Curriculum vitæ

Miki (Nicolas) HERMANN
LIX (CNRS, UMR 7161)
École Polytechnique
91128 Palaiseau cedex, France

hermann@lix.polytechnique.fr
http://www.lix.polytechnique.fr/~hermann/

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Personal Data

- Date of Birth: 21 December 1958
- Place of Birth: Bratislava, Czechoslovakia (now Slovakia)
- Citizenship: French and Slovak
- Spoken languages: English, French, German, Slovak, Czech, and Russian

Education

1. Habilitation (second Ph.D.), March 1994, University Henri Poincaré, Nancy, France
   Title: Divergence of term rewriting systems and schematizations of infinite sets of terms
   (in French: Divergence des systèmes de réécriture et schématisation des ensembles infinis de termes)
   Supervisor: Pierre Lescanne
2. "Doctor of Computer Science", June 1983, Comenius University, Bratislava, Czechoslovakia
   Title: Operational sematics of term rewriting systems (in Slovak)
   Supervisor: Igor Prívara

Employment History

01/2011 to present: Head of the Algorithms and Complexity research group in the Computer Science laboratory (LIX) of Ecole Polytechnique

04/2002 to present: Researcher in the laboratory LIX (CNRS, UMR 7161) at École Polytechnique

03/2016-05/2016: Scientific stay at the Simons Institute, University of California, Berkeley, withing the program *Counting Complexity and Phase Transitions*

03/1996 – 04/1996, 05/1998, 05/1999, 05/2000, 06/2002, 06/2003, 06/2006, 03/2007, ...

... 05/2009, 04/2010, 05/2012, 05/2013, 05/2014, 05/2015, and 07/2016: Visiting position at the Technical University of Vienna, Austria, *Institut für Computersprachen, Abteilung für Anwendung der formalen Logik*, on the invitation of Profs. Gernot Salzer and Alexander Leitsch.

08/1994 – 07/1995: Sabbatical stay as a Research Associate at the University of California in Santa Cruz, on the invitation of professor Phokion G. Kolaitis

10/1992 to present: Senior Research Fellow (*Chargé de recherche 1ère classe*), *Centre National de la Recherche Scientifique* (French National Research Center)

10/1987 to 03/2002: Researcher in the laboratory LORIA (CNRS, UMR 7503) in Nancy

09/1998 – 08/1999: Temporary associated professor at the University Henri Poincaré, Nancy 1

01/1993 – 12/1997: Deputy head of the EURECA research group in the scientific laboratory CRIN & INRIA-LORRAINE (now LORIA)

10/1988 – 09/1992: Research Fellow (*Chargé de recherche 2ème classe*), CNRS

10/1987 – 09/1988 Visiting Scientist (*Chargé de recherche associé*), CNRS

07/1983 – 09/1987 Research Scientist, Institute of Socio-Economic Information and Automation of Control (VUSEI-AR), Bratislava, Czechoslovakia

Current Research Interests

Constraint Satisfaction Problems, Computational Complexity, Counting Complexity, Analysis of Algorithms, Automated Deduction, Equational Logic, Term Rewriting Systems and Unification.

Received Grants

1. ANR Blanc International ALCOCLAN research grant with Technical University in Vienna, Austria, 2012-2015. Endowed with €213 000 for four permanent researchers, one post-doc, and a PhD student.
2. AMADEUS research project PAI with Technical University in Vienna, Austria (Gernot Salzer), 2009-2010.
3. AMADEUS research project PAI with Technical University in Vienna, Austria (Gernot Salzer), 2004-2005.
4. AMADEUS research project PAI with Technical University in Vienna, Austria (Gernot Salzer), 2000-2001.
5. NATO Scientific Grant for the sabbatical stay at the University of California in Santa Cruz, academic year 1994-95.
6. Grant *Projet STIMULATION*, Institut National Polytechnique de Lorraine, 1991.

Teaching Experience

Undergraduate level:

Computer Science Department, University of Nancy, France

- Mathematical Methods for Computer Science (mainly Logic, Analysis of Algorithms, and Formal Languages and Automata) (1998-99)
- Programming in Java (1998-99)
- Functional Programming in ML (1991-92, 1992-93)

Computer Science Department, University of Paris 11, Orsay, France

- Introduction to Theoretical Computer Science (labs 2001-2002 and 2002-2003)

Graduate level:

M.Sc. Computer Science, Paris

- Algorithms and Complexity of Constraint Satisfaction Problems,
  taught together with Manuel Bodirsky, 50% (12 hours) of the teaching load
  (2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013)
- Design of Algorithms for Combinatorial Optimization,
  Part: Complexity of Constraint Satisfaction Problems (2004-2005)

Computer Science Department, University of Nancy, France

- Complexity and Analysis of Algorithms (1999-2000, 2001-2002)
- Information and Coding Theory (1998-99, 1999-2000, 2000-2001, and 2001-2002)
- Rewrite Systems and Unification (1990-91, 1991-92, 1992-93, and 1993-94)

Technical University of Vienna, Austria

- Rewrite Systems and Unification (1995-96)
- Constraint Logic Programming (1997-98 and 1998-99)
- Error correcting codes (1999-2000 and 2001-2002)

Supervised Students

Ph.D. Students

Florian Richoux: École Polytechnique, 2006-2009. Defended his Ph.D. on November 12, 2009.
Now: assistant professor at Université de Nantes, France.

Laurent Juban: Université Nancy 1, 1996-1999. Defended his Ph.D. on December 21, 1999.
Now: in industry — *Office National de Forêts*, France, SAP project leader.

Co-supervized Ph.D. Students

Yann Strozecki: Université Paris 7, 2007-2010. Co-supervised with Arnaud Durand. Defended his Ph.D. on December 8, 2010.
Now: assistant professor at Université de Versailles Saint-Quentin, France.

Post-Doctoral Students

Michał Wrona: January 2015 — August 2015.
Now: Assistant professor at the Theoretical Computer Science Department of the Jagiellonian University, Kraków, Poland.

Stefan Mengel: October 2013 — September 2015.
Now: CNRS researcher at the CRIL laboratory, Université d'Artois, Lens, France.

Barnaby Martin: October 2012 — December 2012.
Now: Assistant professor at the Computer Science Department, Middlesex University, UK.

Gustav Nordh: September 2007 — August 2008.
Now: Assistant professor at the Computer Science Department, University of Linköping, Sweden.

Arnaud Durand: October 1998 — March 1999.
Now: Full professor at Mathematics Department, University Denis Diderot Paris 7, France.

M.Sc. Students

Vincent Rudelli: 2007-2008. (Now: high-school teacher of mathematics in Bordeaux)
Julien Demouth: 2004-2005. (Now: Senior Engineer at NVIDIA France)
Romuald Didelot: 1999-2000.
Lamia Djerid: 1992-93.

Participation on PhD Committees

Olivier Gasquet: first reader, University Paul Sabatier – Toulouse 3, July 1994
Ali Amaniss: first reader, University Henri Poincaré – Nancy 1, September 1996
Thierry Aimé: first reader, University Bordeaux 1, October 1996
Avy Sharell: first reader, University Paris 11 – Orsay, February 1998
Olivier Gasquet: D.Sc., first reader, University Paul Sabatier – Toulouse 3, December 2002
Florent Madelaine: examinator, University of Caen, March 2003
Bruno Zanuttini: first reader, University of Caen, July 2003
Guillaume Malod: examinator, University Claude Bernard – Lyon 1, July 2003
Nicolas Peltier: D.Sc., examinator, Institut National Polytechnique de Grenoble, June 2007.

Participation on Program Committees

LPAR 2015: program committee member
20th International Conference on Logic for Programming, Artificial Intelligence and Reasoning, Suva (Fiji), November 24-28, 2015.

TAMC 2011: program committee member
8th Annual Conference on Theory and Applications of Models of Computation, Tokyo (Japan), May 23-25, 2011.

LPAR 2010: program committee member
17th International Conference on Logic for Programming, Artificial Intelligence and Reasoning, Yogyakarta (Indonesia), October 10-15, 2010.

AAAI 2010: program committee member
24th Conference on Artificial Intelligence, Atlanta (Georgia, USA), July 11-15, 2010.

CADE 2009: program committee member
22nd International Conference on Automated Deduction, Montreal (Canada), August 2-7, 2009.

LPAR 2006: program committee **co-chair**
13th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, Phnom Penh (Cambodia), November 13-17, 2006.

LPAR 2005: program committee member
12th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, Montego Bay (Jamaica), December 2-6, 2005.

LPAR 2004: program committee member
11th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, Montevideo (Uruguay), March 14-18, 2005.

LPAR 2003: program committee member
10th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, Almaty (Kazakhstan), September 22-26, 2003.

CADE-19: program committee member
19th International Conference on Automated Deduction,
Miami Beach (Florida, USA), July 28-August 2, 2003.

LPAR 2002: program committee member
9th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, Tbilisi (Republic of Georgia), October 14-18, 2002.

SOFSEM '98: program committee member
25th Annual Seminar on Current Trends in Theory and Practice of Informatics,
Jasná (Slovakia), November 21-27, 1998.

Participation in French and International Projects

ANR: Head of the ANR Blanc International project ALCOCLAN (*Algorithms and Complexity of Constraint Languages*) with Technical University in Vienna, Austria, 2012-2015.

ANR: Member of the ANR project ENUM (*Algorithms and Complexity for Answer Enumeration*), 2008-2011.

AMADEUS: Head of the french part of an international project 2000-2001, 2004-2005, and 2009-2010 between France and Austria.

Organization of Workshops and Conferences

ADDCT'09: *Automated Deduction: Decidability, Complexity, Tractability* (ADDCT'09),
Workshop associated with *22nd International Conference on Automated Deduction* (CADE 2009), Montreal (Canada), August 2, 2009.

Co-organiser (with Franz Baader, Silvio Ghilardi, Viorica Sofronie-Stokkermans and Ashish Tiwari) of the workshop.

URL = http://www.mpi-inf.mpg.de/~sofronie/addct09/

CEDAR'08:
Complexity, Expressibility, and Decidability in Automated Reasoning (CEDAR'08).
Workshop associated with the 4th International Joint Conference on Automated Reasoning (IJCAR 2008)
Sydney (Australia), August 10, 2008.

URL = http://www.mpi-inf.mpg.de/~sofronie/cedar08.html

Co-organizer (with Franz Baader, Silvio Ghilardi, Ulrike Sattler, and Viorica Sofronie-Stokkermans) of the workshop.

LPAR 2006:
13th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR 2006)
Phnom Penh (Cambodia), November 13-17, 2006.

URL = http://www.lix.polytechnique.fr/~hermann/LPAR2006/

Co-chair (with Andrei Voronkov) of the conference.

The proceedings appeared as volume 4246 of *Lecture Notes in Artificial Intelligence*, printed by Springer-Verlag.

2nd International Workshop on Complexity in Automated Deduction:
satellite workshop of CADE-18 within the FLoC'02 conference
Copenhagen (Denmark), July 25-26, 2002.

Co-organizer (with Georg Gottlob and Michael Rusinowitch) of the workshop.

Selected papers appeared in *Theory of Computing Systems*, 37(6), 2004.

Workshop on Complexity, Finite Models, and Databases:
University Paris 2 (France), June 7-8, 2001.

Co-organizer (with Michel de Rougemont) of the workshop.

Workshop on Complexity in Automated Deduction:
LORIA, Nancy (France), June 29, 1999.

Member of the organizing committee and of the local arrangements.

Workshop on Schematisation Techniques
satellite workshop of the 13th International Conference on Automated Deduction within the FLoC'96 conference
New Brunswick (New Jersey, USA), July/August 1996.

URL = http://logic.at/cade13/

Co-organizer (with Gernot Salzer) of the workshop.

CADE-12: 12th International Conference on Automated Deduction, Nancy (France), June 1994;

Member of the organizing committee.

Invited Lectures

2016: Seminar 16381 *SAT and Interactions*, Schloß Dagstuhl (Germany), 18-23 September 2016. Contribution: *Minimal Distance of Propositional Models*.

2013: Seminar 13031 *Computational Counting*, Schloß Dagstuhl (Germany), 13-18 January 2013. Contribution: *How Hard It Is To Count Easily*.

2012: Seminar 12471 *SAT Interactions*, Schloß Dagstuhl (Germany), 18-23 November 2012.

2010: *International Workshop on Tractability*, Microsoft Research, Cambridge (United Kingdom), 5-6 July 2010. Contribution: *What Makes Minimal Inference Tractable*.

2009: Seminar 09441 *The Constraint Satisfaction Problem: Complexity and Approximability*, Schloß Dagstuhl (Germany), 25-30 October 2009.

2006: Seminar 06401 *Complexity of Constraints*, Schloß Dagstuhl (Germany), 1-6 October 2006.

2004: Canadian Mathematical Society 2004 Winter Meeting. Special Session on Universal Algebra and Complexity.
McGill University, Montreal (Quebec, Canada), 11-13 December 2004.

List of Publications

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Special Issues and Conference/Workshop Proceedings

P1 F. Baader, S. Ghilardi, M. Hermann, V. Sofronie-Stokkermans, and A. Tiwari. *Automated Deduction: Decidability, Complexity, Tractability* (ADDCT'09), Workshop associated with *22nd International Conference on Automated Deduction* (CADE 2009), Montreal (Canada), August 2009.

P2 F. Baader, S. Ghilardi, M. Hermann, U. Sattler, and V. Sofronie-Stokkermans. Complexity, Expressibility, and Decidability in Automated Reasoning (CEDAR'08). Workshop associated with *4th International Joint Conference on Automated Reasoning* (IJCAR 2008), Sydney (Australia), August 2008.

P3 M. Hermann and A. Voronkov, editors. *Proceedings 13th International Conference: Logic for Programming, Artificial Intelligence, and Reasoning* (LPAR 2006), volume 4246 of *Lecture Notes in Artificial Intelligence*, Phnom Penh (Cambodia). Springer-Verlag, November 2006.
DOI: 10.1007/11916277

P4 G.Gottlob, M. Hermann, and M. Rusinowitch. Special Issue of Papers From the 2nd International Workshop on Complexity in Automated Deduction. *Theory of Computing Systems*, 37(6), 2004.
DOI: 10.1007/s00224-004-3706-1

P5 M. Hermann and G. Salzer. Term Schematizations and Their Applications. Workshop associated with *13th International Conference on Automated Deduction* (CADE'96), New Brunswick (New Jersey, USA), July 1996.

Refereed Publications in Scientific Journals

J1 M. Bodirsky, M. Hermann, and F. Richoux. Complexity of existential positive first-order logic *Journal of Logic and Computation*, 23(4):753–760, 2013.
DOI: 10.1093/logcom/exr043

J2 A. Durand. M. Hermann, and G. Nordh. Trichotomies in the complexity of minimal inference. *Theory of Computing Systems*, 50(3):446–491, 2012.
DOI: 10.1007/s00224-011-9320-0

J3 M. Hermann and R. Pichler. Counting complexity of propositional abduction. *Journal of Computer and System Sciences*, 76(7):634–649, 2010.
DOI: 10.1016/j.jcss.2009.12.001

J4 V. Chepoi, N. Creignou, M. Hermann, and G. Salzer. The Helly property and satisfiability of Boolean formulas defined on set families. *European Journal of Combinatorics*, 31(2):502–516, 2010.
DOI: 10.1016/j.ejc.2009.03.022

J5 M. Hermann and R. Pichler. Complexity of counting the optimal solutions. *Theoretical Computer Science*, 410(38-40):3814–3825, 2009.
DOI: 10.1016/j.tcs.2009.05.025

J6 A. Gil, M. Hermann, G. Salzer, and B. Zanuttini. Efficient algorithms for constraint description problems over finite totally ordered domains. *SIAM Journal on Computing*, 38(3):922–945, 2008.
DOI: 10.1137/050635900

J7 M. Hermann. On Boolean primitive positive clones. *Discrete Mathematics*, 308(15):3151–3162, 2008.
DOI: 10.1016/j.disc.2007.06.018

J8 A. Durand and M. Hermann. On the counting complexity of propositional circumscription. *Information Processing Letters*, 106(4):164–170, 2008.
DOI: 10.1016/j.ipl.2007.11.006

J9 N. Creignou, M. Hermann, A. Krokhin, and G. Salzer. Complexity of clausal constraints over chains. *Theory of Computings Systems*, 42(2):239–255, 2008.
DOI: 10.1007/s00224-007-9003-z

J10 A. Durand, M. Hermann, and P. G. Kolaitis. Subtractive reductions and complete problems for counting complexity classes. *Theoretical Computer Science*, 340(3):496–513, 2005.
DOI: 10.1016/j.tsc.2005.03.012

J11 A. Durand, M. Hermann, and L. Juban. On the complexity of recognizing the Hilbert basis of a linear Diophantine system. *Theoretical Computer Science*, 270(1-2):625–642, 2002.
DOI: 10.1016/S0304-3975(01)00017-2

J12 M. Hermann and P. G. Kolaitis. Unification algorithms cannot be combined in polynomial time. *Information and Computation*, 162(1-2):24–42, 2000.
DOI: 10.1006/inco.1999.2855

J13 M. Hermann and P. G. Kolaitis. Computational complexity of simultaneous elementary matching problems. *Journal of Automated Reasoning*, 23(2):107–136, 1999.
DOI: 10.1023/A:1006136609427

J14 M. Hermann and R. Galbavý. Unification of infinite sets of terms schematized by primal grammars. *Theoretical Computer Science*, 176(1-2):111–158, 1997.
DOI: 10.1016/S0304-3975(96)00052-7

J15 N. Creignou and M. Hermann. Complexity of generalized satisfiability counting problems. *Information and Computation*, 125(1):1–12, 1996.
DOI: 10.1006/inco.1996.0016

J16 M. Hermann and P. G. Kolaitis. The complexity of counting problems in equational matching. *Journal of Symbolic Computation*, 20(3):343–362, 1995.
DOI: 10.1006/jsco.1995.1054

J17 M. Hermann, C. Kirchner, and H. Kirchner. Implementations of term rewriting systems. *Computer Journal*, 34(1):20–33, 1991.
DOI: 10.1093/comjnl/34.1.20
Reviewed in *Computing Reviews*, February 1992; under the number 9202-0102.

J18 M. Hermann. Chain properties of rule closures. *Formal Aspects of Computing*, 2(3):207–225, 1990.
DOI: 10.1007/BF01888225

Refereed Publications in Conference Proceedings

C1 M. Behrisch, M. Hermann, S. Mengel, and G. Salzer. The next whisky bar. In A. S. Kulikov and G. J. Woeginger, editors, *Proceedings 11th International Computer Science Symposium in Russia* (CSR 2016), St. Petersburg (Russia), volume 9691 of *Lecture Notes in Computer Science*, pages 41–56. Springer-Verlag, June 2016.
DOI: 10.1007/978-3-319-34171-2_4

C2 M. Behrisch, M. Hermann, S. Mengel, and G. Salzer. As close as it gets. In M. Kaykobad and R. Petreschi, editors, *Proceedings 10th International Workshop on Algorithms and Computation* (WALCOM 2016), Kathmandu (Nepal), volume 9627 of *Lecture Notes in Computer Science*, pages 222–235. Springer-Verlag, March 2016.
DOI: 10.1007/978-3-319-30139-6_18

C3 M. Behrisch, M. Hermann, S. Mengel, and G. Salzer. Give me another one! In K. M. Elbassioni and K. Makino, editors, *Proceedings 26th International Symposium on Algorithms and Computation* (ISAAC 2015), Nagoya (Japan), volume 9472 of *Lecture Notes in Computer Science*, pages 664–676. Springer-Verlag, December 2015.
DOI: 10.1007/978-3-662-48971-0_56

C4 P. Hell, M. Hermann, and M. M. Nevisi. Counting partitions of graphs. In K.-M. Chao, T.-s. Hsu, and D.-T. Lee, editors, *Proceedings 23rd International Symposium on Algorithms and Computation* (ISAAC 2012), Taipei (Taiwan), volume 7676 of *Lecture Notes in Computer Science*, pages 227–236. Springer-Verlag, December 2012.
DOI: 10.1007/978-3-642-35261-4_26

C5 M. Hermann and F. Richoux. On the complexity of fuzzy boolean constraint satisfaction problems with applications to intelligent digital photography. *3rd IEEE Pacific-Asia Conference on Circuits, Communications, and Systems* (PACCS 2011), Wuhan (China), July 2011.
DOI: 10.1109/PACCS.2011.5990158

C6 A. Durand, M. Hermann, and G. Nordh. Trichotomy in the complexity of minimal inference. In *Proceedings 24th Annual IEEE Symposium on Logic in Computer Science* (LICS 2009), Los Angeles (California, USA), pages 387–396, August 2009.
DOI: 10.1109/LICS.2009.14

C7 M. Bodirsky, M. Hermann, and F. Richoux. Complexity of existential positive first-order logic. In K. Ambos-Spies, B. Löwe, and W. Merkle, editors, *Proceedings 5th Conference on Computability in Europe* (CiE 2009), Heidelberg (Germany), volume 5635 of *Lecture Notes in Computer Science*, pages 31–36. Springer-Verlag, July 2009.
DOI: 10.1007/978-3-642-03073-4_4

C8 M. Hermann and F. Richoux. On the computational complexity of monotone constraint satisfaction problems. In S. Das and R. Uehara, editors, *Proceedings 3rd Annual Workshop on Algorithms and Computation* (WALCOM 2009), Kolkata (India), volume 5431 of *Lecture Notes in Computer Science*, pages 286–297. Springer-Verlag, February 2009.
DOI: 10.1007/978-3-642-00202-1_25

C9 M. Hermann and R. Pichler. Counting complexity of minimal cardinality and minimal weight abduction. In S. Hölldobler, C. Lutz and H. Wansing, editors, *Proceedings 11th European Conference on Logics in Artificial Intelligence* (JELIA 2008), Dresden (Germany), volume 5293 of *Lecture Notes in Artificial Intelligence*, pages 206–218. Springer-Verlag, 2008.
DOI: 10.1007/978-3-540-87803-2_18

C10 M. Hermann and R. Pichler. Complexity of counting the optimal solutions. In X. Hu and J. Wang, editors, *Proceedings 14th International Conference on Computing and Combinatorics* (COCOON 2008), Dalian (China), volume 5092 of *Lecture Notes in Computer Science*, pages 149–159. Springer-Verlag, June 2008.
DOI: 10.1007/978-3-540-69733-6_16

C11 M. Hermann and F. Richoux. Sur la complexité algorithmique des problèmes de satisfaction de contraintes disjonctifs. In *Actes 4e Journées Francophones de Programmation par Contraintes* (JFPC 2008), Nantes (France), pages 209–218, June 2008.

C12 V. Chepoi, N. Creignou, M. Hermann, and G. Salzer. Deciding the satisfiability of propositional formulas in finitely-valued signed logics. In G. W. Dueck, editor, *Proceedings 38th IEEE International Symposium on Multiple-Valued Logic* (ISMVL 2008), Dallas (Texas, USA), pages 100–105, May 2008.
DOI: 10.1109/ISMVL.2008.41

C13 M. Hermann and B. Sertkaya. On the complexity of computing generators of closed sets. In R. Medina and S. Obiedkov, editors, *Proceedings 6th International Conference on Formal Concept Analysis* (ICFCA 2008), Montreal (Canada), volume 4933 of *Lecture Notes in Computer Science*, pages 158–168. Springer-Verlag, February 2008.
DOI: 10.1007/978-3-540-78137-0_12

C14 P. Chapdelaine, M. Hermann, and I. Schnoor. Complexity of default logic on generalized conjunctive queries. In Ch. Baral, G. Brewka, and J. Schlipf, editors, *Proceedings 9th International Conference on Logic Programming and Nonmonotonic Reasoning* (LPNMR 2007), Tempe (Arizona, USA), volume 4483 of *Lecture Notes in Artificial Intelligence*, pages 58–70. Springer-Verlag, May 2007.
DOI: 10.1007/978-3-540-72200-7_7

C15 M. Hermann and R. Pichler. Counting complexity of propositional abduction. In M. M. Veloso, editor, *Proceedings 20th International Joint Conference on Artificial Intelligence* (IJCAI 2007), Hyderabad (India), pages 417–422. AAAI Press, January 2007.

C16 A. Gil, M. Hermann, G. Salzer, and B. Zanuttini. Efficient algorithms for constraint description problems over finite totally ordered domains. In D. Basin and M. Rusinowitch, editors, *Proceedings 2nd International Joint Conference on Automated Reasoning* (IJCAR'04). Cork (Ireland), volume 3097 of *Lecture Notes in Computer Science*, pages 244–258. Springer-Verlag, July 2004.
DOI: 10.1007/b98691

C17 M. Bauland, P. Chapdelaine, N. Creignou, M. Hermann, and H. Vollmer. An algebraic approach to the complexity of generalized conjunctive queries. In H. H. Hoos and D. G. Mitchell, editors, *Proceedings 7th International Conference on Theory and Applications of Satisfiability Testing* (SAT 2004), Vancouver (British Columbia, Canada), volume 3542 of *Lecture Notes in Computer Science*, pages 30–45. Springer-Verlag, May 2004. Refereed selected papers.
DOI: 10.1007/11527695_3

C18 A. Durand and M. Hermann. The inference problem for propositional circumscription of affine formulas is coNP-complete. In H. Alt and M. Habib, editors, *Proceedings 20th International Symposium on Theoretical Aspects of Computer Science* (STACS 2003), Berlin (Germany), volume 2607 of *Lecture Notes in Computer Science*, pages 451-462. Springer-Verlag, February 2003.
DOI: 10.1007/3-540-36494-3_40

C19 A. Durand, M. Hermann, and P. G. Kolaitis. Subtractive reductions and complete problems for counting complexity classes. M. Nielsen and B. Rovan, editors, *Proceedings 25th International Symposium on Mathematical Foundations of Computer Science* (MFCS 2000), Bratislava (Slovakia), volume 1893 of *Lecture Notes in Computer Science*, pages 323–332. Springer-Verlag, August 2000.
DOI: 10.1007/3-540-44612-5_28

C20 M. Hermann, L. Juban, and P. G. Kolaitis. On the complexity of counting the Hilbert basis of a linear Diophantine system. In H. Ganzinger, D. McAllester, and A. Voronkov, editors, *Proceedings 6th International Conference on Logic for Programming and Automated Reasoning* (LPAR'99), Tbilisi (Republic of Georgia), volume 1705 of *Lecture Notes in Computer Science (in Artificial Intelligence)*, pages 13–32, Springer-Verlag, September 1999.
DOI: 10.1007/3-540-48242-3_2

C21 A. Durand, M. Hermann, and L. Juban. On the complexity of recognizing the Hilbert basis of a linear Diophantine system. In M. Kutyłowski, L. Pacholski, and T. Wierzbicki, editors, *Proceedings 24th International Symposium on Mathematical Foundations of Computer Science* (MFCS'99), Szklarska Poręba (Poland), volume 1672 of *Lecture Notes in Computer Science*, pages 92–102. Springer-Verlag, September 1999.
DOI: 10.1007/3-540-48340-3_9

C22 M. Hermann and G. Salzer. On the word, subsumption, and complement problem for recurrent term schematizations. L. Brim, J. Gruska, and J. Zlatuška, editors, *Proceedings 23rd International Symposium on Mathematical Foundations of Computer Science* (MFCS'98), Brno (Czech Republic), volume 1450 of *Lecture Notes in Computer Science*, pages 257–266. Springer-Verlag, August 1998.
DOI: 10.1007/BFb0055775

C23 M. Hermann and P. G. Kolaitis. On the complexity of unification and disunification in commutative idempotent semigroups. G. Smolka, editor, *Proceedings 3rd International Conference on Principles and Practice of Constraint Programming* (CP'97), Linz (Austria), volume 1330 of *Lecture Notes in Computer Science*, pages 283–297. Springer-Verlag, October 1997.
DOI: 10.1007/BFb0017446

C24 A. Amaniss, M. Hermann, and D. Lugiez. Set operations for recurrent term schematizations. M. Bidoit and M. Dauchet, editors, *Proceedings 7th International Joint Conference on Theory and Practice of Software Development* (TAPSOFT'97), Lille (France), volume 1214 of *Lecture Notes in Computer Science*, pages 333–344. Springer-Verlag, April 1997.
DOI: 10.1007/BFb0030608

C25 M. Hermann and P. G. Kolaitis. Unification algorithms cannot be combined in polynomial time. M.A. McRobbie and J.K. Slaney, editors, *Proceedings 13th International Conference on Automated Deduction* (CADE'96), New Brunswick, (New Jersey, USA), volume 1104 of *Lecture Notes in Computer Science (in Artificial Intelligence)*, pages 246–260. Springer-Verlag, July/August 1996.
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