Constraint Handling Rules Bibliography

Peter Van Weert   Jon Sneyers   Tom Schrijvers
Leslie De Koninck

December 16, 2013

[Abd97]   Slim Abdennadher. Operational semantics and confluence of constraint propagation rules. In G. Smolka, editor, *CP '97: Proc. Third Intl. Conf. Principles and Practice of Constraint Programming*, volume 1330 of *LNCS*, pages 252–266. Springer, 1997.

[Abd00]   Slim Abdennadher. A language for experimenting with declarative paradigms. In Frühwirth et al. [F+00b].

[Abd01]   Slim Abdennadher. *Rule-based Constraint Programming: Theory and Practice*. Habilitationsschrift, Institute of Computer Science, LMU, Munich, Germany, July 2001.

[Abd10]   Slim Abdennadher, editor. *WLP '10: Proc. 13th Workshop on Logic Programming*, September 2010.

[AC00]   Slim Abdennadher and Henning Christiansen. An experimental CLP platform for integrity constraints and abduction. In *FQAS '00: Proc. 4th Intl. Conf. Flexible Query Answering Systems*, pages 141–152. Springer, October 2000.

[ACD+07]   Marco Alberti, Federico Chesani, Davide Daolio, Marco Gavanelli, Evelina Lamma, Paola Mello, and Paolo Torroni. Specification and verification of agent interaction protocols in a logic-based system. *Scalable Computing: Practice and Experience*, 8(1):1–13, March 2007.

[ACGL05]   Marco Alberti, Federico Chesani, Marco Gavanelli, and Evelina Lamma. The CHR-based implementation of a system for generation and confirmation of hypotheses. In Wolf et al. [WFM05], pages 111–122.

[ACL98]   T. Andreasen, H. Christiansen, and H.L. Larsen, editors. *FQAS '98: Proc. 3rd Intl. Conf. on Flexible Query Answering Systems*, volume 1495 of *LNAI*. Springer, May 1998.

[AdAS09]   Marcos Aurélio de Almeida Silva. Constraint Handling Object-oriented Rules with Disjunction (CHORD). Master's thesis, Federal University of Pernambuco, Recife, Brazil, February 2009.

[AdASR09]   Marcos Aurélio de Almeida Silva and Jacques Robin. Extending CHR with objects under a variety of inheritance and world-closure assumptions. In Raiser and Sneyers [RS09], pages 3–17.

[ADT+04]   Marco Alberti, Davide Daolio, Paolo Torroni, Marco Gavanelli, Evelina Lamma, and Paola Mello. Specification and verification of agent interaction protocols in a logic-based system. In H. Haddad et al., editors, *SAC '04: Proc. 19th ACM Symp. Applied Computing*, pages 72–78. ACM Press, March 2004.

[AF98]   Slim Abdennadher and Thom Frühwirth. On completion of Constraint Handling Rules. In Maher and Puget [MP98], pages 25–39.

[AF99]   Slim Abdennadher and Thom Frühwirth. Operational equivalence of CHR programs and constraints. In Jaffar [Jaf99], pages 43–57.

[AF02]   Sandra Alves and Mario Florido. Type inference using Constraint Handling Rules. In Hanus [Han02], pages 56–72.

[AF04]   Slim Abdennadher and Thom Frühwirth. Integration and optimization of rule-based constraint solvers. In M. Bruynooghe, editor, *LOPSTR '03*, volume 3018 of *LNCS*, pages 198–213. Springer, 2004.

[AF08]   Slim Abdennadher and Shehab Fawzy. JCHRIDE: An Integrated Development Environment for JCHR. In Sibylle Schwarz, editor, *WLP '08: Proc. 22nd Workshop on (Constraint) Logic Programming*, pages 1–6, Dresden, Germany, September 2008. University Halle-Wittenberg, Institute of Computer Science, Technical report 2008/08.

[AFH05]   Slim Abdennadher, Thom Frühwirth, and Christian Holzbaur, editors. *Special Issue on Constraint Handling Rules*, volume 5(4–5) of *Theory and Practice of Logic Programming*. Cambridge University Press, July 2005.

[AFM96]   Slim Abdennadher, Thom Frühwirth, and Holger Meuss. On confluence of Constraint Handling Rules. In *CP '96: Proc. Second Intl. Conf. Principles and Practice of Constraint Programming*, volume 1118 of *LNCS*, pages 1–15. Springer, August 1996.

[AFM99]   Slim Abdennadher, Thom Frühwirth, and Holger Meuss. Confluence and semantics of constraint simplification rules. *Constraints*, 4(2):133–165, 1999.

[AFR08]   Marcos Aurélio, François Fages, and Jacques Robin. Default reasoning in CHR$^\vee$. In Schrijvers et al. [SRF08], pages 111–126.

[AFS13]   Slim Abdennadher, Ghada Fakhry, and Nada Sharaf. Implementation of the operational semantics for CHR with user-defined rule priorities. In Christiansen and Sneyers [CS13], pages 1–12.

[AGGZ$^+$13] Elvira Albert, Maria J. García de la Banda, Miguel Gómez-Zamalloa, José Miguel Rojas, and Peter J. Stuckey. A CLP heap

solver for test case generation. In Lamma and Swift [LS13a], pages 721–735.

[AGL⁺04] Marco Alberti, Marco Gavanelli, Evelina Lamma, Paola Mello, and Paolo Torroni. Specification and verification of agent interaction using social integrity constraints. In *LCMAS'03: Logic and Communication in Multi-Agent Systems*, volume 85(2) of *ENTCS*, pages 94–116. Elsevier, 2004.

[AGL⁺05] Marco Alberti, Marco Gavanelli, Evelina Lamma, Paola Mello, and Michela Milano. A CHR-based implementation of known arc-consistency. In Abdennadher et al. [AFH05], pages 419–440.

[AGL⁺06] Marco Alberti, Marco Gavanelli, Evelina Lamma, Federico Chesani, Paola Mello, and Paolo Torroni. Compliance verification of agent interaction: a logic-based software tool. *Applied Artificial Intelligence*, 20(2–4):133–157, 2006.

[AGL10] Marco Alberti, Marco Gavanelli, and Evelina Lamma. Runtime addition of integrity constraints in an abductive proof procedure. In Hermenegildo and Schaub [HS10b].

[AGL11a] Marco Alberti, Marco Gavanelli, and Evelina Lamma. The CHR-based implementation of the SCIFF abductive system. In *Proc. 26th CILC: 26-esimo Convegno Italiano di Logica Computazionale*, August-September 2011.

[AGL⁺11b] Marco Alberti, Marco Gavanelli, Evelina Lamma, Fabrizio Riguzzi, and Sergio Storari. Learning specifications of interaction protocols and business processes and proving their properties. *Intelligenza artificiale*, 5(1):71–75, February 2011.

[AGL12] M. Alberti, M. Gavanelli, and E. Lamma. Deon+: Abduction and constraints for normative reasoning. In Alexander Artikis, Robert Craven, Nihan Kesim, Babak Sadighi, and Kostas Stathis, editors, *Festschrift of Marek Sergot*. Springer, 2012.

[AGL13] Marco Alberti, Marco Gavanelli, and Evelina Lamma. The chr-based implementation of the sciff abductive system. *Fundam. Inform.*, 124(4):365–381, 2013.

[Aic10] Bernhard Aichernig. A systematic introduction to mutation testing in unifying theories of programming. In Paulo Borba, Ana Cavalcanti, Augusto Sampaio, and Jim Woodcook, editors, *Testing Techniques in Software Engineering*, volume 6153 of *LNCS*, pages 243–287. Springer, 2010.

[AIK10] Slim Abdennadher, Haythem Ismail, and Frederick Khoury. Transforming imperative algorithms to Constraint Handling Rules. In Wolf and Geske [WG10].

3

[AJ08]   Bernhard K. Aichernig and He Jifeng. Mutation testing in UTP. *Formal Aspects of Computing*, 21(1–2):33–64, February 2008.

[AKMR00]   K.R. Apt, A.C. Kakas, E. Monfroy, and F. Rossi, editors. *New Trends in Constraints, Joint ERCIM/Compulog Net Workshop, October 1999, Selected papers*, volume 1865 of *LNCS*. Springer, 2000.

[AKSS02]   Slim Abdennadher, Ekkerhard Krämer, Matthias Saft, and Matthias Schmauß. JACK: A Java Constraint Kit. In Hanus [Han02], pages 1–17. See also `http://pms.ifi.lmu.de/software/jack/`.

[Alb05]   Marco Alberti. *A Computational Logic-based System for Specification and Verification of Agent Interaction*. PhD thesis, University of Ferrara, Italy, 2005.

[AM00]   Slim Abdennadher and Michael Marte. University course timetabling using Constraint Handling Rules. In Holzbaur and Frühwirth [HF00a], pages 311–325.

[AM01]   Krzysztof R. Apt and Eric Monfroy. Constraint programming viewed as rule-based programming. *TPLP*, 1(6):713–750, 2001.

[AOST06]   Slim Abdennadher, Abdellatif Olama, Noha Salem, and Amira Thabet. ARM: Automatic Rule Miner. In *LOPSTR '06, Revised Selected Papers*, volume 4407 of *LNCS*. Springer, July 2006.

[AR01]   Slim Abdennadher and Christophe Rigotti. Using confluence to generate rule-based constraint solvers. In De Nicola and Søndergaard [DS01], pages 127–135.

[AR04]   Slim Abdennadher and Christophe Rigotti. Automatic generation of rule-based constraint solvers over finite domains. *ACM TOCL*, 5(2):177–205, 2004.

[AR05]   Slim Abdennadher and Christophe Rigotti. Automatic generation of CHR constraint solvers. In Abdennadher et al. [AFH05], pages 403–418.

[AS98]   Slim Abdennadher and Heribert Schütz. CHR$^\vee$, a flexible query language. In Andreasen et al. [ACL98], pages 1–14.

[AS01]   Slim Abdennadher and Matthias Saft. A visualization tool for Constraint Handling Rules. In A. Kusalik, editor, *WLPE '01*, December 2001.

[AS06]   Dulce Aguilar-Solis. Learning semantic parsers: A Constraint Handling Rule approach. In Etalle and Truszczynski [ET06], pages 447–448. Poster Paper.

[AS08]   Slim Abdennadher and Ingi Sobhi. Generation of rule-based constraint solvers: Combined approach. In King [Kin08].

[AS12]   Slim Abdennadher and Nada Sharaf. Visualization of CHR through Source-to-Source Transformation. In Agostino Dovier and Vítor Santos Costa, editors, *Technical Communications of the 28th International Conference on Logic Programming (ICLP'12)*, volume 17 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 109–118, Dagstuhl, Germany, 2012. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.

[ASD04]   Dulce Aguilar-Solis and Verónica Dahl. Coordination revisited – a Constraint Handling Rule approach. In *IBERAMIA '04: Proc. 9th Ibero-American Conf. on AI*, volume 3315 of *LNCS*, pages 315–324, November 2004.

[ASW00]   Slim Abdennadher, Matthias Saft, and Sebastian Will. Classroom assignment using constraint logic programming. In *PACLP '00: Proc. 2nd Intl. Conf. and Exhibition on Practical Application of Constraint Technologies and Logic Programming*, April 2000.

[BA05]   Sebastian Brand and Krzysztof R. Apt. Schedulers and redundancy for a class of constraint propagation rules. In Abdennadher et al. [AFH05], pages 441–465.

[Bav06]   Maryam Bavarian. Design and analysis of biological sequences using Constraint Handling Rules. Master's thesis, Simon Fraser University, Burnaby, Canada, 2006.

[BC12]   Fabian Buettner and Jordi Cabot. Lightweight string reasoning for OCL. In *8th European Conference on Modelling Foundations and Applications (ECMFA)*, 2012.

[BD03]   Gabriel G. Bès and Verónica Dahl. Balanced parentheses in NL texts: a useful cue in the syntax/semantics interface. In *Proc. Lorraine-Saarland Workshop on Prospects and Advances in the Syntax/Semantics Interface*, October 2003. Poster Paper.

[BD06]   Maryam Bavarian and Verónica Dahl. Constraint based methods for biological sequence analysis. *J. UCS*, 12(11):1500–1520, 2006.

[Ber10]   N. Berger. Modélisation et résolution en programmation par contraintes de problèmes mixtes continu/discret de satisfaction de contraintes et d'optimisation. October 2010.

[Bet04]   Hariolf Betz. A linear logic semantics for CHR. Diplomarbeit, University of Ulm, Germany, October 2004.

[Bet07]   Hariolf Betz. Relating coloured Petri nets to Constraint Handling Rules. In Djelloul et al. [DDS07], pages 33–47.

[BF05a]   P. Barahona and A.P. Felty, editors. *PPDP '05: Proc. 7th Intl. Conf. Princ. Pract. Declarative Programming*. ACM Press, July 2005.

[BF05b]   Hariolf Betz and Thom Frühwirth. A linear-logic semantics for Constraint Handling Rules. In *CP '05*, volume 3709 of *LNCS*, pages 137–151. Springer, October 2005.

[BF07]   Hariolf Betz and Thom Frühwirth. A linear-logic semantics for Constraint Handling Rules with disjunction. In Djelloul et al. [DDS07], pages 17–31.

[BFMR04]   Stefano Bistarelli, Thom Frühwirth, Michael Marte, and Francesca Rossi. Soft constraint propagation and solving in Constraint Handling Rules. *Computational Intelligence: Special Issue on Preferences in AI and CP*, 20(2):287–307, May 2004.

[BG98]   Stéphane Bressan and Cheng Hian Goh. Answering queries in context. In Andreasen et al. [ACL98], pages 68–82.

[BGL$^+$97]   Stéphane Bressan, Cheng Hian Goh, Thomas Lee, Stuart Madnick, and Michael Siege. A procedure for mediation of queries to sources in disparate contexts. In *Proc. Intl. Logic Programming Symp.*, pages 213–228. MIT Press, 1997.

[Bja96]   M. Bjareland. Proving consistency in K-IA chronicles—an implemention of PMON. Master's thesis, Dept. of Information and Comp. Science, Linkoepings Universitet, 1996.

[BM03]   Sebastian Brand and Eric Monfroy. Deductive generation of constraint propagation rules. In G. Vidal, editor, *RULE '03: 4th Intl. Workshop on Rule-Based Programming*, volume 86(2) of *ENTCS*, pages 45–60. Elsevier, September 2003.

[BM05]   Alma Barranco-Mendoza. *Stochastic and heuristic modelling for analysis of the growth of pre-invasive lesions and for a multidisciplinary approach to early cancer diagnosis*. PhD thesis, Simon Fraser University, Burnaby, Canada, 2005.

[BM06]   A. Bossi and M.J. Maher, editors. *PPDP '06: Proc. 8th Intl. Conf. Princ. Pract. Declarative Programming*. ACM Press, July 2006.

[BMRS12]   Stefano Bistarelli, Fabio Martinelli, Francesco Roperti, and Francesco Santini. Negotiation of weighted rtml credentials on

mobile devices. In Marco De Marco, Dov Te'eni, Valentina Albano, and Stefano Za, editors, *Information Systems: Crossroads for Organization, Management, Accounting and Engineering*, pages 429–438. Physica-Verlag HD, 2012.

[BMS10a]   S. Bistarelli, F. Martinelli, and F. Santini. A formal framework for trust policy negotiation in autonomic systems: abduction with soft constraints. *Autonomic and Trusted Computing*, pages 268–282, 2010.

[BMS10b]   Stefano Bistarelli, Fabio Martinelli, and Francesco Santini. A formal framework for trust policy negotiation in autonomic systems: abduction with soft constraints. In *Proceedings of the 7th international conference on Autonomic and trusted computing*, ATC'10, pages 268–282, Berlin, Heidelberg, 2010. Springer-Verlag.

[BMS12a]   Stefano Bistarelli, Fabio Martinelli, and Francesco Santini. A semiring-based framework for the deduction/abduction reasoning in access control with weighted credentials. *Computers & Mathematics with Applications*, 64(4):447–462, 2012.

[BMS12b]   Stefano Bistarelli, Fabio Martinelli, and Francesco Santini. A semiring-based framework for the deduction/abduction reasoning in access control with weighted credentials. *Computers & Mathematics with Applications*, (0):–, 2012.

[BMZ$^+$06]   Susan E. Brennan, Klaus Mueller, Greg Zelinsky, IV Ramakrishnan, David S. Warren, and Arie Kaufman. Toward a multi-analyst, collaborative framework for visual analytics. In *2006 IEEE Symposium On Visual Analytics Science And Technology*, October-November 2006.

[Boe07]   Mathieu Boespflug. TaiChi:how to check your types with serenity. *The Monad.Reader*, 9:17–31, November 2007.

[Bou05]   Olivier Bouissou. A CHR library for SiLCC. Diplomarbeit, Technical University of Berlin, Germany, January 2005.

[Bra02]   Sebastian Brand. A note on redundant rules in rule-based constraint programming. In *Joint ERCIM/CologNet Intl. Workshop on Constraint Solving and Constraint Logic Programming, Selected papers*, volume 2627 of *LNCS*, pages 279–336. Springer, June 2002.

[Bre97]   Stéphane Bressan. Overview of a Prolog implementation of COntext INterchange mediator. In *PAP '97: Proc. Fifth Intl. Conf. Pract. Applic. Prolog*, London, 1997. Practical Application Company Ltd.

[BRF10a]   Hariolf Betz, Frank Raiser, and Thom Frühwirth. A complete and terminating execution model for Constraint Handling Rules. Ulmer Informatik Berichte 2010-01, Ulm University, Germany, January 2010.

[BRF10b]   Hariolf Betz, Frank Raiser, and Thom Frühwirth. A complete and terminating execution model for Constraint Handling Rules. In Hermenegildo and Schaub [HS10a], pages 597–610.

[BRF10c]   Hariolf Betz, Frank Raiser, and Thom Frühwirth. Persistent constraints in Constraint Handling Rules. In Wolf and Geske [WG10].

[BS03]   Steve Barker and Peter J. Stuckey. Flexible access control policy specification with constraint logic programming. *ACM Trans. Inf. Syst. Secur.*, 6(4):501–546, 2003.

[BT02]   Liviu Badea and Doina Tilivea. Intelligent information integration as a constraint handling problem. In *FQAS '02: Proc. 5th Intl. Conf. on Flexible Query Answer Systems*, volume 2522 of *LNCS*. Springer, October 2002.

[BTH04]   Liviu Badea, Doina Tilivea, and Anca Hotaran. Semantic Web Reasoning for Ontology-Based Integration of Resources. In *PP-SWR '04: Proc. second Intl. Workshop on Principles And Practice Of Semantic Web Reasoning*, volume 3208 of *LNCS*, pages 61–75. Springer, September 2004.

[Buc03]   F. Buccafurri, editor. *AGP '03: Joint Conf. Declarative Programming APPIA-GULP-PRODE*, September 2003.

[BZF12]   Alia El Bolock, Amira Zaki, and Thom Frühwirth. Substitution-based CHR solver for bivariate binomial equation sets. In Sneyers and Frühwirth [SF12], pages 41–50.

[CCKP06]   Wei-Ngan Chin, Florin Craciun, Siau-Cheng Khoo, and Corneliu Popeea. A flow-based approach for variant parametric types. *SIGPLAN Not.*, 41(10):273–290, 2006.

[CD03]   Henning Christiansen and Verónica Dahl. Logic grammars for diagnosis and repair. *Intl. J. Artificial Intelligence Tools*, 12(3):227–248, 2003.

[CD05a]   Henning Christiansen and Verónica Dahl. HYPROLOG: A new logic programming language with assumptions and abduction. In Gabbrielli and Gupta [GG05], pages 159–173.

[CD05b]   Henning Christiansen and Verónica Dahl. Meaning in context. In A. Dey, B. Kokinov, and R. Turner, editors, *CONTEXT '05: Proc. 4th Intl. and Interdisciplinary Conf. Modeling and Using Context*, volume 3554 of *LNAI*, pages 97–111. Springer, 2005.

[CE03]   Lledó Museros Cabedo and María Teresa Escrig. Modeling motion by the integration of topology and time. *J. UCS*, 9(9):1096–1122, 2003.

[CF03]   Emmanuel Coquery and François Fages. TCLP: A type checker for CLP($\mathcal{X}$). In F. Mesnard and A. Serebrenik, editors, *WLPE '03*, K.U.Leuven, Dept. Comp. Sc., Technical report CW 371, pages 17–30, 2003.

[CF05]   Emmanuel Coquery and François Fages. A type system for CHR. In Schrijvers and Frühwirth [SF05a], pages 19–33.

[CGRSP12]   Rafael Caballero, Yolanda Garcia-Ruiz, and Fernando Saenz-Perez. Debugging datalog programs through CHRs, 2012.

[CH07]   Henning Christiansen and Christian Theil Have. From use cases to UML class diagrams using logic grammars and constraints. In *RANLP '07: Proc. Intl. Conf. Recent Adv. Nat. Lang. Processing*, pages 128–132, September 2007.

[Che11]   J. Cheney. Satisfiability algorithms for conjunctive queries over trees. In *Proceedings of the 14th International Conference on Database Theory*, pages 150–161. ACM, 2011.

[CHLP10]   Henning Christiansen, Christian Theil Have, Ole Torp Lassen, and Matthieu Petit. The viterbi algorithm expressed in Constraint Handling Rules. In Van Weert and De Koninck [VWDK10].

[Chr04]   Henning Christiansen. Chr grammars with multiple constraint stores. In Frühwirth and Meister [FM04], pages 1–7.

[Chr05a]   Henning Christiansen. CHR grammars. In Abdennadher et al. [AFH05], pages 467–501.

[Chr05b]   Henning Christiansen. Experiences and directions for abduction and induction using Constraint Handling Rules. In *AIAI '05: Proc. Intl. Workshop on the Integration of Abduction and Induction in Artificial Intelligence*, July 2005. Position Paper.

[Chr05c]   Henning Christiansen. Reasoning about passive declarations in CHR. In Schrijvers and Frühwirth [SF05a], pages 93–108.

[Chr06]   Henning Christiansen. On the implementation of global abduction. In Katsumi Inoue, Ken Satoh, and Francesca Toni, editors, *CLIMA '06: 7th Intl. Workshop on Computational Logic in Multi-Agent Systems – Revised, Selected and Invited Papers*, volume 4371 of *LNCS*, pages 226–245. Springer, May 2006.

[Chr08a]   Henning Christiansen. Implementing probabilistic abductive logic programming with Constraint Handling Rules. In Schrijvers and Frühwirth [SF08a], pages 85–118.

[Chr08b]   Henning Christiansen. Prioritized abduction with CHR. In Schrijvers et al. [SRF08], pages 159–173.

[Chr09]   Henning Christiansen. Executable specifications for hypotheses-based reasoning with Prolog and Constraint Handling Rules. *J. of Applied Logic*, 7(3):341–362, September 2009.

[Chr12]   Henning Christiansen. An adaptation of Constraint Handling Rules for interactive and intelligent installations. In Sneyers and Frühwirth [SF12], pages 1–15.

[CHS$^+$11]   A.M. Cheadle, W. Harvey, A.J. Sadler, J. Schimpf, K. Shen, and M.G. Wallace. ECL^{i}PS^e: A tutorial introduction. 2011.

[CL11]   Henning Christiansen and Bo Li. Approaching the Chinese word segmentation problem with CHR grammars, September 2011.

[CLF12a]   Ruoyu Chen, Lejian Liao, and Zhi Fang. Contracting of web services with constraint handling rules. In *SERVICES* [DBL12], pages 211–218.

[CLF12b]   Ruoyu Chen, Lejian Liao, and Zhi Fang. A virtual organization model based on semantic web services and its application in supply chain for agricultural product. *Advances in Control and Communication*, 2012.

[CLFne]   Ruoyu Chen, Lejian Liao, and Zhi Fang. Contracting of web services with constraint handling rules. In *Services (SERVICES), 2012 IEEE Eighth World Congress on*, pages 211–218, June.

[CM00]   Henning Christiansen and Davide Martinenghi. Symbolic constraints for meta-logic programming. In Holzbaur and Frühwirth [HF00a], pages 345–367.

[CS11]   Henning Christiansen and Amr Hany Saleh. Modeling dependent events with chrism for probabilistic abduction. In Sneyers [Sne11], pages 48–63.

[CS13]   Henning Christiansen and Jon Sneyers, editors. *CHR '13: Proc. 10th Workshop on Constraint Handling Rules*. K.U.Leuven, Dept. Comp. Sc., Technical report CW 641, July 2013.

[CSW03]   Wei-Ngan Chin, Martin Sulzmann, and Meng Wang. A type-safe embedding of Constraint Handling Rules into Haskell. Honors thesis, School of Computing, National University of Singapore, 2003.

[CZS11]   János Csorba, Zsolt Zombori, and Péter Szeredi. Using constraint handling rules to provide static type analysis for the Q functional language. *CoRR*, abs/1112.3784, 2011.

[CZS12]   János Csorba, Zsolt Zombori, and Péter Szeredi. Pros and cons of using CHR for type inference. In Sneyers and Frühwirth [SF12], pages 16–31.

[Dah04]   Verónica Dahl. An abductive treatment of long distance dependencies in CHR. In *CSLP '04: Proc. First Intl. Workshop on Constraint Solving and Language Processing*, volume 3438 of *LNCS*, pages 17–31. Springer, 2004. Invited Paper.

[Dah11a]   Verónica Dahl. Chr for spoken and other biological languages. In Sneyers [Sne11], pages 4–18. Invited talk.

[Dah11b]   Veronica Dahl. Informing datalog through language intelligence - a personal perspective. In Oege de Moor, Georg Gottlob, Tim Furche, and Andrew Sellers, editors, *Datalog Reloaded*, volume 6702 of *Lecture Notes in Computer Science*, pages 161–180. Springer Berlin / Heidelberg, 2011.

[DB05]   Verónica Dahl and Philippe Blache. Extracting selected phrases through constraint satisfaction. In *Proc. 2nd Intl. Workshop on Constraint Solving and Language Processing*, October 2005.

[DBD+11]   Krishna S. R. Dubba, Mehul Bhatt, Frank Dylla, David C. Hogg, and Anthony G. Cohn. Interleaved inductive-abductive reasoning for learning complex event models. In Muggleton et al. [MTNL12], pages 113–129.

[DBL12]   *Eighth IEEE World Congress on Services, SERVICES 2012, Honolulu, HI, USA, June 24-29, 2012*. IEEE, 2012.

[dBWvG+12] Viktor de Boer, Jan Wielemaker, Judith van Gent, Michiel Hildebrand, Antoine Isaac, Jacco van Ossenbruggen, and Guus Schreiber. Supporting linked data production for cultural heritage institutes: The amsterdam museum case study. In Simperl et al. [SCP+12], pages 733–747.

[DCMM12]   Veronica Dahl, Bradley Coleman, J. Emilio Miralles, and Erez Maharshak. CHR for Social Responsibility. In Agostino Dovier and Vítor Santos Costa, editors, *Technical Communications of the 28th International Conference on Logic Programming (ICLP'12)*, volume 17 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 370–380, Dagstuhl, Germany, 2012. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.

[DDF07]   Khalil Djelloul, Thi-Bich-Hanh Dao, and Thom Frühwirth. Toward a first-order extension of Prolog's unification using CHR: a CHR first-order constraint solver over finite or infinite trees. In *SAC '07: Proc. 2007 ACM Symp. Applied computing*, pages 58–64. ACM Press, 2007.

[DDS07]   K. Djelloul, G. J. Duck, and M. Sulzmann, editors. *CHR '07: Proc. 4th Workshop on Constraint Handling Rules*, September 2007.

[DEMM13]   Veronica Dahl, Sinan Egilmez, Joao Martins, and Emilio Miralles. On failure-driven constraint-based parsing through CHRG. In Christiansen and Sneyers [CS13], pages 13–24.

[Der10]   P. Deransart. Conception de traces et applications (vers une méta-théorie des traces)document de travail8 février 2010. 2010.

[DG06]   Verónica Dahl and Baohua Gu. Semantic property grammars for knowledge extraction from biomedical text. In Etalle and Truszczynski [ET06], pages 442–443. Poster Paper.

[DG07]   Verónica Dahl and Baohua Gu. A CHRG analysis of ambiguity in biological texts. In *CSLP '07: Proc. 4th Intl. Workshop on Constraints and Language Processing*, August 2007. Extended Abstract.

[DG09]   Cinzia Di Giusto. *Expressiveness of Concurrent Languages*. PhD thesis, Dept. Comp. Sc., University of Bologna, Italy, March 2009.

[DGGM09]   Cinzia Di Giusto, Maurizio Gabbrielli, and Maria Chiara Meo. Expressiveness of multiple heads in CHR. In *SOFSEM '09: Proc. 35th Conf. Current Trends in Theory and Practice of Comp. Science*, LNCS, pages 205–216. Springer, 2009.

[DGM05]   Giorgio Delzanno, Maurizio Gabbrielli, and Maria Chiara Meo. A compositional semantics for CHR. In Barahona and Felty [BF05a], pages 209–217.

[DGM09]   Verónica Dahl, Baohua Gu, and Erez Maharshak. A hyprolog parsing methodology for property grammars. In *IWANN '09: Proc. 10th Intl. Workshop on Artif. Neural Networks*, volume 5517 of *LNCS*, pages 480–487. Springer, 2009.

[DJK11]   Gregory J. Duck, Joxan Jaffar, and Nicolas Koh. A symbolic execution framework with explicit heaps and separation. 2011.

[DJK13]   Gregory J. Duck, Joxan Jaffar, and Nicolas C. H. Koh. Constraint-based program reasoning with heaps and separation. In Schulte [Sch13], pages 282–298.

[DJLP10a]   V. Dahl, M. Jiménez-López, and O. Perriquet. Poetic rna: Adapting rna design methods to the analysis of poetry. *Trends in Practical Applications of Agents and Multiagent Systems*, pages 403–410, 2010.

[DJLP10b]   Verónica Dahl, M. Dolores Jiménez-López, and Olivier Perriquet. Poetic RNA: Adapting RNA design methods to the analysis of poetry. In *Proc. 8th Intl. Conf. Practical Applications of Agents and Multiagent Systems*, volume 71 of *Advances in Soft Computing*, pages 403–410. Springer, April 2010.

[DK08]   Leslie De Koninck. *Execution Control for Constraint Handling Rules*. PhD thesis, K.U.Leuven, Belgium, November 2008.

[DK09a]   Leslie De Koninck. Execution control for Constraint Handling Rules – PhD summary. In Hill and Warren [HW09], pages 479–483.

[DK09b]   Leslie De Koninck. Logical Algorithms meets CHR: A meta-complexity result for Constraint Handling Rules with rule priorities. *TPLP*, 9(2):165–212, March 2009.

[DKS07]   Leslie De Koninck and Jon Sneyers. Join ordering for Constraint Handling Rules. In Djelloul et al. [DDS07], pages 107–121.

[DKS08]   Gregory J. Duck, Leslie De Koninck, and Peter J. Stuckey. Cadmium: An implementation of ACD term rewriting. In García de la Banda and Pontelli [GdlBP08], pages 531–545.

[DKSD06a]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. INCLP($\mathbb{R}$) - Interval-based nonlinear constraint logic programming over the reals. In Fink et al. [FTW06], pages 91–100.

[DKSD06b]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. Search strategies in CHR(Prolog). In Schrijvers and Frühwirth [SF06a], pages 109–124.

[DKSD07a]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. Chr^{rp}: Constraint Handling Rules with rule priorties. Technical Report CW 479, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, March 2007.

[DKSD07b]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. The correspondence between the Logical Algorithms language and CHR. In Dahl and Niemelä [DN07], pages 209–223.

[DKSD07c]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. The correspondence between the Logical Algorithms language and CHR. Technical Report CW 480, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, March 2007.

[DKSD07d]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. User-definable rule priorities for CHR. In Leuschel and Podelski [LP07], pages 25–36.

[DKSD07e]   Leslie De Koninck, Peter J. Stuckey, and Gregory J. Duck. Optimized compilation of chr^{rp}. Technical Report CW 499, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, August 2007.

[DKSD08a]   Leslie De Koninck, Tom Schrijvers, and Bart Demoen. A flexible search framework for CHR. In Schrijvers and Frühwirth [SF08a], pages 16–47.

[DKSD08b]   Leslie De Koninck, Peter J. Stuckey, and Gregory J. Duck. Optimizing compilation of CHR with rule priorities. In J. Garrigue and M. Hermenegildo, editors, *Proc. 9th Intl. Symp. Functional and Logic Programming*, volume 4989 of *LNCS*, pages 32–47. Springer, April 2008.

[DL04]   B. Demoen and V. Lifschitz, editors. *ICLP '04: Proc. 20th Intl. Conf. Logic Programming*, volume 3132 of *LNCS*. Springer, September 2004.

[DM09]   Verónica Dahl and Erez Maharshak. DNA replication as a model for computational linguistics. In *IWINAC '09: Proc. Third Intl. Work-Conf. on the Interplay Between Natural and Artificial Computation*, LNCS, pages 346–355. Springer, 2009.

[DM12]   Veronica Dahl and Juan Emilio Miralles. Womb grammars: Constraint solving for grammar induction. In Sneyers and Frühwirth [SF12], pages 32–40.

[DMBB12]   Veronica Dahl, Emilio Miralles, and Leonor Becerra-Bonache. On Language Acquisition through Womb Grammars. In *Proceedings of the 7th International Workshop on Constraint Solving and Language Processing*, pages 99–105, France, 2012.

[DN07]   V. Dahl and I. Niemelä, editors. *ICLP '07: Proc. 23rd Intl. Conf. Logic Programming*, volume 4670 of *LNCS*. Springer, September 2007.

[DO10]   Pierre Deransart and Rafael Oliveira. Towards a generic framework to generate explanatory traces of constraint solving and rule-based reasoning. Technical Report 7165, INRIA, Paris – Rocquenfourt, December 2010.

[Don93]   G. Dondosolla. A constraint-based implementation of the GRF. ESPRIT project no. 2409 EQUATOR report, 1993.

[DPJSS04]   Gregory J. Duck, Simon Peyton-Jones, Peter J. Stuckey, and
             Martin Sulzmann. Sound and decidable type inference for func-
             tional dependencies. In D. A. Schmidt, editor, *ESOP '04: Proc.
             13th European Symp. on Programming*, volume 2986 of *LNCS*,
             pages 49–63. Springer, March/April 2004.

[DR11]   Marcel Dausend and Frank Raiser. Model transformation using
             constraint handling rules as a basis for model interpretation. In
             Sneyers [Sne11], pages 64–78.

[DS01]   R. De Nicola and H. Søndergaard, editors. *PPDP '01: Proc.
             3rd Intl. Conf. Princ. Pract. Declarative Programming*. ACM
             Press, September 2001.

[DS05]   Gregory J. Duck and Tom Schrijvers. Accurate functional de-
             pendency analysis for Constraint Handling Rules. In Schrijvers
             and Frühwirth [SF05a], pages 109–124.

[DSB06]   Gregory J. Duck, Peter J. Stuckey, and Sebastian Brand. ACD
             term rewriting. In Etalle and Truszczynski [ET06], pages 117–
             131.

[DSG04]   Gregory J. Duck, Peter J. Stuckey, and María García de la
             Banda. Compiling ask constraints. In Demoen and Lifschitz
             [DL04], pages 105–119.

[DSGH03]   Gregory J. Duck, Peter J. Stuckey, María García de la Banda,
             and Christian Holzbaur. Extending arbitrary solvers with Con-
             straint Handling Rules. In *PPDP '03*, pages 79–90. ACM Press,
             2003.

[DSGH04]   Gregory J. Duck, Peter J. Stuckey, María García de la Banda,
             and Christian Holzbaur. The refined operational semantics of
             Constraint Handling Rules. In Demoen and Lifschitz [DL04],
             pages 90–104.

[DSS06]   Gregory J. Duck, Peter J. Stuckey, and Martin Sulzmann. Ob-
             servable confluence for Constraint Handling Rules. In Schrijvers
             and Frühwirth [SF06a], pages 61–76.

[DSS07]   Gregory J. Duck, Peter J. Stuckey, and Martin Sulzmann. Ob-
             servable confluence for Constraint Handling Rules. In Dahl and
             Niemelä [DN07], pages 224–239.

[DSV09]   François Degrave, Tom Schrijvers, and Wim Vanhoof. Auto-
             matic generation of test inputs for mercury. In Hanus [Han09].

[DTBHF08]   Khalil Djelloul, Dao Thi-Bich-Hanh, and Thom Frühwirth. The-
             ory of finite or infinite trees revisited. *TPLP*, 8(4):431–489,
             2008.

[Duc99]   Mireille Ducassé. Opium: an extendable trace analyzer for Pro-
             log. *J. Logic Programming*, 39(1–3):177–223, 1999.

[Duc05]   Gregory J. Duck. *Compilation of Constraint Handling Rules*.
             PhD thesis, University of Melbourne, Australia, December 2005.

[Duc12]   Gregory J. Duck. Smchr: Satisfiability modulo constraint han-
             dling rules. *CoRR*, abs/1210.5307, 2012.

[DV04]   Verónica Dahl and Kimberly Voll. Concept formation rules:
             An executable cognitive model of knowledge construction. In
             *NLUCS '04: Proc. First Intl. Workshop on Natural Language
             Understanding and Cognitive Sciences*, April 2004.

[DvdGHS07]   Atze Dijkstra, Gerrit van den Geest, Bastiaan Heeren, and
             S. Doaitse Swierstra. Modelling scoped instances with con-
             straint handling rules. Rejected by ICFP '07, 2007.

[dWv⁺12]   Victor de Boer, Jan Wielemaker, Judith van Gent, Michiel
             Hildebrand, Antoine Isaac, Jacco van Ossenbruggen, and Guus
             Schreiber. Supporting linked data production for cultural her-
             itage institutes: The Amsterdam museum case study. In *9th
             Extended Semantic Web Conference (ESWC 2012)*, May 2012.

[EMTL96]   María Teresa Escrig Monferrer and Francisco Toledo Lobo. En-
             hancing qualitative relative orientation with qualitative distance
             for robot path planning. In *ICTAI '96: Proc. 8th IEEE Intl.
             Conf. Tools with Artif. Intell.*, pages 174–182. IEEE Computer
             Society, November 1996.

[EMTL98]   María Teresa Escrig Monferrer and Francisco Toledo Lobo.
             *Qualitative Spatial Reasoning: Theory and Practice — Appli-
             cation to Robot Navigation*. IOS Press, 1998.

[ET98]   María Teresa Escrig and Francisco Toledo. A framework based
             on CLP extended with CHRs for reasoning with qualitative ori-
             entation and positional information. *J. Visual Languages and
             Computing*, 9(1):81–101, 1998.

[ET00]   María Teresa Escrig and Francisco Toledo. Autonomous robot
             navigation using human spatial concepts. *Intl. Journal on In-
             telligent Systems*, 15(3):165–196, February 2000.

[ET06]   S. Etalle and M. Truszczynski, editors. *ICLP '06: Proc. 22nd
             Intl. Conf. Logic Programming*, volume 4079 of *LNCS*. Springer,
             August 2006.

[F⁺00a]   T. Frühwirth et al., editors. *RCoRP '00: Proc. 1st Workshop on
             Rule-Based Constraint Reasoning and Programming*, July 2000.

[F⁺00b]   T. Frühwirth et al., editors. *RCoRP '00(bis): Proc. 2nd Work-shop on Rule-Based Constraint Reasoning and Programming*, September 2000.

[FA01]   Thom Frühwirth and Slim Abdennadher. The Munich rent advisor: A success for logic programming on the internet. *TPLP*, 1(3):303–319, 2001.

[FA03]   Thom Frühwirth and Slim Abdennadher. *Essentials of Constraint Programming*. Springer, 2003.

[Fal10]   M. Falda. Spatial reasoning with integrated qualitative-metric fuzzy constraint networks. *Journal of Universal Computer Science*, 16(11):1390–1409, 2010.

[FB95]   Thom Frühwirth and Pascal Brisset. High-level implementations of Constraint Handling Rules. Technical Report ECRC-95-20, European Computer-Industry Research Centre, Munchen, Germany, 1995.

[FB98]   Thom Frühwirth and Pascal Brisset. Optimal placement of base stations in wireless indoor telecommunication. In Maher and Puget [MP98], pages 476–480.

[FB00]   Thom Frühwirth and Pascal Brisset. Placing base stations in wireless indoor communication networks. *IEEE Intelligent Systems and Their Applications*, 15(1):49–53, 2000.

[FBM96]   Thom Frühwirth, Pascal Brisset, and Jörq-Rainer Molwitz. Planning cordless business communication systems. *IEEE Intelligent Systems*, 11(1):50–55, 1996.

[FDPW02]   Thom Frühwirth, Alessandra Di Pierro, and Herbert Wiklicky. Probabilistic Constraint Handling Rules. In M. Comini and M. Falaschi, editors, *WFLP '02: Proc. 11th Intl. Workshop on Functional and (Constraint) Logic Programming, Selected Papers*, volume 76 of *ENTCS*. Elsevier, June 2002.

[Fer10]   M. Fernández, editor. *PPDP '10: Proc. 12th Intl. Conf. Princ. Pract. Declarative Programming*. ACM Press, July 2010.

[FH95]   Thom Frühwirth and Philipp Hanschke. Terminological reasoning with Constraint Handling Rules. In V. Saraswat and P. Van Hentenryck, editors, *Principles and Practice of Constraint Programming*, chapter 19. MIT Press, 1995.

[FH03]   Thom Frühwirth and Christian Holzbaur. Source-to-source transformation for a class of expressive rules. In Buccafurri [Buc03], pages 386–397.

17

[FH04]   Antonio J. Fernández and Patricia M. Hill. An interval constraint system for lattice domains. *ACM Trans. Program. Lang. Syst.*, 26(1):1–46, 2004.

[FHS10]   Andreas Falkner, Alois Haselböck, and Gottfried Schenner. Modeling technical product configuration problems. In Lothar Hotz and Alois Haselböck, editors, *Workshop on Configuration at 19th European Conference on Artificial Intelligence ECAI 2010*, August 2010.

[Fir03]   Aykut Firat. *Information Integration Using Contextual Knowledge and Ontology Merging*. PhD thesis, MIT Sloan School of Management, Cambridge, Massachusetts, USA, September 2003.

[Fla11]   Gregory M. Flanagan. Conceptual requirement validation for architecture design systems. Master's thesis, California Polytechnic State University, San Luis Obispo, September 2011.

[FM04]   Th. Frühwirth and M. Meister, editors. *CHR '04: 1st Workshop on Constraint Handling Rules: Selected Contributions*, May 2004.

[FMdORM08]   François Fages, Cleyton Mário de Oliveira Rodrigues, and Thierry Martinez. Modular CHR with *ask* and *tell*. In Schrijvers et al. [SRF08], pages 95–110.

[FMG02]   Aykut Firat, Stuart Madnick, and Benjamin Grosof. Financial information integration in the presence of equational ontological conflicts. In *Proc. 12th Workshop Information Technologies and Systems*, 2002.

[FR11]   Thom Frühwirth and Frank Raiser, editors. *Constraint Handling Rules: Compilation, Execution, and Analysis*. March 2011.

[Frü91]   Thom Frühwirth. Introducing simplification rules. Technical Report ECRC-LP-63, European Computer-Industry Research Centre, Munchen, Germany, October 1991. Presented at the Workshop Logisches Programmieren, Goosen/Berlin, Germany, October 1991 and the Workshop on Rewriting and Constraints, Dagstuhl, Germany, October 1991.

[Frü92]   Thom Frühwirth. Constraint simplification rules. Technical Report ECRC-92-18, European Computer-Industry Research Centre, Munchen, Germany, July 1992.

[Frü93]   Thom Frühwirth. Entailment simplification and constraint constructors for user-defined constraints. In *WCLP '93: 3rd Workshop on Constraint Logic Programming*, March 1993.

[Frü94]   Thom Frühwirth. Temporal reasoning with Constraint Handling Rules. Technical Report ECRC-94-5, European Computer-Industry Research Centre, Munchen, Germany, 1994.

[Frü95]   Thom Frühwirth. Constraint Handling Rules. In A. Podelski, editor, *Constraint Programming: Basic and Trends — Selected Papers of the 22nd Spring School in Theoretical Computer Sciences, May 16–20, 1994*, volume 910 of *LNCS*, pages 90–107. Springer, 1995.

[Frü97]   Thom Frühwirth. *A Declarative Language for Constraint Systems: Theory and Practice of Constraint Handling Rules*. Habilitationsschrift, Dept. Comp. Sc., LMU, Munchen, Germany, December 1997.

[Frü98]   Thom Frühwirth. Theory and practice of Constraint Handling Rules. *J. Logic Programming, Special Issue on Constraint Logic Programming*, 37(1–3):95–138, 1998.

[Frü00]   Thom Frühwirth. Proving termination of constraint solver programs. In Apt et al. [AKMR00], pages 298–317.

[Frü01]   Thom Frühwirth. On the number of rule applications in constraint programs. In A. Dovier, M. Chiara Meo, and A. Omicini, editors, *Declarative Programming - Selected Papers from AGP 2000*, volume 48 of *ENTCS*, pages 147–166. Elsevier, June 2001.

[Frü02a]   Thom Frühwirth. As time goes by: Automatic complexity analysis of simplification rules. In D. Fensel, F. Giunchiglia, D. McGuinness, and M.-A. Williams, editors, *KR '02: Proc. 8th Intl. Conf. Princ. Knowledge Representation and Reasoning*, pages 547–557. Morgan Kaufmann, April 2002.

[Frü02b]   Thom Frühwirth. As time goes by II: More automatic complexity analysis of concurrent rule programs. In A. Di Pierro and H. Wiklicky, editors, *QAPL '01: Proc. First Intl. Workshop on Quantitative Aspects of Programming Languages*, volume 59(3) of *ENTCS*. Elsevier, 2002.

[Frü05a]   Thom Frühwirth. Logical rules for a lexicographic order constraint solver. In Schrijvers and Frühwirth [SF05a], pages 79–91.

[Frü05b]   Thom Frühwirth. Parallelizing union-find in Constraint Handling Rules using confluence. In Gabbrielli and Gupta [GG05], pages 113–127.

[Frü05c]   Thom Frühwirth. Specialization of concurrent guarded multi-set transformation rules. In S. Etalle, editor, *LOPSTR '04*, volume 3573 of *LNCS*, pages 133–148. Springer, 2005.

[Frü06a]   Thom Frühwirth. Complete propagation rules for lexicographic order constraints over arbitrary domains. In *Recent Advances in Constraints — CSCLP '05: Joint ERCIM/CoLogNET Intl. Workshop on Constraint Solving and CLP, Revised Selected and Invited Papers*, volume 3978 of *LNAI*. Springer, 2006.

[Frü06b]   Thom Frühwirth. Constraint Handling Rules: the story so far. In Bossi and Maher [BM06], pages 13–14.

[Frü06c]   Thom Frühwirth. Deriving linear-time algorithms from union-find in CHR. In Schrijvers and Frühwirth [SF06a], pages 49–60.

[Frü07]   Thom Frühwirth. Description logic and rules the CHR way. In Djelloul et al. [DDS07], pages 49–61. Extended Abstract.

[Frü08a]   Thom Frühwirth. Quasi-linear-time algorithms by generalisation of union-find in CHR. In *Recent Advances in Constraints — CSCLP '07: 12th ERCIM Intl. Workshop on Constraint Solving and Constraint Logic Programming, Revised Selected Papers*, pages 91–118, November 2008.

[Frü08b]   Thom Frühwirth. Welcome to Constraint Handling Rules. In Schrijvers and Frühwirth [SF08a], pages 1–15.

[Frü09a]   Thom Frühwirth. *Constraint Handling Rules*. Cambridge University Press, August 2009.

[Frü09b]   Thom Frühwirth. First steps towards a lingua franca for computer science: Rule-based approaches in CHR. In Raiser and Sneyers [RS09], page 1. Invited talk.

[FTW06]   M. Fink, H. Tompits, and S. Woltran, editors. *WLP '06: Proc. 20th Workshop on Logic Programming*, T.U.Wien, Austria, IN-FSYS Research report 1843-06-02, February 2006.

[GAAdSDR11] Armando Gonçalves, Marcos Aurélio Almeida da Silva, Pierre Deransart, and Jacques Robin. Towards a generic trace for rule based constraint reasoning. In Sneyers [Sne11], pages 32–47.

[GAL08]   Marco Gavanelli, Marco Alberti, and Evelina Lamma. Integrating abduction and constraint optimization in Constraint Handling Rules. In *ECAI 2008: 18th European Conf. on Artif. Intell.*, pages 903–904. IOS press, July 2008.

[GAL09]   Marco Gavanelli, Marco Alberti, and Evelina Lamma. Integration of abductive reasoning and constraint optimization in SCIFF. In Hill and Warren [HW09], pages 387–401.

[GdlBP08]   M. García de la Banda and E. Pontelli, editors. *ICLP '08: Proc. 24rd Intl. Conf. Logic Programming*, volume 5366 of *LNCS*. Springer, December 2008.

[Ger10]   Ralf Gerlich. Generic and extensible Automatic Test Data Generation for safety critical software with CHR. In Van Weert and De Koninck [VWDK10].

[GG05]   M. Gabbrielli and G. Gupta, editors. *ICLP '05: Proc. 21st Intl. Conf. Logic Programming*, volume 3668 of *LNCS*. Springer, October 2005.

[GG06]   Sandrine-Dominique Gouraud and Arnaud Gotlieb. Using CHRs to generate functional test cases for the Java card virtual machine. In P. Van Hentenryck, editor, *PADL '06: Proc. 8th Intl. Symp. Practical Aspects of Declarative Languages*, volume 3819 of *LNCS*, pages 1–15. Springer, January 2006.

[GG11a]   John Gallagher and Michael Gelfond, editors. *ICLP '11: Proc. 27th Intl. Conf. Logic Programming*, volume 11(4–5) of *TPLP*. Cambridge University Press, July 2011.

[GG11b]   John Gallagher and Michael Gelfond, editors. *Technical Communications of the 27th Intl. Conf. on Logic Programming*, volume 11 of *Leibniz Intl. Proc. in Informatics (LIPIcs)*, Dagstuhl, Germany, July 2011. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.

[GLM$^+$03]   Marco Gavanelli, Evelina Lamma, Paola Mello, Michela Milano, and Paolo Torroni. Interpreting abduction in CLP. In Buccafurri [Buc03], pages 25–35.

[GM02]   Harald Ganzinger and David A. McAllester. Logical algorithms. In Stuckey [Stu02], pages 209–223.

[GM09]   Maurizio Gabbrielli and Maria Chiara Meo. A compositional semantics for CHR. *ACM TOCL*, 10(2):1–36, February 2009.

[GMM09a]   Maurizio Gabbrielli, Maria Chiara Meo, and Jacopo Mauro. On the expressive power of priorities in CHR. In López-Fraguas [LF09], pages 267–276.

[GMM$^+$09b] T. Gannon, S. Madnick, A. Moulton, M. Siegel, M. Sabbouh, and Hongwei Zhu. Framework for the analysis of the adaptability, extensibility, and scalability of semantic information integration and the context mediation approach. In *IEEE 42nd Hawaii International Conference on System Sciences (HICSS '09)*, pages 1– 11, January 2009.

[GMM13]   Maurizio Gabbrielli, Jacopo Mauro, and Maria Chiara Meo. The expressive power of chr with priorities. *Inf. Comput.*, 228:62–82, 2013.

[GMMS10]   Maurizio Gabbrielli, Jacopo Mauro, Maria Chiara Meo, and Jon Sneyers. Decidability properties for fragments of CHR. In Hermenegildo and Schaub [HS10a], pages 611–626.

[GMT06]   Maurizio Gabbrielli, Maria Chiara Meo, and Paolo Tacchella. A compositional semantics for CHR with propagation rules. In Schrijvers and Frühwirth [SF06a], pages 93–107.

[GMT08]   Maurizio Gabbrielli, Maria Chiara Meo, and Paolo Tacchella. A compositional semantics for CHR with propagation rules. In Schrijvers and Frühwirth [SF08a], pages 119–160.

[GMTW]   Maurizio Gabbrielli, Maria Chiara Meo, Paolo Tacchella, and Herbert Wiklicky. Unfolding for CHR programs. *TPLP*. To appear.

[GR10]   M. Gavanelli and F. Rossi. Constraint logic programming. *A 25-year perspective on logic programming*, pages 64–86, 2010.

[GRSF10]   Florian Geiselhart, Frank Raiser, Jon Sneyers, and Thom Frühwirth. MTSeq – multi-touch-enabled music generation and manipulation based on CHR. In Van Weert and De Koninck [VWDK10].

[Gup13]   Gopal Gupta, editor. *LOPSTR '13: 23rd Intl. Symp. Logic-Based Program Synthesis and Transformation, Pre-Proceedings*, 2013.

[GvH01]   Joost Geurts, Jacco van Ossenbruggen, and Lynda Hardman. Application-specific constraints for multimedia presentation generation. In *MMM '01: Proc. 8th Intl. Conf. on Multimedia Modeling*, pages 247–266, November 2001.

[GW02]   Diego Garat and Dina Wonsever. A constraint parser for contextual rules. In *Proc. 22nd Intl. Conf. of the Chilean Computer Science Society*, pages 234–242. IEEE Computer Society, November 2002.

[Hae11a]   Rémy Haemmerlé. (Co-)Inductive semantics for Constraint Handling Rules. In Gallagher and Gelfond [GG11a], pages 593–609.

[Hae11b]   Rémy Haemmerlé. Observational equivalences for linear logic concurrent constraint languages. In Gallagher and Gelfond [GG11a], pages 469–485.

[Hae12a]   Rémy Haemmerlé. Coinductive proof over streams as CHR confluence proofs. In Sneyers and Frühwirth [SF12], pages 51–65.

[Hae12b]   Rémy Haemmerlé. Diagrammatic confluence for constraint han-
            dling rules. *TPLP*, 12(4-5):737–753, September 2012.

[Han02]   M. Hanus, editor. *WFLP '01: Proc. 10th Intl. Workshop on
            Functional and (Constraint) Logic Programming, Selected Pa-
            pers*, volume 64 of *ENTCS*. Elsevier, November 2002.

[Han06]   Michael Hanus. Adding Constraint Handling Rules to Curry.
            In Fink et al. [FTW06], pages 81–90.

[Han08]   M. Hanus, editor. *LOPSTR '08: 18th Intl. Symp. Logic-Based
            Program Synthesis and Transformation, Pre-Proceedings*, 2008.

[Han09]   M. Hanus, editor. *LOPSTR '08: 18th Intl. Symp. Logic-Based
            Program Synthesis and Transformation, Revised Selected Pa-
            pers*, volume 5438 of *LNCS*. Springer, 2009.

[Han11]   Michael Hanus, editor. *PPDP '11: Proc. 13th Intl. Conf. Princ.
            Pract. Declarative Programming*. ACM Press, July 2011.

[Hav11]   Christian Theil Have. Constraints and global optimization for
            gene prediction overlap resolution. In Alessandro Dal Palù,
            Agostino Dovier, and Andrea Formisano, editors, *WCB'11:
            Workshop on Constraint Based Methods for Bioinformatics*,
            pages 17–26, September 2011.

[HB08]   Rémy Haemmerlé and Hariolf Betz. Verification of Constraint
            Handling Rules using linear logic phase semantics. In Schrijvers
            et al. [SRF08], pages 67–78.

[HF98]   Christian Holzbaur and Thom Frühwirth. Constraint Handling
            Rules reference manual, release 2.2. Technical Report TR-98-01,
            Österreichisches Forschungsinstitut für Artificial Intelligence,
            Wien, 1998.

[HF99]   Christian Holzbaur and Thom Frühwirth. Compiling Constraint
            Handling Rules into Prolog with attributed variables. In G. Na-
            dathur, editor, *PPDP '99*, volume 1702 of *LNCS*, pages 117–133.
            Springer, 1999.

[HF00a]   C. Holzbaur and Th. Frühwirth, editors. *Special Issue on Con-
            straint Handling Rules*, volume 14(4) of *Journal of Applied Ar-
            tificial Intelligence*. Taylor & Francis, April 2000.

[HF00b]   Christian Holzbaur and Thom Frühwirth. A Prolog Constraint
            Handling Rules compiler and runtime system. In Holzbaur and
            Frühwirth [HF00a], pages 369–388.

[HF00c]   Christian Holzbaur and Thom Frühwirth. Selected recent
            project descriptions involving CHR. In Holzbaur and Frühwirth
            [HF00a], pages 417–420.

[HF07]   Rémy Haemmerlé and François Fages. Abstract critical pairs and confluence of arbitrary binary relations. In *RTA '07: Proc. 18th Intl. Conf. Term Rewriting and Applications*, volume 4533 of *LNCS*. Springer, June 2007.

[HGSD05]   Christian Holzbaur, María García de la Banda, Peter J. Stuckey, and Gregory J. Duck. Optimizing compilation of Constraint Handling Rules in HAL. In Abdennadher et al. [AFH05], pages 503–531.

[HLGH11]   R. Haemmerlé, P. Lopez-Garcia, and M.V. Hermenegildo. Clp projection for constraint handling rules. In Hanus [Han11], pages 137–148.

[HNP02]   Thomas Hecksher, Sune T.B. Nielsen, and Alexis Pigeon. A CHRG model of the ancient Egyptian grammar. Unpublished student project report, Roskilde University, Denmark, December 2002.

[HS10a]   Manuel Hermenegildo and Torsten Schaub, editors. *ICLP '10: Proc. 26th Intl. Conf. Logic Programming*, volume 10(4–6) of *TPLP*. Cambridge University Press, July 2010.

[HS10b]   Manuel Hermenegildo and Torsten Schaub, editors. *Technical Communications of the 26th Intl. Conf. on Logic Programming*, volume 7 of *Leibniz Intl. Proc. in Informatics (LIPIcs)*, Dagstuhl, Germany, July 2010. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.

[HW09]   Patricia M. Hill and David S. Warren, editors. *ICLP '09: Proc. 25th Intl. Conf. Logic Programming*, volume 5649 of *LNCS*. Springer, July 2009.

[Iva13]   Dragan Ivanovic. Implementing constraint handling rules as a domain-specific language embedded in Java. *CoRR*, abs/1308.3939, 2013.

[Jaf99]   J. Jaffar, editor. *CP '99: Proc. 5th Intl. Conf. Princ. Pract. Constraint Programming*, volume 1713 of *LNCS*. Springer, October 1999.

[JLF10]   G. Jerke, J. Lienig, and J.B. Freuer. Constraint-driven design methodology: A path to analog design automation. *Analog Layout Synthesis: A Survey of Topological Approaches*, page 269, 2010.

[Jon11]   T.W.D. Jongstra. Inequality reasoning for qualitative models using constraint handling rules. Bachelor thesis, University of Amsterdam, December 2011.

[JS]   Thom W. Frühwirth Jon Sneyers, Danny De Schreye.

[Kin08]   A. King, editor. *LOPSTR '07: 17th Intl. Symp. Logic-Based Program Synthesis and Transformation, Revised Selected Papers*, volume 4915 of *LNCS*, 2008.

[KM06]   Martin Kaeser and Marc Meister. Implementation of an F-Logic kernel in CHR. In Schrijvers and Frühwirth [SF06a], pages 33–47.

[Kob06]   N. Kobayashi, editor. *APLAS '06: Proc. 4th Asian Symp. on Programming Languages and Systems*, volume 4279 of *LNCS*. Springer, November 2006.

[Kos06a]   Nikolai Kosmatov. A constraint solver for sequences and its applications. In *Proc. 2006 ACM Symp. on Applied Computing*, pages 404–408. ACM Press, 2006.

[Kos06b]   Nikolai Kosmatov. Constraint solving for sequences in software validation and verification. In *INAP '05: Proc. 16th Intl. Conf. Applications of Declarative Programming and Knowledge Management*, volume 4369 of *LNCS*, pages 25–37. Springer, 2006.

[Kos09]   Adrian Kostrubiak. Integration of Java generics into the `jmle` tool within the Eclipse IDE. Honors thesis, Dickinson College, 2009.

[Krä01]   Ekkehard Krämer. A generic search engine for a Java Constraint Kit. Diplomarbeit, Institute of Computer Science, LMU, Munich, Germany, January 2001.

[KW07]   Ben Krause and Tim Wahls. jmle: A tool for executing jml specifications via constraint programming. In *Formal Methods: Applications and Technology*, volume 4346 of *LNCS*, pages 293–296. Springer, 2007.

[Lam11]   Edmund Soon Lee Lam. *Parallel execution of Constraint Handling Rules – Theory, Implementation and Application*. PhD thesis, School of Computing, Department of Computing Science, National University of Singapore, 2011.

[LF09]   F.J. López-Fraguas, editor. *PPDP '09: Proc. 11th Intl. Conf. Princ. Pract. Declarative Programming*. ACM Press, September 2009.

[LP00]   Heiko Lötzbeyer and Alexander Pretschner. AutoFocus on constraint logic programming. In *LPSE '00: Proc. Intl. Workshop on (Constraint) Logic Programming and Software Engineering*, July 2000.

[LP07]   M. Leuschel and A. Podelski, editors. *PPDP '07: Proc. 9th Intl. Conf. Princ. Pract. Declarative Programming*. ACM Press, July 2007.

[LRF10]   Johannes Langbein, Frank Raiser, and Thom Frühwirth. A state equivalence and confluence checker for CHR. In Van Weert and De Koninck [VWDK10].

[LS06]   Edmund S.L. Lam and Martin Sulzmann. Towards agent programming in CHR. In Schrijvers and Frühwirth [SF06a], pages 17–31.

[LS07]   Edmund S.L. Lam and Martin Sulzmann. A concurrent Constraint Handling Rules semantics and its implementation with software transactional memory. In *DAMP '07: Proc. ACM SIGPLAN Workshop on Declarative Aspects of Multicore Programming*. ACM Press, January 2007.

[LS08]   Edmund S.L. Lam and Martin Sulzmann. Finally, a comparison between Constraint Handling Rules and join-calculus. In Schrijvers et al. [SRF08], pages 51–66.

[LS09]   Edmund S.L. Lam and Martin Sulzmann. Concurrent goal-based execution of Constraint Handling Rules. *TPLP*, 11:841–879, 2009.

[LS13a]   Evelina Lamma and Terrance Swift, editors. *ICLP '13: Proc. 29th Intl. Conf. Logic Programming*, volume 13(4–5) of *TPLP*. Cambridge University Press, August 2013.

[LS13b]   Evelina Lamma and Terrance Swift, editors. *Technical Communications of the 29th Intl. Conf. on Logic Programming*, volume 13(4–5), Online Supplement of *TPLP*. Cambridge University Press, August 2013.

[LSF11]   Johannes Langbein, Roland Stelzer, and Thom Frühwirth. A rule-based approach to long-term routing for autonomous sailboats. In *Robotic Sailing 2011, Part V*, pages 195–204, 2011.

[LWR95]   Jonathan Lever, Mark Wallace, and Barry Richards. Constraint logic programming for scheduling and planning. *BT Technical Journal*, 13(1), 1995.

[LYZW10]   Yisong Liu, Zhihua Yin, Huijuan Zhu, and Lili Wang. Handling negative disjunction constraints (or_not_holds) in FLUX. In *ICCAE 2010: 2nd Intl. Conf. Computer and Automation Engineering*, pages 514–518. IEEE, February 2010.

26

[LZZX10]   Y.S. Liu, H.J. Zhu, M. Zhu, and Y.Q. Xu. Research and implementation on negative disjunction constraints in FLUX. *Jisuanji Yingyong Yanjiu*, 27(8):2980–2983, 2010.

[Mag07]   Martin Magnusson. Deductive planning and composite actions in temporal action logic. Master's thesis, Department of Computer and Information Science, Linköping University, Sweden, 2007. Thesis No. 1329.

[Mah02]   Michael J. Maher. Propagation completeness of reactive constraints. In Stuckey [Stu02], pages 148–162.

[Mar09]   Thierry Martinez. On connections between CHR and LCC. In Raiser and Sneyers [RS09], pages 18–32.

[Mar10]   Thierry Martinez. Semantics-preserving translations between Linear Concurrent Constraint Programming and Constraint Handling Rules. In Fernández [Fer10], pages 57–66.

[Mar11]   Thierry Martinez. Angelic CHR. In Sneyers [Sne11], pages 19–31.

[MB02]   Frank Morawietz and Philippe Blache. Parsing natural languages with CHR. Unpublished Draft, 2002.

[MC03]   Eric Monfroy and Carlos Castro. Basic components for constraint solver cooperations. In *SAC '03: Proc. 2003 ACM symposium on Applied Computing*, pages 367–374, New York, NY, USA, 2003. ACM.

[MD07]   Martin Magnusson and Patrick Doherty. Deductive planning with temporal constraints. In Eyal Amir, Vladimir Lifschitz, and Rob Miller, editors, *Logical Formalizations of Commonsense Reasoning: Papers from the 2007 AAAI Spring Symposium*. AAAI Press, March 2007.

[MDF06]   Marc Meister, Khalil Djelloul, and Thom Frühwirth. Complexity of a CHR solver for existentially quantified conjunctions of equations over trees. In F. Azevedo et al., editors, *CSCLP '06: Proc. 11th Annual ERCIM Workshop on Constraint Solving and Constraint Programming*, volume 4651 of *LNCS*, pages 139–153. Springer, June 2006.

[MdOR09]   Cleyton Mário de Oliveira Rodrigues. Components and theorem proving with Constraint Handling Rules. Master's thesis, Federal University of Pernambuco, Recife, Brazil, 2009.

[MDR07]   Marc Meister, Khalil Djelloul, and Jacques Robin. A unified semantics for Constraint Handling Rules in transaction logic. In C. Baral, G. Brewka, and J. S. Schlipf, editors, *LPNMR '07:*

Proc. 9th Intl. Conf. Logic Programming and Nonmonotonic Reasoning, volume 4483 of *LNCS*, pages 201–213. Springer, May 2007.

[Mei06]   Marc Meister.   Fine-grained parallel implementation of the preflow-push algorithm in CHR. In Fink et al. [FTW06], pages 172–181.

[Mei07]   Marc Meister. Concurrency of the preflow-push algorithm in Constraint Handling Rules. In *CSCLP'07: Proc. 12th Intl. Workshop on Constraint Solving and Constraint Logic Programming*, pages 160–169, 2007.

[Mei08]   Mark Meister. *Advances in Constraint Handling Rules*. PhD thesis, Universität Ulm, Germany, 2008.

[Meu96]   Holger Meuss.   Konfluenz von Constraint-Handling-Rules-programmen. Diplomarbeit, Institut für Informatik, Ludwig-Maximilians-Universität München, Germany, 1996.

[Mey00]   Bernd Meyer. A constraint-based framework for diagrammatic reasoning. In Holzbaur and Frühwirth [HF00a], pages 327–344.

[MF06]   Marc Meister and Thom Frühwirth. Complexity of the CHR rational tree equation solver. In Schrijvers and Frühwirth [SF06a], pages 77–91.

[MF07]   Julien Martin and François Fages. From business rules to constraint programs in warehouse management systems. In *Doctoral programme of the 13th Intl. Conf. on Princ. and Pract. of Constraint Programming*, 2007.

[MHH11]   Jose F. Morales, Manuel Hermenegildo, and Rémy Haemmerlé. Modular extensions for modular (logic) languages. In Vidal [Vid11b].

[MME11]   Ester Mart́inez-Martín and M. Teresa Escrig. A general qualitative spatio-temporal model based on intervals. In *QR2011: 25th International Workshop on Qualitative Reasoning*, 2011.

[MMEP12]   Ester Martínez-Martin, M. Teresa Escrig, and Angel P. Del Pobil. Qualitative velocity model: Representation, reasoning and application. In Sneyers and Frühwirth [SF12], pages 66–81.

[Mon10a]   Eric Monfroy. Constraint handling rules by thom frühwirth, cambridge university press, 2009, 2010. Book review (to appear in Theory and Practice of Logic Programming).

[Mon10b]   M. Montali. Proof procedures. *Specification and Verification of Declarative Open Interaction Models*, pages 201–227, 2010.

[Mon10c]   M. Montali. *Specification and Verification of Declarative Open Interaction Models: A Logic-Based Approach*, volume 56. Springer-Verlag New York Inc, 2010.

[Mor00]   Frank Morawietz. Chart parsing and constraint programming. In M. Kay, editor, *COLING '00: Proc. 18th Intl. Conf. on Computational Linguistics*. Morgan Kaufmann, July/August 2000.

[MP98]   M. J. Maher and J.-F. Puget, editors. *CP '98: Proc. 4th Intl. Conf. Princ. Pract. Constraint Programming*, volume 1520 of *LNCS*. Springer, October 1998.

[MRF10]   Ahmed Magdy, Frank Raiser, and Thom Frühwirth. Implementing dynamic programming recurrences in Constraint Handling Rules with rule priorities. In Abdennadher [Abd10].

[MRS96]   Eric Monfroy, Michael Rusinowitch, and René Schott. Implementing non-linear constraints with cooperative solvers. In *SAC '96: Proc. 1996 ACM symposium on Applied Computing*, pages 63–72. ACM Press, 1996.

[MTC+10]   M. Montali, P. Torroni, F. Chesani, P. Mello, M. Alberti, and E. Lamma. Abductive logic programming as an effective technology for the static verification of declarative business processes. *Fundamenta Informaticae*, 102(3):325–361, 2010.

[MTNL12]   Stephen Muggleton, Alireza Tamaddoni-Nezhad, and Francesca A. Lisi, editors. *Inductive Logic Programming - 21st International Conference, ILP 2011, Windsor Great Park, UK, July 31 - August 3, 2011, Revised Selected Papers*, volume 7207 of *Lecture Notes in Computer Science*. Springer, 2012.

[MVA05]   Luis Menezes, Jairson Vitorino, and Marcos Aurelio. A high performance CHR$^\vee$ execution engine. In Schrijvers and Frühwirth [SF05a], pages 35–45.

[NDS12]   Colin Nicholson and Danny De Schreye. Relevancy analysis as a basis for improved tabling in CHRiSM. In Elvira Albert, editor, *Proceedings of the 22nd International Symposium on Logic-Based Program Synthesis and Transformation,*, pages 100–114, Septempber 2012.

[OC10]   J. Oliveira and E. Carrapatoso. Evaluating the adaptation of multimedia services using a constraints-based approach. *Mobile Multimedia Processing*, pages 70–88, 2010.

[OZA13]   Amr Osman, Amira Zaki, and Slim Abdennadher. CHR meets MapReduce. In Christiansen and Sneyers [CS13], pages 25–38.

[PDS08a]   Paolo Pilozzi and Danny De Schreye. Termination analysis of CHR revisited. In García de la Banda and Pontelli [GdlBP08], pages 501–515.

[PDS08b]   Paolo Pilozzi and Danny De Schreye. Termination analysis of CHR revisited. In Schrijvers et al. [SRF08], pages 35–50.

[PDS09]   Paolo Pilozzi and Danny De Schreye. Scaling termination proofs by a characterization of cycles in CHR. Technical Report CW 541, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, April 2009.

[PDS10]   Paolo Pilozzi and Danny De Schreye. Scaling termination proofs by a characterization of cycles in CHR. In Peter Schneider-Kamp, editor, *11th International Workshop on Termination*, Edinburgh, United Kingdom, July 2010.

[PDS11]   Paolo Pilozzi and Danny De Schreye. Improved termination analysis of CHR using self-sustainability analysis. In Vidal [Vid11b].

[PE10]   H. Plociniczak and S. Eisenbach. JErlang: Erlang with joins. In *Coordination Models and Languages*, pages 61–75. Springer, 2010.

[Pen00]   Gerald Penn. Applying Constraint Handling Rules to HPSG. In Frühwirth et al. [F⁺00a].

[PHA03]   Gerald Penn and Mohammad Haji-Abdolhosseini. Topological parsing. In *EACL '03: Proc. of the 10th conf. of the European chapter of the Assoc. for Computational Linguistics*, pages 283–290, Morristown, NJ, USA, 2003. Association for Computational Linguistics.

[Pil09a]   Paolo Pilozzi. Automating termination proofs for CHR. In Hill and Warren [HW09], pages 504–508.

[Pil09b]   Paolo Pilozzi. Proving termination by invariance relations. In Hill and Warren [HW09], pages 499–503.

[Pil09c]   Paolo Pilozzi. Research summary: Termination of CHR. In Hill and Warren [HW09], pages 534–535.

[PLP04]   Alexander Pretschner, Heiko Lötzbeyer, and Jan Philipps. Model based testing in incremental system development. *Journal of Systems and Software*, 70(3):315–329, 2004.

[PR04]   Gerald Penn and Frank Richter. Lexical resource semantics: From theory to implementation. In Stefan Mueller, editor, *Proceedings of the 11th International Conference on Head-Driven*

Phrase Structure Grammar, pages 423–443. CSLI Publications, 2004.

[PSAK04]   Alexander Pretschner, Oscar Slotosch, Ernst Aiglstorfer, and Stefan Kriebel. Model-based testing for real. *J. Software Tools for Technology Transfer (STTT)*, 5(2–3):140–157, 2004.

[PSB10]   Paolo Pilozzi, Tom Schrijvers, and Maurice Bruynooghe. A transformational approach for proving properties of the CHR constraint store. In Danny De Schreye, editor, *LOPSTR '09: 19th Intl. Symp. Logic-Based Program Synthesis and Transformation, Revised Selected Papers*, volume 6037 of *LNCS*, pages 22–36. Springer, 2010.

[PSD07a]   Paolo Pilozzi, Tom Schrijvers, and Danny De Schreye. Proving termination of CHR in Prolog: A transformational approach. In *WST '07: 9th Intl. Workshop on Termination*, June 2007.

[PSD07b]   Paolo Pilozzi, Tom Schrijvers, and Danny De Schreye. Proving termination of CHR in Prolog: A transformational approach. Technical Report CW 487, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, April 2007.

[Rah07]   Ersha Rahimikia. Detecting non-termination in Constraint Handling Rules. Master's thesis, Dept. Computing and Software, McMaster University, 2007.

[Rai07]   Frank Raiser. Graph transformation systems in CHR. In Dahl and Niemelä [DN07], pages 240–254.

[Rai08a]   Frank Raiser. Semi-automatic generation of CHR solvers from global constraint automata. In Peter J. Stuckey, editor, *CP' 08: Proc. 14th Intl. Conf. Princ. Pract. Constraint Programming*, volume 5202 of *LNCS*, pages 588–592. Springer, September 2008.

[Rai08b]   Frank Raiser. Semi-automatic generation of CHR solvers from global constraint automata. Ulmer Informatik Berichte 2008-03, Ulm University, Germany, February 2008.

[Rai09]   Frank Raiser. Research summary: Analysing graph transformation systems using extended methods from Constraint Handling Rules. In Hill and Warren [HW09], pages 540–541.

[Rai10]   Frank Raiser. *Graph Transformation Systems in Constraint Handling Rules: Improved Methods for Program Analysis*. PhD thesis, Ulm University, Germany, November 2010.

[RBF09]   Frank Raiser, Hariolf Betz, and Thom Frühwirth. Equivalence of CHR states revisited. In Raiser and Sneyers [RS09], pages 33–48.

[RdAFD]   Cleyton Rodrigues, Ryan Ribeiro de Azevedo, Fred Freitas, and Eric Dantas. Lsvf: a new search heuristic to reduce the backtracking calls for solving constraint satisfaction problem. *(IJARAI) International Journal of Advanced Research in Artificial Intelligence*, 1(9).

[RF08]   Frank Raiser and Thom Frühwirth. Towards term rewriting systems in Constraint Handling Rules. In Schrijvers et al. [SRF08], pages 19–34.

[RF09a]   Frank Raiser and Thom Frühwirth. Operational equivalence of Graph Transformation Systems. In Raiser and Sneyers [RS09], pages 49–61.

[RF09b]   Frank Raiser and Thom Frühwirth. Strong joinability analysis for graph transformation systems in CHR. In *TERMGRAPH '09: Proc. 5th Intl. Workshop on Computing with Terms and Graphs*, pages 97–112, March 2009.

[RF10a]   Frank Raiser and Thom Frühwirth. Analyzing Graph Transformation Systems through Constraint Handling Rules. *TPLP*, 2010. To appear.

[RF10b]   Frank Raiser and Thom Frühwirth. Exhaustive parallel rewriting with multiple removals. In Abdennadher [Abd10].

[RG99]   Carlos Ribeiro and Paulo Guedes. Verifying workflow processes against organization security policies. In *WETICE '99: Proc. 8th Workshop on Enabling Technologies on Infrastructure for Collaborative Enterprises*. IEEE Computer Society, 1999.

[RS00a]   Georg Ringwelski and Hans Schlenker. Type inference in CHR programs for the composition of constraint systems. In S. Abdennadher, U. Geske, and D. Seipel, editors, *WLP '00: Proc. 15th Workshop on Logic Programming*, pages 137–146, August 2000.

[RS00b]   Georg Ringwelski and Hans Schlenker. Using typed interfaces to compose CHR programs. In Frühwirth et al. [F+00b].

[RS09]   F. Raiser and J. Sneyers, editors. *CHR '09: Proc. 6th Workshop on Constraint Handling Rules*. K.U.Leuven, Dept. Comp. Sc., Technical report CW 555, July 2009.

[RT07]   Frank Raiser and Paolo Tacchella. On confluence of non-terminating CHR programs. In Djelloul et al. [DDS07], pages 63–76.

[RV06]   Jacques Robin and Jairson Vitorino. ORCAS: Towards a CHR-based model-driven framework of reusable reasoning components. In Fink et al. [FTW06], pages 192–199.

[RVW07]   Jacques Robin, Jairson Vitorino, and Armin Wolf. Constraint programming architectures: Review and a new proposal. *J. UCS*, 13(6):701–720, 2007.

[RZFG00]   Carlos Ribeiro, André Zúquete, Paulo Ferreira, and Paulo Guedes. Security policy consistency. In Frühwirth et al. [F$^+$00a].

[SAB08]   Ingi Sobhi, Slim Abdennadher, and Hariolf Betz. Constructing rule-based solvers for intentionally-defined constraints. In Schrijvers and Frühwirth [SF08a], pages 70–84.

[SAMK06]   Yoshinori Shigeta, Kiyoshi Akama, Hiroshi Mabuchi, and Hidekatsu Koike. Converting Constraint Handling Rules to Equivalent Transformation Rules. *JACIII*, 10(3):339–348, 2006.

[SAS13]   Ghada Fakhry Slim Abdennadher and Nada Sharaf. Towards the implementation of source-to-source transformation tool for CHR operational semantics. In Gupta [Gup13].

[SB06]   Tom Schrijvers and Maurice Bruynooghe. Polymorphic algebraic data type reconstruction. In Bossi and Maher [BM06], pages 85–96.

[SBB02]   Christian Seitz, Bernhard Bauer, and Michael Berger. Planning and scheduling in multi agent systems using Constraint Handling Rules. In *IC-AI '02: Proc. Intl. Conf. Artificial Intelligence*. CSREA Press, June 2002.

[SC08]   Martin Sulzmann and Duc Hiep Chu. A rule-based specification of Software Transactional Memory. In Hanus [Han08].

[Sch99]   Matthias Schmauß. An implementation of CHR in Java. Diplomarbeit, Institute of Computer Science, LMU, Munich, Germany, November 1999.

[Sch02]   Eduardo Torres Schumann. A literate programming system for logic programs with constraints. In M. Comini and M. Falaschi, editors, *WFLP '02: Proc. 11th Intl. Workshop on Functional and (Constraint) Logic Programming*, University of Udine, Research Report UDMI/18/2002/RR, 2002.

[Sch04]   Tom Schrijvers. Jmmsolve: A generative java memory model implemented in Prolog and CHR. In Demoen and Lifschitz [DL04], pages 475–476.

[Sch05]   Tom Schrijvers. *Analyses, optimizations and extensions of Constraint Handling Rules*. PhD thesis, K.U.Leuven, Belgium, June 2005.

[Sch08]   Tom Schrijvers. Constraint Handling Rules — a tutorial for (Prolog) programmers. In García de la Banda and Pontelli [GdlBP08], pages 9–10.

[Sch13]   Christian Schulte, editor. *Principles and Practice of Constraint Programming - 19th International Conference, CP 2013, Uppsala, Sweden, September 16-20, 2013. Proceedings*, volume 8124 of *Lecture Notes in Computer Science*. Springer, 2013.

[SCHG10]   I. Salomie, V.R. Chifu, I. Harsa, and M. Gherga. Web service composition using fluent calculus. *International Journal of Metadata, Semantics and Ontologies*, 5(3):238–250, 2010.

[Sci08]   Scientific Software & Systems Ltd. Company Profile: Solving problems with proven solutions, 2008.

[SCP⁺12]   Elena Simperl, Philipp Cimiano, Axel Polleres, Óscar Corcho, and Valentina Presutti, editors. *The Semantic Web: Research and Applications - 9th Extended Semantic Web Conference, ESWC 2012, Heraklion, Crete, Greece, May 27-31, 2012. Proceedings*, volume 7295 of *Lecture Notes in Computer Science*. Springer, 2012.

[SD04a]   Tom Schrijvers and Bart Demoen. Antimonotony-based delay avoidance for CHR. Technical Report CW 385, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, July 2004.

[SD04b]   Tom Schrijvers and Bart Demoen. The K.U.Leuven CHR system: Implementation and application. In Frühwirth and Meister [FM04], pages 8–12.

[SD10]   Jon Sneyers and Danny De Schreye. APOPCALEAPS: Automatic music generation with CHRiSM. In G. Danoy et al., editors, *22nd Benelux Conference on Artificial Intelligence (BNAIC 2010)*, Luxembourg, October 2010.

[SDD⁺06]   Tom Schrijvers, Bart Demoen, Gregory J. Duck, Peter J. Stuckey, and Thom Frühwirth. Automatic implication checking for CHR constraints. In *RULE '05: 6th Intl. Workshop on Rule-Based Programming*, volume 147(1) of *ENTCS*, pages 93–111. Elsevier, January 2006.

[SDF13]   Jon Sneyers, Daniel De Schreye, and Thom Frühwirth. CHRiSM and probabilistic argumentation logic. In Christiansen and Sneyers [CS13], pages 39–52.

[SDPJS07]   Martin Sulzmann, Gregory J. Duck, Simon Peyton-Jones, and Peter J. Stuckey. Understanding functional dependencies via Constraint Handling Rules. *J. Functional Prog.*, 17(1):83–129, 2007.

[SDS11]   Jon Sneyers and Danny De Schreye. Probabilistic termination of CHRiSM programs. In Vidal [Vid11a].

[SDW08]   Tom Schrijvers, Bart Demoen, and David S. Warren. TCHR: a framework for tabled CLP. *TPLP*, 8(4):491–526, July 2008.

[SF04]   Hugo Simões and Mário Florido. TypeTool: A type inference visualization tool. In H. Kuchen, editor, *WFLP '04: Proc. 13th Intl. Workshop on Functional and (Constraint) Logic Programming*, RWTH Aachen, Dept. Comp. Sc., Technical report AIB-2004-05, pages 48–61, Aachen, Germany, June 2004.

[SF05a]   T. Schrijvers and Th. Frühwirth, editors. *CHR '05: Proc. 2nd Workshop on Constraint Handling Rules*. K.U.Leuven, Dept. Comp. Sc., Technical report CW 421, 2005.

[SF05b]   Tom Schrijvers and Thom Frühwirth. Analysing the CHR implementation of union-find. In Wolf et al. [WFM05], pages 135–146.

[SF06a]   T. Schrijvers and Th. Frühwirth, editors. *CHR '06: Proc. 3rd Workshop on Constraint Handling Rules*. K.U.Leuven, Dept. Comp. Sc., Technical report CW 452, July 2006.

[SF06b]   Tom Schrijvers and Thom Frühwirth. Optimal union-find in Constraint Handling Rules. *TPLP*, 6(1–2):213–224, 2006.

[SF08a]   Tom Schrijvers and Thom Frühwirth, editors. *Constraint Handling Rules — Current Research Topics*, volume 5388 of *LNAI*. Springer, December 2008.

[SF08b]   Jon Sneyers and Thom Frühwirth. Generalized CHR machines. In Schrijvers et al. [SRF08], pages 143–158.

[SF12]   Jon Sneyers and Thom Frühwirth, editors. *CHR '12: Proc. 9th Workshop on Constraint Handling Rules*. K.U.Leuven, Dept. Comp. Sc., Technical report CW 624, September 2012.

[SHA13]   Nada Sharaf, Injy Hamed, and Slim Abdennadher. Tagging reasoning system using CHR. In Christiansen and Sneyers [CS13], pages 61–69.

[SJyJp10]   Z. Shan, C. Jin-yi, and WAN Jun-peng. Qsrm: An implemen-
              tation method for qualitative spatial reasoning with constraint
              handling rules. *Journal of Changshu Institute of Technology*,
              pages 90–94, 2010.

[SKD11a]   Evgeny Skvortsov, Nima Kaviani, and Veronica Dahl. Chemi-
              cal signaling as a useful metafor for resource management. In
              *Proc. IWANN 2011 (International Work Conference on Artifi-
              cial Neural Networks)*, 2011.

[SKD11b]   Evgeny Skvortsov, Nima Kaviani, and Veronica Dahl. Chem-
              ical signaling as a useful metaphor for resource management.
              In *Proceedings of the 11th international conference on Artificial
              neural networks conference on Advances in computational in-
              telligence - Volume Part I*, IWANN'11, pages 449–456, Berlin,
              Heidelberg, 2011. Springer-Verlag.

[SL07a]   Martin Sulzmann and Edmund S.L. Lam. Compiling Constraint
              Handling Rules with lazy and concurrent search techniques. In
              Djelloul et al. [DDS07], pages 139–149.

[SL07b]   Martin Sulzmann and Edmund S.L. Lam. Haskell - Join - Rules.
              In Olaf Chitil, editor, *IFL '07: 19th Intl. Symp. Implementa-
              tion and Application of Functional Languages*, pages 195–210,
              September 2007.

[SL08]   Martin Sulzmann and Edmund S.L. Lam. Parallel execution of
              multi-set constraint rewrite rules. In S. Antoy, editor, *PPDP
              '08: Proc. 10th Intl. Conf. Princ. Pract. Declarative Program-
              ming*, pages 20–31. ACM Press, July 2008.

[SLVW08]   Martin Sulzmann, Edmund S.L. Lam, and Peter Van Weert.
              Actors with multi-headed message receive patterns. In D. Lea
              and G. Zavattaro, editors, *COORDINATION '08: Proc. 10th
              Intl. Conf. Coordination Models and Languages*, number 5052
              in LNCS, pages 315–330. Springer, May 2008.

[SMV09]   Jon Sneyers, Wannes Meert, and Joost Vennekens. CHRiSM:
              Chance Rules induce Statistical Models. In Raiser and Sneyers
              [RS09], pages 62–76.

[SMV+10]   Jon Sneyers, Wannes Meert, Joost Vennekens, Yoshitaka
              Kameya, and Taisuke Sato. CHR(PRISM)-based probabilis-
              tic logic learning. In Hermenegildo and Schaub [HS10a], pages
              433–447.

[Sne08a]   Jon Sneyers. *Optimizing Compilation and Computational Com-
              plexity of Constraint Handling Rules*. PhD thesis, K.U.Leuven,
              Belgium, November 2008.

[Sne08b]   Jon Sneyers. Turing-complete subclasses of CHR. In García de la Banda and Pontelli [GdlBP08], pages 759–763.

[Sne09]   Jon Sneyers. Optimizing compilation and computational complexity of Constraint Handling Rules – Ph.D. thesis summary. In Hill and Warren [HW09], pages 494–498.

[Sne10]   Jon Sneyers. Result-directed CHR execution. In Van Weert and De Koninck [VWDK10].

[Sne11]   Jon Sneyers, editor. *CHR '11: Proc. 8th Workshop on Constraint Handling Rules*. GUC, Technical report, September 2011.

[SNS08]   Anders Schack-Nielsen and Carsten Schürmann. The CHR-Celf connection. In Schrijvers et al. [SRF08], pages 1–2. Invited Talk.

[Spipt]   M. Spies. Continous monitoring for it governance with domain ontologies. In *Database and Expert Systems Applications (DEXA), 2012 23rd International Workshop on*, pages 43–47, Sept.

[SRF08]   T. Schrijvers, F. Raiser, and T. Frühwirth, editors. *CHR '08: Proc. 5th Workshop on Constraint Handling Rules*. RISC Report Series 08-10, University of Linz, Austria, 2008.

[SS05]   Peter J. Stuckey and Martin Sulzmann. A theory of overloading. *ACM TOPLAS*, 27(6):1216–1269, 2005.

[SS08a]   Tom Schrijvers and Martin Sulzmann. Restoring confluence for functional dependencies. In *Draft Proc. 9th Symp. Trends in Funct. Programming*, pages 22–36, Nijmegen, May 2008. Radbound University.

[SS08b]   Tom Schrijvers and Martin Sulzmann. Transactions in Constraint Handling Rules. In García de la Banda and Pontelli [GdlBP08], pages 516–530.

[SS08c]   Martin Sulzmann and Peter J. Stuckey. HM(X) type inference is CLP(X) solving. *Journal of Functional Programming*, 18(2):251–283, 2008.

[SSD05a]   Tom Schrijvers, Peter J. Stuckey, and Gregory J. Duck. Abstract interpretation for Constraint Handling Rules. In Barahona and Felty [BF05a], pages 218–229.

[SSD05b]   Jon Sneyers, Tom Schrijvers, and Bart Demoen. The computational power and complexity of Constraint Handling Rules. In Schrijvers and Frühwirth [SF05a], pages 3–17.

[SSD05c]   Jon Sneyers, Tom Schrijvers, and Bart Demoen. Guard and con-
             tinuation optimization for occurrence representations of CHR.
             In Gabbrielli and Gupta [GG05], pages 83–97.

[SSD06a]   Jon Sneyers, Tom Schrijvers, and Bart Demoen. Dijkstra's algo-
             rithm with Fibonacci heaps: An executable description in CHR.
             In Fink et al. [FTW06], pages 182–191.

[SSD06b]   Jon Sneyers, Tom Schrijvers, and Bart Demoen. Memory reuse
             for CHR. In Etalle and Truszczynski [ET06], pages 72–86.

[SSD08]   Jon Sneyers, Tom Schrijvers, and Bart Demoen. Guard reason-
             ing in the refined operational semantics of CHR. In Schrijvers
             and Frühwirth [SF08a], pages 213–244.

[SSD09]   Jon Sneyers, Tom Schrijvers, and Bart Demoen. The compu-
             tational power and complexity of Constraint Handling Rules.
             ACM TOPLAS, 31(2), February 2009.

[SSR07]   Beata Sarna-Starosta and C.R. Ramakrishnan.   Compiling
             Constraint Handling Rules for efficient tabled evaluation. In
             M. Hanus, editor, *PADL '07: Proc. 9th Intl. Symp. Practical
             Aspects of Declarative Languages*, volume 4354 of *LNCS*, pages
             170–184. Springer, January 2007.

[SSS06]   Martin Sulzmann, Tom Schrijvers, and Peter J. Stuckey. Princi-
             pal type inference for GHC-style multi-parameter type classes.
             In Kobayashi [Kob06], pages 26–43.

[SSS07]   Beata Sarna-Starosta and Tom Schrijvers. Indexing techniques
             for CHR based on program transformation. Technical Report
             CW 500, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, Au-
             gust 2007.

[SSS08a]   Beata Sarna-Starosta and Tom Schrijvers. An efficient term rep-
             resentation for CHR indexing. In M. Carro and B. Demoen, ed-
             itors, *CICLOPS '08: Proc. 8th Colloquium on Implementation
             of Constraint and LOgic Programming Systems*, pages 172–186,
             2008.

[SSS08b]   Beata Sarna-Starosta and Tom Schrijvers.   Transformation-
             based indexing techniques for Constraint Handling Rules. In
             Schrijvers et al. [SRF08], pages 3–18.

[SSS09]   Beata Sarna-Starosta and Tom Schrijvers. Attributed data for
             CHR indexing. In Hill and Warren [HW09], pages 357–371.

[SSSD07]   Beata Sarna-Starosta, R. E. Kurt Stirewalt, and Laura K. Dil-
             lon. A model-based design-for-verification approach to checking
             for deadlock in multi-threaded applications. *Intl. Journal of
             Softw. Engin. and Knowl. Engin.*, 17(2):207–230, 2007.

[SSW04]   Peter J. Stuckey, Martin Sulzmann, and Jeremy Wazny. The
             Chameleon system. In Frühwirth and Meister [FM04], pages
             13–32.

[SSW06]   Peter J. Stuckey, Martin Sulzmann, and Jeremy Wazny. Type
             processing by constraint reasoning. In Kobayashi [Kob06], pages
             1–25. Invited talk.

[SSZPA08]   Beata Sarna-Starosta, David Zook, Emir Pasalic, and Molham
             Aref. Relating Constraint Handling Rules to datalog. In Schri-
             jvers et al. [SRF08], pages 127–142.

[ST07]   Stephan Schiffel and Michael Thielscher. Fluxplayer: A success-
             ful general game player. In *AAAI '07: Proc. 22nd AAAI Conf.
             Artificial Intelligence*, pages 1191–1196. AAAI Press, July 2007.

[Stu02]   P. J. Stuckey, editor. *ICLP '02: Proc. 18th Intl. Conf. Logic
             Programming*, volume 2401 of *LNCS*. Springer, July/August
             2002.

[Sul01]   Martin Sulzmann. TIE: A CHR-based type inference engine.
             Technical Report TR2001/27, University of Melbourne, Dept.
             Comp. Sc., 2001.

[Sul05]   Martin Sulzmann. Chameleon: Systematic type system design
             via Constraint Handling Rules. In Schrijvers and Frühwirth
             [SF05a], page 1. Invited talk.

[SVWS07]   Jon Sneyers, Peter Van Weert, and Tom Schrijvers. Aggregates
             for Constraint Handling Rules. In Djelloul et al. [DDS07], pages
             91–105.

[SVWSD07a]   Jon Sneyers, Peter Van Weert, Tom Schrijvers, and Bart
             Demoen. Aggregates in CHR. Technical Report CW 481,
             K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, March 2007.

[SVWSD07b]   Jon Sneyers, Peter Van Weert, Tom Schrijvers, and Bart De-
             moen. Aggregates in Constraint Handling Rules: Extended ab-
             stract. In Dahl and Niemelä [DN07], pages 446–448.

[SVWSDK10]   Jon Sneyers, Peter Van Weert, Tom Schrijvers, and Leslie
             De Koninck. As time goes by: Constraint Handling Rules – A
             survey of CHR research between 1998 and 2007. *TPLP*, 10(1):1–
             47, 2010.

[SW04]   Tom Schrijvers and David S. Warren. Constraint Handling
             Rules and tabled execution. In Demoen and Lifschitz [DL04],
             pages 120–136.

[SW06]   Martin Sulzmann and Meng Wang. Modular generic program-
             ming with extensible superclasses. In *Proceedings of the 2006
             ACM SIGPLAN workshop on Generic programming*, WGP '06,
             pages 55–65. ACM, 2006.

[SW07]   Martin Sulzmann and Meng Wang. Aspect-oriented program-
             ming with type classes. In *Proceedings of the 6th workshop on
             Foundations of aspect-oriented languages*, FOAL '07, pages 65–
             74. ACM, 2007.

[SWD03]   Tom Schrijvers, David S. Warren, and Bart Demoen. CHR
             for XSB. In R. Lopes and M. Ferreira, editors, *CICLOPS
             '03: Proc. 3rd Intl. Colloq. on Implementation of Constraint
             and Logic Programming Systems*, University of Porto, Portugal,
             Dept. Comp. Sc., Technical report DCC-2003-05, pages 7–20,
             December 2003.

[SWD05]   Tom Schrijvers, Jan Wielemaker, and Bart Demoen. Poster:
             Constraint Handling Rules for SWI-Prolog. In Wolf et al.
             [WFM05].

[SWS05]   Martin Sulzmann, Jeremy Wazny, and Peter J. Stuckey. Con-
             straint abduction and Constraint Handling Rules. In Schrijvers
             and Frühwirth [SF05a], pages 63–78.

[SWS06]   Martin Sulzmann, Jeremy Wazny, and Peter J. Stuckey. A
             framework for extended algebraic data types. In *FLOPS '06:
             Proc. 8th Intl. Symp. Functional and Logic Programming*, vol-
             ume 3945 of *LNCS*, pages 47–64. Springer, 2006.

[SZD06]   Tom Schrijvers, Neng-Fa Zhou, and Bart Demoen. Translating
             Constraint Handling Rules into Action Rules. In Schrijvers and
             Frühwirth [SF06a], pages 141–155.

[Tac08]   Paolo Tacchella. *Constraint Handling Rules — Compositional
             Semantics and Program Transformation*. PhD thesis, Dept.
             Comp. Sc., University of Bologna, Italy, March 2008.

[TGM07]   Paolo Tacchella, Maurizio Gabbrielli, and Maria Chiara Meo.
             Unfolding in CHR. In Leuschel and Podelski [LP07], pages 179–
             186.

[Thi02]   Michael Thielscher. Reasoning about actions with CHRs and
             finite domain constraints. In Stuckey [Stu02], pages 70–84.

[Thi05a]   Michael Thielscher. FLUX: A logic programming method for
             reasoning agents. In Abdennadher et al. [AFH05], pages 533–
             565.

[Thi05b]   Peter Thiemann. Grammar-based analysis of string expressions. In *TLDI '05: Proc. 2005 ACM SIGPLAN Intl. workshop on Types in Languages Design and Implementation*, pages 59–70, New York, NY, USA, 2005. ACM.

[Thi10]   Michael Thielscher. *Reasoning Robots: The Art and Science of Programming Robotic Agents (Applied Logic Series)*. Springer Netherlands, October 2010.

[tit]

[TOR+10]   Andrea Triossi, Salvatore Orlando, Alessandra Raffaeta, Frank Raiser, and Thom Frühwirth. Constraint-based hardware synthesis. In Abdennadher [Abd10].

[Tri11a]   Andrea Triossi. Boosting chr through hardware acceleration. In Sneyers [Sne11], pages 1–3. Invited talk.

[Tri11b]   Andrea Triossi. Hardware execution of constraint handling rules. *PhD Thesis*, 2011.

[UKHM06]   Kazunori Ueda, Norio Kato, Koji Hara, and Ken Mizuno. LMNtal as a unifying declarative language. In Schrijvers and Frühwirth [SF06a], pages 1–15. Invited talk.

[UO12]   Kazunori Ueda and Seiji Ogawa. HyperLMNtal: An extension of a hierarchical graph rewriting model. *KI - Künstliche Intelligenz*, pages 1–10, 2012.

[vC12]   Matje van de Camp and Henning Christiansen. *Resolving relative time expressions in Dutch text with Constraint Handling Rules*, pages 74–85. University of Orléans, 2012.

[vdG07]   Gerrit van den Geest. Constraints for type class extensions. Master's thesis, Utrecht University, April 2007.

[Vid11a]   German Vidal, editor. *LOPSTR '11: 21st Intl. Symp. Logic-Based Program Synthesis and Transformation, Pre-Proceedings*, 2011.

[Vid11b]   German Vidal, editor. *LOPSTR '11: 21st Intl. Symp. Logic-Based Program Synthesis and Transformation, Revised Selected Papers*, LNCS, 2011.

[Vit09]   Jairson Vitorino. *Model-Driven Engineering a Versatile, Extensible, Scalable Rule Engine through Component Assembly and Model Transformations*. PhD thesis, Federal University of Pernambuco, Recife, Brazil, February 2009.

[VJSS10]   D. Vytiniotis, S.P. Jones, T. Schrijvers, and M. Sulzmann. Outsidein (x) modular type inference with local assumptions. 2010.

[Vol06]   Kimberly Voll. *A methodology of error detection: Improving speech recognition in radiology.* PhD thesis, Simon Fraser University, Burnaby, Canada, 2006.

[VPD07]   Dean Voets, Paolo Pilozzi, and Danny De Schreye. A new approach to termination analysis of Constraint Handling Rules. In Djelloul et al. [DDS07], pages 77–89.

[VPDS08a]   Dean Voets, Paolo Pilozzi, and Danny De Schreye. A new approach to termination analysis of CHR. In Hanus [Han08].

[VPDS08b]   Dean Voets, Paolo Pilozzi, and Danny De Schreye. A new approach to termination analysis of CHR. Technical Report CW 506, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, January 2008.

[VW08a]   Peter Van Weert. Compiling Constraint Handling Rules to Java: A reconstruction. Technical Report CW 521, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, August 2008.

[VW08b]   Peter Van Weert. Optimization of CHR propagation rules. In García de la Banda and Pontelli [GdlBP08], pages 485–500.

[VW08c]   Peter Van Weert. Optimization of CHR propagation rules: Extended report. Technical Report CW 519, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, August 2008.

[VW08d]   Peter Van Weert. A tale of histories. In Schrijvers et al. [SRF08], pages 79–94.

[VW10a]   Peter Van Weert. Efficient lazy evaluation of rule-based programs. *IEEE Transactions on Knowledge and Data Engineering*, 22(11):1521–1534, November 2010.

[VW10b]   Peter Van Weert. *Extension and Optimising Compilation of Constraint Handling Rules.* PhD thesis, K.U.Leuven, Belgium, May 2010.

[VW10c]   Peter Van Weert. Join ordering for Constraint Handling Rules: Putting theory into practice. In Van Weert and De Koninck [VWDK10].

[VWDK10]   P. Van Weert and L. De Koninck, editors. *CHR '10: Proc. 7th Workshop on Constraint Handling Rules.* K.U.Leuven, Dept. Comp. Sc., Technical report CW 588, July 2010.

[VWDKS09]   Peter Van Weert, Leslie De Koninck, and Jon Sneyers. A proposal for a next generation of CHR. In Raiser and Sneyers [RS09], pages 77–93.

[VWSD05]   Peter Van Weert, Tom Schrijvers, and Bart Demoen. K.U.Leuven JCHR: a user-friendly, flexible and efficient CHR system for Java. In Schrijvers and Frühwirth [SF05a], pages 47–62.

[VWSD08]   Peter Van Weert, Jon Sneyers, and Bart Demoen. Aggregates for CHR through program transformation. In King [Kin08], pages 59–73.

[VWSSD06a]   Peter Van Weert, Jon Sneyers, Tom Schrijvers, and Bart Demoen. Extending CHR with negation as absence. In Schrijvers and Frühwirth [SF06a], pages 125–140.

[VWSSD06b]   Peter Van Weert, Jon Sneyers, Tom Schrijvers, and Bart Demoen. To CHR$^\urcorner$ or not to CHR$^\urcorner$: Extending CHR with negation as absence. Technical Report CW 446, K.U.Leuven, Dept. Comp. Sc., Leuven, Belgium, May 2006.

[VWWSD08]   Peter Van Weert, Pieter Wuille, Tom Schrijvers, and Bart Demoen. CHR for imperative host languages. In Schrijvers and Frühwirth [SF08a], pages 161–212.

[Was09]   Mathias Wasserthal. An extensible platform for the analysis of graph transformation systems using Constraint Handling Rules. Diploma thesis, Ulm University, February 2009.

[Waz06]   Jeremy Wazny. *Type inference and type error diagnosis for Hindley/Milner with extensions.* PhD thesis, University of Melbourne, Australia, 2006.

[WFM05]   A. Wolf, Th. Frühwirth, and M. Meister, editors. *W(C)LP '05: Proc. 19th Workshop on (Constraint) Logic Programming*, volume 2005-01 of *Ulmer Informatik-Berichte*, February 2005.

[WG10]   A. Wolf and U. Geske, editors. *WLP '09: Proc. 23rd Workshop on (Constraint) Logic Programming.* Universität Potsdam, 2010.

[WGG00]   Armin Wolf, Thomas Gruenhagen, and Ulrich Geske. On incremental adaptation of CHR derivations. In Holzbaur and Frühwirth [HF00a], pages 389–416.

[Wol99]   Armin Wolf. *Adaptive Constraintverarbeitung mit Constraint-Handling-Rules – Ein allgemeiner Ansatz zur Lösung dynamischer Constraint-probleme.* PhD thesis, Technical University Berlin, Germany, 1999.

[Wol00a]   Armin Wolf. Projection in adaptive constraint handling. In Apt et al. [AKMR00], pages 318–338.

[Wol00b]   Armin Wolf. Toward a rule-based solution of dynamic constraint hierarchies over finite domains. In Frühwirth et al. [F$^+$00a].

[Wol01a]   Armin Wolf. Adaptive constraint handling with CHR in Java. In T. Walsh, editor, *CP '01*, volume 2239 of *LNCS*, pages 256–270. Springer, 2001.

[Wol01b]   Armin Wolf. Attributed variables for dynamic constraint solving. In *Proc. 14th Intl. Conf. Applications of Prolog*, pages 211–219. Prolog Association of Japan, October 2001.

[Wol05]   Armin Wolf. Intelligent search strategies based on adaptive Constraint Handling Rules. In Abdennadher et al. [AFH05], pages 567–594.

[WRV07]   Armin Wolf, Jacques Robin, and Jairson Vitorino. Adaptive CHR meets CHR$^\vee$: An extended refined operational semantics for CHR$^\vee$ based on justifications. In Djelloul et al. [DDS07], pages 1–15.

[WRV08]   Armin Wolf, Jacques Robin, and Jairson Vitorino. Adaptive CHR meets CHR$^\vee$: An extended refined operational semantics for CHR$^\vee$ based on justifications. In Schrijvers and Frühwirth [SF08a], pages 48–69.

[WSD07]   Pieter Wuille, Tom Schrijvers, and Bart Demoen. CCHR: the fastest CHR implementation, in C. In Djelloul et al. [DDS07], pages 123–137.

[ZCS11]   Zsolt Zombori, János Csorba, and Péter Szeredi. Static type checking for the Q functional language in Prolog. In Gallagher and Gelfond [GG11b], pages 62–72.

[ZFA13]   Amira Zaki, Thom W. Frühwirth, and Slim Abdennadher. Towards inverse execution of constraint handling rules. In Lamma and Swift [LS13b].

[ZFG12]   Amira Zaki, Thom Frühwirth, and Ilvar Geller. Parallel execution of Constraint Handling Rules on a Graphical Processing Unit. In Sneyers and Frühwirth [SF12], pages 82–90.

[Zhu05]   Hongwei Zhu. *Effective Information Integration and Reutilization: Solutions to Technological Deficiency and Legal Uncertainty*. PhD thesis, Engineering Systems Division, Massachusetts Institute of Technology, Cambridge, MA, USA, September 2005.

[ZM09]   Hongwei Zhu and Stuart E. Madnick. Reconciliation of temporal semantic heterogeneity in evolving information systems. *Ingénierie des Systèmes d'Information*, 14(6):59–74, 2009.

[ZMS08]   Hongwei Zhu, Stuart E. Madnick, and Michael D. Siegel. Enabling global price comparison through semantic integration of web data. *IJEB*, 6(4):319–341, 2008.

[ZRF13]   Amira Zaki, Matthias Rau, and Thom Frühwirth. CHR-IDE: An Eclipse plug-in for constraint handling rules. In Christiansen and Sneyers [CS13], pages 53–60.