing fundamental groups from point clouds. Applicable Algebra in Engineering, Communication and Computing, 26(1-2):27–48, 2015.
- [16] A. T. Bui and Graham Ellis. Computing bredon homology of groups. Journal of Homotopy and Related Structures, 11(4):715–734, 2016.
- [17] Anh Tuan Bui, Alexander D. Rahm, and Matthias Wendt. On Farrell-Tate cohomology of GL₃ over rings of quadratic integers. J. Algebra, 615:328–357, 2023.
- [18] A.T. Bui, A. Rahm, and M. Wendt. The Farrell-Tate and Bredon homology for $PSL_4(\mathbb{Z})$ and other arithmetic groups. $ArXiv\ e\text{-}prints$, November 2016.
- [19] M. Bulcan, L. Li, and R. Radhakrishnan. $a \times b = c$ in 2 + 1d tqft. arXiv e-prints, page arXiv:2012.14689, Dec 2020.
- [20] Martin Čadek, Marek Krčál, Jiří Matoušek, Lukáš Vokřínek, and Uli Wagner. Polynomial-time computation of homotopy groups and Postnikov systems in fixed dimension. SIAM J. Comput., 43(5):1728–1780, 2014.
- [21] Filippo Callegaro and Ivan Marin. Homology computations for complex braid groups. *arXiv*, 1011.4375, 2010.
- [22] Peter J. Cameron. Graphs defined on groups. arXiv, 2102.11177, 2021.
- [23] Manuela Cerdeiro. Un nuevo enfoque sobre la conjetura de whitehead y la asfericidad delos complejos lot. *PhD thesis, Universidad de Buenos Aires en el area Ciencias Matematicas*, 2015.
- [24] Erin Wolf Chambers and Mikael Vejdemo-Johansson. Computing minimum area homologies. *Computer Graphics Forum*, 34(6):13–21, 2015.
- [25] Jacopo G. Chen. Computing the twisted l^2 -euler characteristic, 2024.
- [26] Rocco Chirivìand Mauro Spreafico. Space forms and group resolutions: the tetrahedral family. *J. Algebra*, 510:52–97, 2018.
- [27] Maura Clancy and Graham Ellis. Homology of some Artin and twisted Artin groups. J. K-Theory, 6(1):171–196, 2010.
- [28] I.S. Costa. Presentation complexes with the fixed point property. *Geometry and Topology*, 21:1275–1283, 2017.

- [29] I.S. Costa. Puntos fijos de acciones y funciones en 2-complejos. *PhD thesis, Universidad de Buenos Aires*, 2019.
- [30] Rodrigo de Almelda Rosa. Cálculo de grupos fundamentais de nuvens de pontos através de técnicas de Análise Topológica de Dados. São Paulo State University International, Masters thesis, 2021.
- [31] Paul de Lange. The physics & mathematics of microstates in string theory and a monstrous farey tail. *PhD thesis, Univ. van Amsterdam,* 2016.
- [32] Heiko Dietrich, Bettina Eick, and Dörte Feichtenschlager. Investigating p-groups by coclass with GAP. In Computational group theory and the theory of groups, volume 470 of Contemp. Math., pages 45–61. Amer. Math. Soc., Providence, RI, 2008.
- [33] Mathieu Dutour Sikirić and Graham Ellis. Wythoff polytopes and lowdimensional homology of Mathieu groups. J. Algebra, 322(11):4143–4150, 2009.
- [34] Mathieu Dutour Sikirić, Graham Ellis, and Achill Schürmann. On the integral homology of PSL₄(Z) and other arithmetic groups. *J. Number Theory*, 131(12):2368–2375, 2011.
- [35] E.G.Minian and K.I. Piterman. The fundamental group of the *p*-subgroup complex. *arXiv e-prints*, page arXiv:1903.03549, Mar 2019.
- [36] G. Ellis and K. Killeen. Cohomology with local coefficients and knotted manifolds. *Journal Symbolic Computation (to appear)*, 2021.
- [37] Graham Ellis. Homological algebra programming. In *Computational group theory and the theory of groups*, volume 470 of *Contemp. Math.*, pages 63–74. Amer. Math. Soc., Providence, RI, 2008.
- [38] Graham Ellis. Cohomological periodicities of crystallographic groups. *J. Algebra*, 445:537–544, 2016.
- [39] Graham Ellis. An invitation to computational homotopy. Oxford University Press, Oxford, 2019.
- [40] Graham Ellis and Fintan Hegarty. Computational homotopy of finite regular CW-spaces. J. Homotopy Relat. Struct., 9(1):25–54, 2014.
- [41] Graham Ellis and Simon King. Persistent homology of groups. *J. Group Theory*, 14(4):575–587, 2011.
- [42] Graham Ellis and Luyen Van Le. Homotopy 2-types of low order. Exp. Math., 23(4):383-389, 2014.
- [43] Graham Ellis and Le Van Luyen. Computational homology of *n*-types. *J. Symbolic Comput.*, 47(11):1309–1317, 2012.

- [44] Graham Ellis and Roman Mikhailov. A colimit of classifying spaces. *Adv. Math.*, 223(6):2097–2113, 2010.
- [45] Graham Ellis, Hamid Mohammadzadeh, and Hamid Tavallaee. Computing covers of Lie algebras. In *Computational group theory and the theory of groups, II*, volume 511 of *Contemp. Math.*, pages 25–31. Amer. Math. Soc., Providence, RI, 2010.
- [46] Graham Ellis and Emil Sköldberg. The $K(\pi, 1)$ conjecture for a class of Artin groups. Comment. Math. Helv., 85(2):409–415, 2010.
- [47] Graham Ellis and Paul Smith. Computing group cohomology rings from the Lyndon-Hochschild-Serre spectral sequence. *J. Symbolic Comput.*, 46(4):360–370, 2011.
- [48] Dominic Else and Ryan Thorngren. Topological theory of lieb-schultz-mattis theorems in quantum spin systems. arXiv:1907.08204, 2019.
- [49] P. Fernández Ascariz. Módulos cruzados de álgebras conmutativas, homología y HAP. Teses de doutoramento da Universidade de Santiago de Compostela. Universidad de Santiago de Compostela, Servizo de Publicacións e Intercambio Científico, 2007.
- [50] Matthias R. Gaberdiel, Daniel Persson, Henrik Ronellenfitsch, and Roberto Volpato. Generalized Mathieu Moonshine. Commun. Number Theory Phys., 7(1):145–223, 2013.
- [51] Terry Gannon and Corey Jones. Vanishing of categorical obstructions for permutation orbifolds. *arXiv:1804.08343*, 2018.
- [52] Giles Gardam. Low-dimensional homology of finite coxeter groups. Zenodo, 10.5281/zenodo.4758008, May 2021.
- [53] Taleea Jalaeeyan Ghorbanzadeh, Mohsen Parvizi, and Peyman Niroomand. The non-abelian tensor square of p-groups of order p^4 . Asian-Eur. J. Math., 11(6):1850084, 10, 2018.
- [54] Angus Gruen. Computing modular data for drinfeld centers of pointed fusion categories. *Bachelor thesis*, *The Mathematical Sciences Institute*, *Australian National University*, 2017.
- [55] Angus Gruen and Scott Morrison. Computing modular data for pointed fusion categories. *Indiana Univ. Math. J.*, 70(2):561–593, 2021.
- [56] S. Hatui. A characterization of finite p-groups by their schur multiplier. arXiv:1608.06322, 2016.
- [57] Sumana Hatui. Finite p-groups having Schur multiplier of maximum order. J. Algebra, 492:490–497, 2017.

- [58] Sumana Hatui, Vipul Kakkar, and Manoj K. Yadav. The Schur multiplier of groups of order p⁵. J. Group Theory, 22(4):647–687, 2019.
- [59] F. Hegarty. Computational Homology of Cubical and Permutahedral Complexes. PhD thesis, National University of Ireland Galway. National University of Ireland Galway, 2012.
- [60] Jónathan Heras, Vico Pascual, Ana Romero, and Julio Rubio. Integrating multiple sources to answer questions in algebraic topology. In *Intelligent* computer mathematics. 10th international conference, AISC 2010, 17th symposium, Calculemus 2010, and 9th international conference, MKM 2010, Paris, France, July 5–10, 2010. Proceedings, pages 331–335. Berlin: Springer, 2010.
- [61] Jónathan Heras, Vico Pascual, and Julio Rubio. Using open mathematical documents to interface computer algebra and proof assistant systems. In *Intelligent computer mathematics*. 16th symposium, Calculemus 2009, 8th international conference, MKM 2009, held as part of CICM 2009, Grand Bend, Canada, July 6–12, 2009. Proceedings, pages 467–473. Berlin: Springer, 2009.
- [62] Jónathan Heras, Vico Pascual, and Julio Rubio. A system for computing and reasoning in algebraic topology. In James H. Davenport, William M. Farmer, Josef Urban, and Florian Rabe, editors, *Intelligent Computer Mathematics*, volume 6824 of *Lecture Notes in Computer Science*, pages 295–297. Springer Berlin Heidelberg, 2011.
- [63] A. Holzinger. On topological data mining. Lecture Notes in Computer Science, 8401:331–356, 2014.
- [64] Andreas Holzinger and Igor Jurisica. Knowledge discovery and data mining in biomedical informatics: The future is in integrative, interactive machine learning solutions. In *Interactive Knowledge Discovery and Data Mining in Biomedical Informatics State-of-the-Art and Future Challenges*, pages 1–18. 2014.
- [65] A. Hoshi, M.-c. Kang, and A. Yamasaki. Multiplicative invariant fields of dimension ≤ 6. arXiv.org, arXiv:1609.04142, pages 1–105, 2016.
- [66] A. Hoshi, M.-c. Kang, and A. Yamasaki. Degree three unramified groups and noether's problem for groups of order 243. arXiv.org, arXiv:1710.01958, pages 1–61, 2017.
- [67] Akinari Hoshi, Kazuki Kanai, and Aiichi Yamasaki. Norm one tori and Hasse norm principle. *Math. Comp.*, 91(337):2431–2458, 2022.
- [68] Akinari Hoshi, Kazuki Kanai, and Aiichi Yamasaki. Norm one tori and Hasse norm principle, II: Degree 12 case. J. Number Theory, 244:84–110, 2023.

- [69] Akinari Hoshi and Aiichi Yamasaki. Rationality problem for algebraic tori. *Mem. American Math. Soc. (to appear)*, pages 1–146, 2016.
- [70] Santanil Jana. On the cohomology of the total space of classifying space for commutativity in u(3), 2023.
- [71] U. Jezernik. *Universal Commutator Relations*. PhD thesis, University of Ljubljana. University of Ljubljana, 2016.
- [72] Urban Jezernik and Primož Moravec. Bogomolov multipliers of groups of order 128. Exp. Math., 23(2):174–180, 2014.
- [73] T. Johnson-Freyd. The moonshine anomaly. *arXiv:1707.08388*, pages 1–15, 2017.
- [74] T. Johnson-Freyd and D. Treumann. $H^4(Co_0; Z) = Z_{24}$. arXiv:1707.07587v1, pages 1–14, 2017.
- [75] T. Johnson-Freyd and D. Treumann. Third homology of some sporadic finite groups. *arXiv:rXiv:1810.00463v1*, pages 1–29, 2018.
- [76] A. Joshi. MATHIEU MOONSHINE: From M₂₄ to M₁₂. MSc thesis, IIT Madras. 2016.
- [77] Renu Joshi and Siddhartha Sarkar. On the Schur multiplier of finite p-groups of maximal class. J. Group Theory, 26(3):533–545, 2023.
- [78] David Joyner. A primer on computational group homology and cohomology using GAP and SAGE. In Aspects of infinite groups, volume 1 of Algebra Discrete Math., pages 159–191. World Sci. Publ., Hackensack, NJ, 2008.
- [79] Tomasz Kaczynski and Marian Mrozek. The cubical cohomology ring: an algorithmic approach. Found. Comput. Math., 13(5):789–818, 2013.
- [80] Kazuki Kanai. On the hasse norm principle and the davenport-hasse lifting theorem. *PhD Thesis*, *Graduate School of Science and Technology*, *Niqata University*, page 217pp, March 2022.
- [81] M.-C. Kang and B. Kunyavskii. The bogomolov multiplier of rigid finite groups. *Archiv der Mathematik*, pages 209–218, 102 2014.
- [82] Anton Kapustin and Ryan Thorngren. Anomalous discrete symmetries in three dimensions and group cohomology. Phys. Rev. Lett., 112:231602, Jun 2014.
- [83] V. Kurlin. Computing invariants of knotted graphs given by sequences of points in 3-dimensional space. Topological methods in data analysis and visualization IV: theory, algorithms, and applications. Mathematics and visualization. (Springer), 2017.

- [84] Larry A. Lambe. An algebraic study of the Klein bottle. *J. Homotopy Relat. Struct.*, 11(4):885–891, 2016.
- [85] Jong Yeon Lee. Fractionalization, emergent gauge dynamics, and topology in quantum matter, 2020.
- [86] J.Y. Lee, A. Turner, and A. Vishwanaith. Building symmetry enriched topological phases from a bipartite lattice construction and anyon condensation. *arXiv e-prints*, page arXiv:1802.02155, Feb 2018.
- [87] Linfeng Li. Index relations and fusion rules: Explorations of supersymmetric, conformal, and topological field theories. *PhD Thesis*, *Queen Mary University of London*, page 232pp, 15 August 2021.
- [88] Linfeng Li. Index relations and fusion rules: Explorations of supersymmetric, conformal, and topological field theories. *Queen Mary, University of London, PhD thesis*, 2021.
- [89] Pedro Lopes and Manpreet Singh. Constructing an infinite family of quandles from a quandle, 2022.
- [90] Rafał Lutowski and Bartosz Putrycz. Spin structures on flat manifolds. J. Algebra, 436:277–291, 2015.
- [91] Pablo Magni. Derived equivalences of generalized kummer varieties, 2023.
- [92] Kimball Martin and Nahid Walji. Distinguishing finite group characters and refined local-global phenomena. arXiv, 2016.
- [93] I. Michailov, I. Ivanov, A. Aleksandrina, and G. Llianova. Algorithmic determination of isoclinism classes for 6-generator groups of nilpotency class 2. Proceedings of the University of Ruse Conference, 2015. http:conf.uni-ruse.bg/bg/docs/cp15/6.1/6.1-4.pdf, pages 24-27, 2015.
- [94] I. Michailov, I. Ivanov, and N. Ziapkov. Algorithmic generation of isoclinism classes for 4-generator groups of nilpotency class 2. *Proceedings of the University of Ruse Conference*, 2015. http:conf.uni-ruse.bg/bg/docs/cp15/6.1/6.1-3.pdf, pages 24-27, 2015.
- [95] Pascal Michel. Homology of groups and third busy beaver function. Internat. J. Algebra Comput., 20(6):769–791, 2010.
- [96] M. Mignard and P. Schauenburg. Morita equivalence of pointed fusion categories of small rank. *HAL Id: hal-01573708*, pages 1–46, 2017.
- [97] Roman Mikhailov and Jie Wu. On homotopy groups of the suspended classifying spaces. *Algebr. Geom. Topol.*, 10(1):565–625, 2010.

- [98] Thomas Titz Mite and Stefan Witzel. A c2-tilde-lattice that is not residually finite, 2023.
- [99] Yasushi Mizusawa. On certain 2-extensions of $\mathbb Q$ unramified at 2 and ∞ . Osaka J. Math., 53(4):1063–1088, 10 2016.
- [100] Yasushi Mizusawa. On various pro-p-extensions of number fields with-restricted ramification a survey. Kyoto University Research Information Repository 400: Research Institute for Mathematical Sciences, B86, 7 2021.
- [101] Mohammad Reza R. Moghaddam and Peyman Niroomand. Some properties of certain subgroups of tensor squares of p-groups. Comm. Algebra, $40(3):1188-1193,\ 2012.$
- [102] M. Muller Lopes Rocha. Ejemplos de algebras de Hopf semisimples y de algebras de Hopf con la propiedad de Chevalley dual. PhD thesis, Universidad National de Cordoba. University Universidad National de Cordoba, 2016.
- [103] D. Müllner. Orientation Reversal of Manifolds. Bonner mathematische Schriften. D. Müllner, 2008.
- [104] Neha Nanda, Mahender Singh, and Manpreet Singh. Knot invariants from derivations of quandles. arXiv:1804.01113, 2018.
- [105] Afifi Nawi, Nor Ali, Nor Muhainiah Mohd, and Nor Haniza Sarmin. Aip conference proceedings 2266, 060002 (2020); https://doi.org/10.1063/5.00183402266, 060002© 2020 author(s).the computation of schur multiplier and capability of pairs of groups of order p^4 . AIP Conference Proceedings 2266, 2020.
- [106] P. Niroomand and R. Rezaei. On the exterior degree of finite groups. Comm. Algebra, 39(1):335–343, 2011.
- [107] Peyman Niroomand and Rashid Rezaei. The exterior degree of a pair of finite groups. *Mediterr. J. Math.*, 10(3):1195–1206, 2013.
- [108] Peyman Niroomand and Francesco G. Russo. Probabilistic properties of the relative tensor degree of finite groups. *Indagationes Mathematicae*, 27(1):147–159, 2016.
- [109] A. Odabaş, E.Ö. Uslu, and E. Ilgaz. Isoclinism of crossed modules. *J. Symbolic Comput.*, 74:408–424, 2016.
- [110] Alper Odabas. Exterior isoclinism of crossed modules, 2022.
- [111] Yunqing Ouyang, Qing-Rui Wang, Zheng-Cheng Gu, and Yang Qi. Computing classification of interacting fermionic symmetry-protected topological phases using topological invariants*. *Chinese Physics Letters*, 38(12):127101, dec 2021.

- [112] Nansen Petrosyan and Bartosz Putrycz. On cohomology of crystallographic groups with cyclic holonomy of split type. *J. Algebra*, 367:237–246, 2012.
- [113] R. Radhakrishnan. Algebraic structure of topological and conformal field theories. *PhD thesis, Queen Mary, University of London*, Dec 2022.
- [114] Alexander D. Rahm. The homological torsion of PSL₂ of the imaginary quadratic integers. *Trans. Amer. Math. Soc.*, 365(3):1603–1635, 2013.
- [115] Alexander D. Rahm. Accessing the cohomology of discrete groups above their virtual cohomological dimension. *J. Algebra*, 404:152–175, 2014.
- [116] Alexander D. Rahm. The subgroup measuring the defect of the abelianization of $SL_2(\mathbb{Z}[i])$. J. Homotopy Relat. Struct., 9(2):257–262, 2014.
- [117] Pradeep K. Rai and Manoj K. Yadav. On Sh-rigidity of groups of order p⁶. J. Algebra, 428:26–42, 2015.
- [118] Pradeep Kumar Rai. Automorphisms of groups. *PhD Thesis, Homi Bhabha National Institute*, page 116pp, 2014.
- [119] J. Roberts. ALGORITHMS FOR UPPER BOUNDS OF LOW DIMENSIONAL GROUP HOMOLOGY. PhD thesis, University of Kentucky. University of Kentucky, 2010.
- [120] Joshua Roberts. An algorithm for low dimensional group homology. *Homology, Homotopy Appl.*, 12(1):27–37, 2010.
- [121] Marc Röder. Geometric algorithms for resolutions for Bieberbach groups. In Computational group theory and the theory of groups, II, volume 511 of Contemp. Math., pages 167–178. Amer. Math. Soc., Providence, RI, 2010.
- [122] Ana Romero, Graham Ellis, and Julio Rubio. Interoperating between computer algebra systems: Computing homology of groups with kenzo and gap. In *Proceedings of the 2009 International Symposium on Symbolic* and Algebraic Computation, ISSAC '09, pages 303–310, New York, NY, USA, 2009. ACM.
- [123] Ana Romero and Julio Rubio. Computing the homology of groups: the geometric way. *J. Symbolic Comput.*, 47(7):752–770, 2012.
- [124] Ana Romero and Julio Rubio. Homotopy groups of suspended classifying spaces: an experimental approach. *Math. Comp.*, 82(284):2237–2244, 2013.
- [125] Peter Schauenburg. Erratum to: "A higher Frobenius-Schur indicator formula for group-theoretical fusion categories". *Commun. Math. Phys.*, 350(2):893–896, 2017.

- [126] S. Schönnenbeck. Homologiegruppen von Einheitengruppen von Ordnungen. *Masterarbeit, RWTH Aachen*, September 2013.
- [127] S. Schönnenbeck. Hecke operators for algebraic modular forms . Thesis, $RWTH\ Aachen,$ September 2016.
- [128] S. Schönnenbeck. Resolutions for unit groups of orders. *ArXiv e-prints*, September 2016.
- [129] M. Schwald. On the definition of irreducible holomorphic symplectic manmifolds and their singular analogs. arXiv e-prints, page arXiv:2003.06004, Dec 2020.
- [130] Markus Szymik. The third Milgram–Priddy class lifts. arxiv.org/pdf/1909.05064.pdf, pages 1–6, 2019.
- [131] Bui Anh Tuan and Graham Ellis. The homology of $SL_2(\mathbb{Z}[1/m])$ for small m.~J.~Algebra,~408:102–108,~2014.
- [132] Lukas Vokrínek. Algorithmic aspects of topological problems. *Habilitation thesis*, *Brno University*, 2017.
- [133] Jian-Hao Zhang and Shuo Yang. Tensor network representations of fermionic crystalline topological phases on two-dimensional lattices, 2021.
- [134] Wayne Zheng, Jia-Wei Mei, and Yang Qi. Classification and monte carlo study of symmetric Z_2 spin liquids on the triangular lattice. arXiv:1505.05351, 2015.
- [135] V. Álvarez, J.A. Armario, M.D. Frau, and P. Real. A mathematica note-book for computing the homology of iterated products of groups. In Andres Iglesias and Nobuki Takayama, editors, *Mathematical Software ICMS 2006*, volume 4151 of *Lecture Notes in Computer Science*, pages 47–57. Springer Berlin Heidelberg, 2006.