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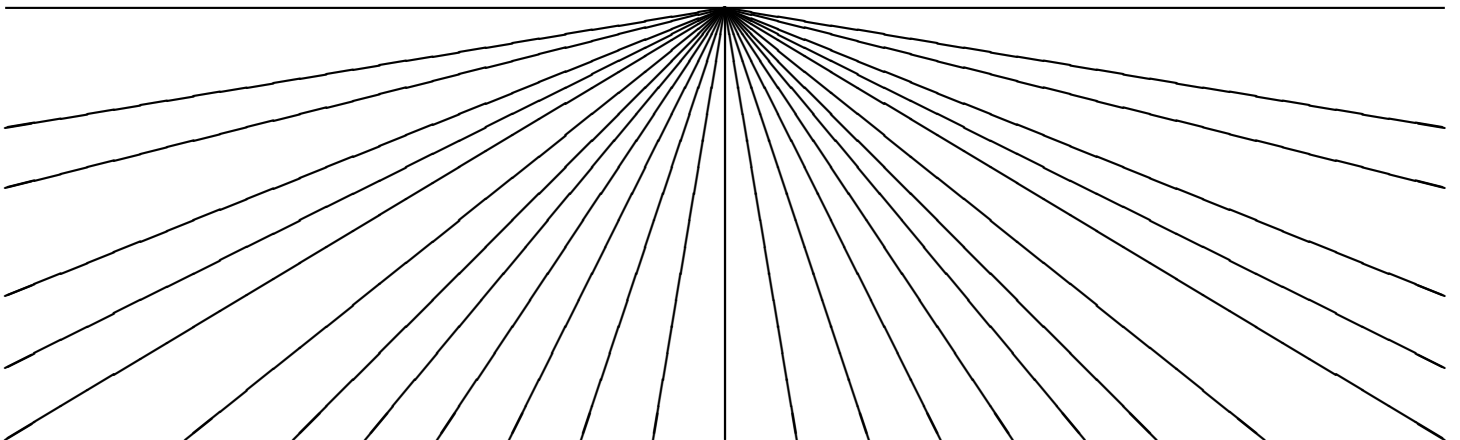
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CLIP Group Publications by Year

The CLIP Group

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Abstract

This document provides a unified list of publications by the CLIP group members, *classified by year* (as well as by type of publication – journal, book, invited, workshop, etc.). A list of publications classified by research topic is also available. Please note that this document is generated automatically and periodically from the group database and may contain repetitions, omissions, and other errors. We ask for understanding with these errors and at the same time will very much appreciate any pointers to them.

Resumen

Este documento proporciona una lista unificada de las publicaciones de los miembros del grupo CLIP, *clasificada por año de publicación* (así como por tipo de publicación – revista, libro, invitado, workshop, etc.). También se dispone de una lista de publicaciones clasificada por temas de investigación. Este documento se genera automáticamente y de forma periódica a partir de la base de datos del grupo y puede contener repeticiones, omisiones, y otros errores. Rogamos comprensión con estos errores y apreciaremos que se nos señalen.

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1 CLIP Group's Publications in 2021

Articles in Refereed Journals:

1. I. Garcia-Contreras, J. F. Morales, M. V. Hermenegildo. *Incremental and Modular Context-sensitive Analysis*. Theory and Practice of Logic Programming, Vol. 21, Num. 2, pages 196–243, Cambridge U. Press, January 2021.
2. Emanuele de Angelis, Fabio Fioravanti, John P. Gallagher, Manuel V. Hermenegildo, Alberto Pettorossi, Maurizio Proietti. *Analysis and Transformation of Constrained Horn Clauses for Program Verification*. Theory and Practice of Logic Programming, To Appear, Cambridge U. Press, 2021. To Appear.

Publications in Refereed Workshops:

1. M. A. Sanchez-Ordaz, I. Garcia-Contreras, V. Perez-Carrasco, J. F. Morales, P. Lopez-Garcia, M. Hermenegildo. *VeriFly: On-the-fly Assertion Checking with CiaoPP*. 6th Workshop on Formal Integrated Development Environment (F-IDE 2021), May 2021.
2. I. Garcia-Contreras, J. F. Morales, M. V. Hermenegildo. *Incremental and Modular Context-sensitive Analysis*. Workshop on Horn Clauses for Verification and Synthesis (HCVS 2021), March 2021. (talk).

Technical Reports and Manuals:

1. F. Bueno, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, J.F. Morales (Eds.). *The Ciao System. Ref. Manual (V1.20)*. April 2021. Available at <http://ciao-lang.org>.

2 CLIP Group's Publications in 2020

Articles in Refereed Conferences:

1. I. Casso, J. F. Morales, P. Lopez-Garcia, R. Giacobazzi, M. V. Hermenegildo. *Computing Abstract Distances in Logic Programs*. Post-Proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), LNCS, Vol. 12042, Springer-Verlag, April 2020.
2. I. Casso, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *An Integrated Approach to Assertion-Based Random Testing in Prolog*. Post-Proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), LNCS, Vol. 12042, pages 159–176, Springer-Verlag, April 2020.
3. M. Klemen, P. Lopez-Garcia, J. Gallagher, J.F. Morales, M. V. Hermenegildo. *A General Framework for Static Cost Analysis of Parallel Logic Programs*. Post-Proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), LNCS, Vol. 12042, pages 19–35, Springer-Verlag, April 2020.
4. R. Bruni, R. Giacobazzi, R. Gori, I. Garcia-Contreras, D. Pavlovic. *Abstract Extensionality – On the Properties of Incomplete Abstract Interpretations*. Proc. ACM Symposium on Principles of Programming Languages 2020, January 2020.
5. I. Garcia-Contreras, J.F. Morales, M. V. Hermenegildo. *Incremental Analysis of Logic Programs with Assertions and Open Predicates*. Proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), LNCS, pages 36–56, Springer-Verlag, 2020.
6. Joaquín Arias, Zhuo Chen, Manuel Carro, Gopal Gupta. *Modeling and Reasoning in Event Calculus Using Goal-Directed Constraint Answer Set Programming*. Post-Proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), LNCS, Vol. 12042, pages 139–155, Springer-Verlag, 2020.

Books and Monographs:

1. Manuel V. Hermenegildo, Pedro Lopez-Garcia, Alberto Pettorossi, Maurizio Proietti (Eds.). *Fundamenta Informaticae, Special Issue on the 26th International Symposium on Logic-Based Program Synthesis and Transformation: LOPSTR 2016*. Vol. 177, Num. 3–4, IOS Press, December 2020.
2. Pérez Carrasco, Víctor. *Analysis of Smart Contracts using Horn Clauses*. Ms. Thesis, Universidad Politécnica de Madrid, ETSII, E-28660, Boadilla del Monte, Madrid, Spain, 76 pages, June 2020. BSc Thesis.

Invited Papers and Tutorials:

1. Manuel V. Hermenegildo, Pedro Lopez-Garcia, Alberto Pettorossi, Maurizio Proietti. *Preface, Fundamenta Informaticae, Special Issue on the 26th International Symposium on Logic-Based Program Synthesis and Transformation: LOPSTR 2016*. Vol. 177, Num. 3–4, pages 1–3, IOS Press, December 2020.
2. V. Perez-Carrasco, M. Klemen, P. Lopez-Garcia, J.F. Morales, M. V. Hermenegildo. *Cost Analysis of Smart Contracts via Parametric Resource Analysis*. Proceedings of the 27th Static Analysis Symposium (SAS 2020), LNCS, Vol. 12389, pages 7–31, Springer, November 2020.

3. J. Gallagher, M. V. Hermenegildo, B. Kafle, M. Klemen, P. Lopez-Garcia, J.F. Morales. *From big-step to small-step semantics and back with interpreter specialization (invited paper)*. Proceedings of the Eighth International Workshop on Verification and Program Transformation (VPT 2020), Electronic Proceedings in Theoretical Computer Science (EPTCS), pages 50–65, Open Publishing Association (OPA), 2020. Co-located with ETAPS 2020.

Publications in Refereed Workshops:

1. I. Casso, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *Testing Your (Static Analysis) Truths*. Pre-proceedings of the 30th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'20), September 2020.
2. Joaquín Arias, Manuel Carro, Zhuo Chen, Gopal Gupta. *Justifications for Goal-Directed Constraint Answer Set Programming*. Proceedings 36th International Conference on Logic Programming (Technical Communications), EPTCS, Vol. 325, pages 59–72, Open Publishing Association, 2020.

Technical Reports and Manuals:

1. Joaquín Arias, Manuel Carro. *A Theoretical Study of (Full) Tabled Constraint Logic Programming*. Num. 2009.14430 [cs.LO], arXiv, September 2020.
2. F. Bueno, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, J.F. Morales (Eds.). *The Ciao System. Ref. Manual (V1.19)*. March 2020. Available at <http://ciao-lang.org>.

3 CLIP Group's Publications in 2019

Articles in Refereed Journals:

1. Joaquín Arias, Manuel Carro. *Evaluation of the Implementation of an Abstract Interpretation Algorithm using Tabled CLP*. Theory and Practice of Logic Programming, Vol. 19, Num. 5-6, pages 1107–1123, September 2019. Special Issue on ICLP'19.
2. Joaquín Arias, Manuel Carro. *Description, Implementation, and Evaluation of a Generic Design for Tabled CLP*. Theory and Practice of Logic Programming, Vol. 19, Num. 3, pages 412–448, Cambridge U. Press, May 2019.
3. Zorana Banković, Umer Liqat, Pedro Lopez-Garcia. *A General Methodology for Energy-efficient Scheduling in Multicore Environments based on Evolutionary Algorithms*. Journal of Multiple-Valued Logic and Soft Computing (JMVLSOC), SOCO'15 Special Issue, Vol. 32, Num. 3-4, pages 313–341, Old City Publishing, 2019.

Articles in Refereed Conferences:

1. Joaquín Arias, Manuel Carro. *Incremental Evaluation of Lattice-Based Aggregates in Logic Programming Using Modular TCLP*. 21st Int'l. Symposium on Practical Aspects of Declarative Languages, LNCS, Vol. 11372, pages 98–114, Springer, January 2019.
2. I. Garcia-Contreras, J.F. Morales, M. V. Hermenegildo. *Multivariant Assertion-based Guidance in Abstract Interpretation*. Post-Proceedings of the 28th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'18), LNCS, Num. 11408, pages 184–201, Springer-Verlag, January 2019.

Invited Papers and Tutorials:

1. M. V. Hermenegildo, I. Garcia-Contreras, J. Morales, P. Lopez-Garcia, M. Klemen, I. Casso. *Multivariant Assertion-based Guidance of Top-down Horn Clause-based Analysis in CiaoPP*. Workshop on Declarative Program Analysis (DPA 2019), 1 pages, July 2019. (Abstract of invited talk). Associated to FCRC 2019.

Publications in Refereed Workshops:

1. I. Casso, J. F. Morales, P. Lopez-Garcia, R. Giacobazzi, M. V. Hermenegildo. *Computing Abstract Distances in Logic Programs*. Pre-proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), November 2019.
2. I. Casso, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *An Integrated Approach to Assertion-Based Random Testing in Prolog*. Pre-proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), November 2019.
3. M. Klemen, P. Lopez-Garcia, J. Gallagher, J.F. Morales, M. V. Hermenegildo. *A General Framework for Static Cost Analysis of Parallel Logic Programs*. Pre-proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), November 2019.
4. I. Garcia-Contreras, J.F. Morales, M. V. Hermenegildo. *Experiments in Context-Sensitive Incremental and Modular Static Analysis in CiaoPP*. 10th Workshop on Tools for Automatic Program Analysis (TAPAS'19), October 2019. (Extended Abstract).

5. I. Garcia-Contreras, J.F. Morales, M. V. Hermenegildo. *Incremental Analysis of Logic Programs with Assertions and Open Predicates*. Pre-proceedings of the 29th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'19), October 2019.
6. J. Arias, Z. Chen, M. Carro, G. Gupta. *Modeling and Reasoning in Event Calculus Using Goal-Directed Constraint Answer Set Programming*. Pre-Proc. of the 29th Int'l. Symposium on Logic-based Program Synthesis and Transformation , September 2019.
7. M. Klemen, P. Lopez-Garcia, J. Gallagher, J.F. Morales, M. V. Hermenegildo. *Towards a General Framework for Static Cost Analysis of Parallel Logic Programs*. Technical Communications of the 35th International Conference on Logic Programming (ICLP 2019), Electronic Proceedings in Theoretical Computer Science (EPTCS), pages 238–240, Open Publishing Association (OPA), September 2019. (Extended Abstract).
8. I. Casso, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *Towards Computing Abstract Distances in Logic Programs*. Technical Communications of the 35th International Conference on Logic Programming (ICLP 2019), Electronic Proceedings in Theoretical Computer Science (EPTCS), pages 65–66, Open Publishing Association (OPA), September 2019. (Extended Abstract).
9. Joaquín Arias, Manuel Carro, Zhuo Chen, Gopal Gupta. *Constraint Answer Set Programming without Grounding and its Applications*. 3rd Int'l. Workshop on the Resurgence of Datalog in Academia and Industry (Datalog 2.0), Vol. 2368, pages 22–26, CEUR-WS, June 2019.

Technical Reports and Manuals:

1. M. Klemen, P. Lopez-Garcia, J. Gallagher, J.F. Morales, M. V. Hermenegildo. *Towards a General Framework for Static Cost Analysis of Parallel Logic Programs*. Num. CLIP-1/2019.0, 19 pages, The CLIP Lab, IMDEA Software Institute and T.U. Madrid, July 2019.
2. I. Casso, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *Computing Abstract Distances in Logic Programs*. Num. CLIP-2/2019.0, 21 pages, The CLIP Lab, IMDEA Software Institute and T.U. Madrid, July 2019.

4 CLIP Group's Publications in 2018

Articles in Refereed Journals:

1. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Some Trade-offs in Reducing the Overhead of Assertion Run-time Checks via Static Analysis*. Science of Computer Programming, Vol. 155, pages 3–26, Elsevier North-Holland, April 2018. Selected and Extended papers from the 2016 International Symposium on Principles and Practice of Declarative Programming.
2. P. Lopez-Garcia, L. Darmawan, M. Klemen, U. Liqat, F. Bueno, M. V. Hermenegildo. *Interval-based Resource Usage Verification by Translation into Horn Clauses and an Application to Energy Consumption*. Theory and Practice of Logic Programming, Special Issue on Computational Logic for Verification, Vol. 18, Num. 2, pages 167–223, Cambridge U. Press, March 2018. arXiv:1803.04451.
3. Joaquín Arias, Manuel Carro, Elmer Salazar, Kyle Marple, Gopal Gupta. *Constraint Answer Set Programming without Grounding*. Theory and Practice of Logic Programming, Vol. 18, Num. 3-4, pages 337–354, Cambridge U. Press, 2018.

Articles in Refereed Conferences:

1. M. Klemen, N. Stulova, P. Lopez-Garcia, J. F. Morales, M. V. Hermenegildo. *Static Performance Guarantees for Programs with Run-time Checks*. 20th Int'l. ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'18), 13 pages, ACM Press, September 2018.
2. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Exploiting Term Hiding to Reduce Run-time Checking Overhead*. 20th International Symposium on Practical Aspects of Declarative Languages (PADL 2018), LNCS, Num. 10702, pages 99–115, Springer-Verlag, January 2018.
3. U. Liqat, Z. Banković, P. Lopez-Garcia, M. V. Hermenegildo. *Inferring Energy Bounds via Static Program Analysis and Evolutionary Modeling of Basic Blocks*. Logic-Based Program Synthesis and Transformation - 27th International Symposium, LOPSTR 2017, Namur, Belgium, October 10-12, 2017, Revised Selected Papers, Lecture Notes in Computer Science, Vol. 10855, Springer, 2018.

Books and Monographs:

1. Umer Liqat. *A Multi-Language and Multi-Platform Framework for Resource Consumption Analysis and its Application to Energy-Efficient Software Development*. Ph.D. Thesis, Escuela Técnica Superior de Ingenieros Informáticos, UPM, July 2018.
2. Nataliia Stulova. *Improving Run-time Checking in Dynamic Programming Languages*. Ph.D. Thesis, Escuela Técnica Superior de Ingenieros Informáticos, UPM, May 2018.

Invited Papers and Tutorials:

1. M. V. Hermenegildo, M. Carro, P. Lopez-Garcia, J.F. Morales, J. Arias, I. Garcia-Contreras, M. Klemen, N. Stulova. *25 Years of Ciao (abstract of invited tutorial)*. Pre-proceedings of the 28th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'18), September 2018.
2. M. V. Hermenegildo, P. Lopez-Garcia, J. Morales, I. Garcia-Contreras, M. Klemen, N. Stulova. *Horn Clause-based Program Analysis and Verification with CiaoPP*. 1st International Workshop on Declarative Program Analysis (DPA 2018), 1 pages, July 2018. (Abstract of invited talk). Associated to ECOOP/ISSTA 2018.

3. Floriana Esposito, Carlo Ghezzi, Manuel V. Hermenegildo, Helene Kirchner, Luke Ong. *Informatics Research Evaluation*. 12 pages, Informatics Europe, March 2018. http://www.informatics-europe.org/news/436-research_evaluation.html.

Publications in Refereed Workshops:

1. I. Garcia-Contreras, J.F. Morales, M. V. Hermenegildo. *Multivariant Assertion-based Guidance in Abstract Interpretation*. Pre-proceedings of the 28th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'18), September 2018.
2. P. Lopez-Garcia, M. Klemen, U. Liqat, M. V. Hermenegildo. *A General Framework for Static Profiling of Parametric Resource Usage (extended abstract)*. 19th International Workshop on Logic and Computational Complexity (LCC 2018), 4 pages, July 2018. Associated to FLOC 2018.
3. I. Garcia-Contreras, J. F. Morales, M. V. Hermenegildo. *Towards Incremental and Modular Context-sensitive Analysis*. Technical Communications of the 34th International Conference on Logic Programming (ICLP 2018), OpenAccess Series in Informatics (OASICs), 2 pages, Dagstuhl Press, July 2018. (Extended Abstract).
4. M. Klemen, N. Stulova, P. Lopez-Garcia, J. F. Morales, M. V. Hermenegildo. *Towards Static Performance Guarantees for Programs with Run-time Checks*. Technical Communications of the 34th International Conference on Logic Programming (ICLP 2018), OpenAccess Series in Informatics (OASICs), 2 pages, July 2018. (Extended Abstract).

Technical Reports and Manuals:

1. I. Garcia-Contreras, J. F. Morales, M. V. Hermenegildo. *An Approach to Incremental and Modular Context-sensitive Analysis of Logic Programs*. Num. CLIP-2/2018.0, 28 pages, The CLIP Lab, IMDEA Software Institute and T.U. Madrid, April 2018.
2. M. Klemen, N. Stulova, P. Lopez-Garcia, J. F. Morales, M. V. Hermenegildo. *An Approach to Static Performance Guarantees for Programs with Run-time Checks*. Num. CLIP-1/2018.0, 15 pages, The CLIP Lab, IMDEA Software Institute and T.U. Madrid, April 2018.

5 CLIP Group's Publications in 2017

Articles in Refereed Journals:

1. U. Liqat, Z. Banković, P. Lopez-Garcia, M. V. Hermenegildo. *An Evolutionary Scheduling Approach for Trading-off Accuracy vs. Verifiable Energy in Multicore Processors*. Logic Journal of the IGPL, Vol. 25, Num. 6, pages 1006–1019, Oxford Academic Press, December 2017.

Articles in Refereed Conferences:

1. Andreas Metzger, Philipp Leitner, Dragan Ivanovic, Eric Schmieders, Rod Franklin, Manuel Carro, Schahram Dustdar, Klaus Pohl. *Vergleich und Kombination von Techniken des Predictive Business Process Monitoring*. Software Engineering 2017, Fachtagung des GI-Fachbereichs Softwaretechnik, Lecture Notes in Informatics (LNI), Vol. P-267, pages 79–80, GI, February 2017.

Books and Monographs:

1. M. V. Hermenegildo, P. Lopez-Garcia (Eds.). *Logic-Based Program Synthesis and Transformation - 26th International Symposium, LOPSTR 2016, Edinburgh, UK, September 6-8, 2016, Revised Selected Papers*. Lecture Notes in Computer Science, Num. 10184, 330 pages, Springer, July 2017.

Invited Papers and Tutorials:

1. M. V. Hermenegildo, P. Lopez-Garcia, U. Liqat, M. Klemen. *Energy Consumption Analysis and Verification by Transformation into Horn Clauses and Abstract Interpretation*. 5th International Workshop on Verification and Program Transformation (VPT 2017), Vol. 253, pages 4–6, EPTCS, April 2017. (Abstract of invited talk).

Articles in Books and Other Collections:

1. P. Lopez-Garcia, M. V. Hermenegildo, M. Klemen, U. Liqat. *Energy Consumption Analysis and Verification using CiaoPP*. The ALP Newsletter, Vol. 30, Num. 3, The Association for Logic Programming, September 2017.
2. Salvador Tamarit, Guillermo Viguera, Manuel Carro, Julio Mariño. *Machine Learning-Driven Automatic Program Transformation to Increase Performance in Heterogeneous Architectures*. Tools for High Performance Computing 2016, Springer International Publishing, 2017.

Publications in Refereed Workshops:

1. U. Liqat, Z. Banković, P. Lopez-Garcia, M. V. Hermenegildo. *Inferring Energy Bounds via Static Program Analysis and Evolutionary Modeling of Basic Blocks*. Pre-proceedings of the 27th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'17), October 2017. arXiv:1601.02800.
2. Salvador Tamarit, Julio Mariño, Guillermo Viguera, Manuel Carro. *Towards a Semantics-Aware Code Transformation Toolchain for Heterogeneous Systems*. Proceedings of XIV Jornadas sobre Programación y Lenguajes (PROLE 2016), EPTCS, September 2017.

3. Guillermo Viguera, Manuel Carro, Salvador Tamarit, Julio Mariño. *Towards Automatic Learning of Heuristics for Mechanical Transformations of Procedural Code*. Proceedings of XIV Jornadas sobre Programación y Lenguajes (PROLE 2016), EPTCS, September 2017.
4. Nataliia Stulova. *On Improving Run-time Checking in Dynamic Languages*. Technical Communications of the 33rd International Conference on Logic Programming (ICLP 2017), OpenAccess Series in Informatics (OASICs), Vol. 58, pages 1501–1510, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2017. CP/ICLP/SAT Doctoral Program 2017.
5. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Towards Run-time Checks Simplification via Term Hiding*. Technical Communications of the 33rd International Conference on Logic Programming (ICLP 2017), OpenAccess Series in Informatics (OASICs), Vol. 58, pages 91–93, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2017. (Extended Abstract).

Technical Reports and Manuals:

1. F. Bueno, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, J.F. Morales (Eds.). *The Ciao System. Ref. Manual (V1.16)*. July 2017. Available at <http://ciao-lang.org>.
2. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Term Hiding and its Impact on Run-time Check Simplification*. Num. CLIP-1/2017.0, 27 pages, The CLIP Lab, May 2017. CoRR abs/1705.06662 (v2) [cs.PL].

6 CLIP Group's Publications in 2016

Articles in Refereed Journals:

1. K. Eder, J.P. Gallagher, P. Lopez-Garcia, H. Muller, Z. Banković, K. Georgiou, R. Haemmerlé, M. V. Hermenegildo, B. Kafle, S. Kerrison, M. Kirkeby, M. Klemen, X. Li, U. Liqat, J. Morse, M. Rhiger, M. Rosendahl. *ENTRA: Whole-Systems Energy Transparency*. Microprocessors and Microsystems, Vol. 47, Part B, pages 278–286, Elsevier, November 2016.
2. Manuel Carro, Andy King. *Introduction to the 32nd International Conference on Logic Programming Special Issue*. Theory and Practice of Logic Programming, Vol. 16, Num. 5-6, pages 509–514, Cambridge University Press, September 2016.
3. I. Garcia-Contreras, J. F. Morales, M. V. Hermenegildo. *Semantic Code Browsing*. Theory and Practice of Logic Programming, 32nd Int'l. Conference on Logic Programming (ICLP'16) Special Issue, Vol. 16, Num. 5-6, pages 721–737, Cambridge U. Press, September 2016.
4. P. Lopez-Garcia, M. Klemen, U. Liqat, M. V. Hermenegildo. *A General Framework for Static Profiling of Parametric Resource Usage*. Theory and Practice of Logic Programming, 32nd Int'l. Conference on Logic Programming (ICLP'16) Special Issue, Vol. 16, Num. 5-6, pages 849–865, Cambridge U. Press, September 2016.
5. J.F. Morales, M. Carro, M. V. Hermenegildo. *Description and Optimization of Abstract Machines in a Dialect of Prolog*. Theory and Practice of Logic Programming, Vol. 16, Num. 1, pages 1–58, Cambridge University Press, January 2016.

Articles in Refereed Conferences:

1. Joaquín Arias, Manuel Carro. *Description and Evaluation of a Generic Design to Integrate CLP and Tabled Execution*. 18th Int'l. ACM Symposium on Principles and Practice of Declarative Programming, pages 10–23, ACM Press, September 2016.
2. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Reducing the Overhead of Assertion Runtime Checks via Static Analysis*. 18th Int'l. ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'16), pages 90–103, ACM Press, September 2016.
3. R. Haemmerlé, P. Lopez-Garcia, U. Liqat, M. Klemen, J. P. Gallagher, M. V. Hermenegildo. *A Transformational Approach to Parametric Accumulated-cost Static Profiling*. 13th International Symposium on Functional and Logic Programming (FLOPS 2016), LNCS, Vol. 9613, pages 163–180, Springer, March 2016.
4. B. Kafle, J. P. Gallagher, J. F. Morales. *RAHFT: A Tool for Verifying Horn Clauses Using Abstract Interpretation and Finite Tree Automata*. Computer Aided Verification - 28th International Conference, CAV 2016, Toronto, ON, Canada, July 17-23, 2016, Proceedings, Part I, pages 261–268, 2016.

Books and Monographs:

1. Manuel Carro, Andy King (Eds.). *32nd International Conference on Logic Programming*. Vol. 16, Num. 5-6, Cambridge University Press, September 2016.
2. Isabel Garcia-Contreras. *Code Search: A Semantic, Abstract Interpretation-Based Approach*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, 103 pages, July 2016.

3. Manuel Carro, Salvador Tamarit, Guillermo Viguera, Julio Mariño (Eds.). *Proceedings of the First Workshop on Program Transformation for Programmability in Heterogeneous Architectures (PROHA 2016)*. March 2016.
4. A. Zaks, M. V. Hermenegildo. *Proceedings of the 25th International Conference on Compiler Construction (CC 2016)*. ACM, March 2016.
5. Manuel Carro, Andy King, Neda Saeedloei, Marina De Vos (Eds.). *Technical Communications of the 32nd International Conference on Logic Programming*. OASICS, Vol. 52, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2016.

Articles in Books and Other Collections:

1. U. Liqat, K. Georgiou, S. Kerrison, P. Lopez-Garcia, M. V. Hermenegildo, J. P. Gallagher, K. Eder. *Inferring Parametric Energy Consumption Functions at Different Software Levels: ISA vs. LLVM IR*. Foundational and Practical Aspects of Resource Analysis: 4th International Workshop, FOPARA 2015, London, UK, April 11, 2015. Revised Selected Papers, Lecture Notes in Computer Science, Vol. 9964, pages 81–100, Springer, 2016.

Publications in Refereed Workshops:

1. J. Arias. *Tabled CLP for Reasoning over Stream Data*. Technical Communications of the 32nd Int'l. Conference on Logic Programming, Vol. 52, pages 1–8, OASICS, October 2016. Doctoral Consortium.
2. Jan Kuper, Lutz Schubert, Kilian Kempf, Colin Glas, Daniel Rubio Bonilla, Manuel Carro. *Program Transformations in the POLCA Project*. Design, Automation, and Testing in Europe, EDAA, March 2016.
3. Guillermo Viguera, Manuel Carro, Salvador Tamarit, Julio Mariño. *Towards Automatic Learning of Heuristics for Mechanical Transformations of Procedural Code*. Proceedings of the First International Workshop on Program Transformation for Programmability in Heterogeneous Architectures (PROHA 2016), March 2016.
4. Salvador Tamarit, Julio Mariño, Guillermo Viguera, Manuel Carro. *Towards a Semantics-Aware Transformation Toolchain for Heterogeneous Systems*. Proceedings of the First International Workshop on Program Transformation for Programmability in Heterogeneous Architectures (PROHA 2016), March 2016.
5. U. Liqat, Z. Banković, P. Lopez-Garcia, M. V. Hermenegildo. *Inferring Energy Bounds Statically by Evolutionary Analysis of Basic Blocks*. Workshop on High Performance Energy Efficient Embedded Systems (HIP3ES 2016), 2016. arXiv:1601.02800.

7 CLIP Group's Publications in 2015

Articles in Refereed Journals:

1. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Practical Run-time Checking via Unobtrusive Property Caching*. Theory and Practice of Logic Programming, 31st Int'l. Conference on Logic Programming (ICLP'15) Special Issue, Vol. 15, Num. 04-05, pages 726–741, Cambridge U. Press, September 2015. <http://arxiv.org/abs/1507.05986>.
2. Zorana Banković, Pedro Lopez-Garcia. *Stochastic vs. Deterministic Evolutionary Algorithm-based Allocation and Scheduling for XMOS Chips*. Neurocomputing, Vol. 150, pages 82–89, Elsevier, February 2015.
3. Andreas Metzger, Philip Leitner, Dragan Ivanovic, Eric Schmieders, Roslin Franklin, Manuel Carro, Schahram Dustdar, Klaus Pohl. *Comparing and Combining Predictive Business Process Monitoring Techniques*. System, Man, and Cybernetics: Systems, IEEE Transactions on, Vol. 45, Num. 2, pages 276–290, February 2015.

Articles in Refereed Conferences:

1. Salvador Tamarit, Guillermo Viguera, Manuel Carro, Julio Mariño. *A Haskell Implementation of a Rule-Based Program Transformation for C Programs*. International Symposium on Practical Aspects of Declarative Languages, LNCS, Num. 9131, pages 105–114, Springer-Verlag, June 2015.
2. Z. Banković, U. Liqat, P. Lopez-Garcia. *A Practical Approach for Energy Efficient Scheduling in Multicore Environments by combining Evolutionary and YDS Algorithms with Faster Energy Estimation*. The 11th International Conference on Artificial Intelligence Applications and Innovations (AIAI'15), IFIP Advances in Information and Communication Technology, Vol. 458, pages 478–493, Springer, 2015.
3. Z. Banković, U. Liqat, P. Lopez-Garcia. *Trading-off Accuracy vs. Energy in Multicore Processors via Evolutionary Algorithms Combining Loop Perforation and Static Analysis-based Scheduling*. Hybrid Artificial Intelligent Systems (HAIS 2015), Lecture Notes in Computer Science, Vol. 9121, pages 690–701, Springer International Publishing, 2015.
4. Z. Banković, P. Lopez-Garcia. *Improved Energy-aware Stochastic Scheduling based on Evolutionary Algorithms via Copula-based Modeling of Task Dependences*. International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2015), Advances in Intelligent Systems and Computing, Vol. 368, pages 153–163, Springer International Publishing, 2015.
5. Z. Banković, P. Lopez-Garcia. *Energy Efficient Allocation and Scheduling for DVFS-enabled Multicore Environments using a Multiobjective Evolutionary Algorithm*. Genetic and Evolutionary Computation Conference (GECCO 2015), pages 1353–1354, ACM, 2015.
6. J.F. Morales, M. V. Hermenegildo. *Pre-Indexed Terms for Prolog*. Post-Proceedings of the 24th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'14), LNCS, Vol. 8981, pages 317–331, Springer, 2015.

Books and Monographs:

1. Joaquín Arias. *Design and implementation of a modular interface to integrate CLP and tabled execution*. Ms. Thesis, ETSI Ing. Informatica, July 2015.

2. M. Klemen. *Improved Static Analysis and Verification of Energy Consumption and other Resources via Abstract Interpretation*. Ms. Thesis, Technical University of Madrid, ETSI-Informatica, E-28660, Boadilla del Monte, Madrid, Spain, 88 pages, July 2015.

Publications in Refereed Workshops:

1. R. Haemmerle, M. V. Hermenegildo, M. Klemen, U. Liqat, P. Lopez-Garcia. *Energy Analysis and Verification by Translation to Horn Clauses and Abstract Interpretation*. Workshop on Horn Clauses for Verification and Synthesis (HCVS'2015), July 2015.
2. Joaquín Arias, Manuel Carro. *Towards a Generic Interface to Integrate CLP and Tabled Execution (Extended Abstract)*. Technical Communications of the 31st International Conference on Logic Programming, CEUR Workshop Proceedings, Vol. 1433, CEUR-WS.org, 2015. Extended Abstract.
3. P. Lopez-Garcia, R. Haemmerlé, M. Klemen, U. Liqat, M. V. Hermenegildo. *Towards Energy Consumption Verification via Static Analysis*. Workshop on High Performance Energy Efficient Embedded Systems (HIP3ES), arXiv:1501.03064, 11 pages, 2015. arXiv:1512.09369.

Technical Reports and Manuals:

1. P. Lopez-Garcia, R. Haemmerlé, U. Liqat, M. Klemen, M. V. Hermenegildo. *Parametric Static Profiling*. Num. CLIP-2/2015.0, The CLIP Lab, April 2015.
2. Guillermo Viguera, Salvador Tamarit, Manuel Carro, Julio Mariño. *Towards a Rule-Based Approach to Generate High-Performance Scientific Code*. Num. CLIP1/2015.0, 8 pages, The CLIP Lab, March 2015. <http://cliplab.org/papers/viguera15-rule-based.pdf>.

8 CLIP Group's Publications in 2014

Articles in Refereed Journals:

1. A. Serrano, P. Lopez-Garcia, M. V. Hermenegildo. *Resource Usage Analysis of Logic Programs via Abstract Interpretation Using Sized Types*. Theory and Practice of Logic Programming, 30th Int'l. Conference on Logic Programming (ICLP'14) Special Issue, Vol. 14, Num. 4-5, pages 739–754, Cambridge U. Press, July 2014.
2. G.J. Duck, R. Haemmerlé, M. Sulzmann. *On Termination, Confluence and Consistent CHR-based Type Inference*. Theory and Practice of Logic Programming, 30th Int'l. Conference on Logic Programming (ICLP'14) Special Issue, Vol. 14, Num. 4-5, pages 619–632, Cambridge U. Press, 2014.

Articles in Refereed Conferences:

1. Dragan Ivanovic, Manuel Carro. *Transforming Service Compositions into Cloud-Friendly Actor Networks*. Service-Oriented Computing - 12th International Conference, ICSOC 2014, Paris, France, November 3-6, 2014. Proceedings, LNCS, Vol. 8831, pages 291–305, Springer Verlag, November 2014.
2. Dragan Ivanović, Manuel Carro, Peerachai Kaowichakorn. *Towards QoS Prediction Based on Composition Structure Analysis and Probabilistic Models*. Service-Oriented Computing - 12th International Conference, ICSOC, LNCS, Vol. 8831, pages 394–402, Springer Verlag, November 2014.
3. R. Haemmerlé. *On Combining Backward and Forward Chaining in Constraint Logic Programming*. 16th Int'l. ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'14), 12 pages, ACM Press, September 2014.
4. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Assertion-based Debugging of Higher-Order (C)LP Programs*. 16th Int'l. ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'14), pages 225–235, ACM Press, September 2014.
5. Dave Barker-Plummer, Nik Swoboda, Michael D. Murray. *An Example HyperVenn Proof*. Diagrammatic Representation and Inference - 8th International Conference, Diagrams 2014, Melbourne, VIC, Australia, July 28 - August 1, 2014. Proceedings, pages 51–53, July 2014.
6. U. Liqat, S. Kerrison, A. Serrano, K. Georgiou, P. Lopez-Garcia, N. Grech, M. V. Hermenegildo, K. Eder. *Energy Consumption Analysis of Programs based on XMOS ISA-Level Models*. Logic-Based Program Synthesis and Transformation, 23rd International Symposium, LOPSTR 2013, Revised Selected Papers, Lecture Notes in Computer Science, Vol. 8901, pages 72–90, Springer, 2014.

Books and Monographs:

1. R. Haemmerlé, J. Sneyers. *Proceedings of the Eleventh Workshop on Constraint Handling Rules (CHR 2014)*. CoRR abs/1406.1510, 2014.

Articles in Books and Other Collections:

1. K. Georgiou, U. Liqat. *Towards LLVM-Based Energy Consumption Analysis of Programs*. ICT-Energy (Nanoenergy) Letters, Num. 8, pages 16–17, July 2014.

Publications in Refereed Workshops:

1. J.F. Morales, M. V. Hermenegildo. *Pre-Indexed Terms for Prolog*. Pre-proceedings of the 24th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'14), 15 pages, September 2014.
2. J.F. Morales, M. V. Hermenegildo. *Towards Pre-Indexed Terms*. 14th International Colloquium on Implementation of Constraint and LOGic Programming Systems (CICLOPS-WLPE 2014), 14 pages, RWTH Aachen University, July 2014. <http://sunsite.informatik.rwth-aachen.de/Publications/AIB/2014>.
3. N. Stulova, J. F. Morales, M. V. Hermenegildo. *Towards Assertion-based Debugging of Higher-Order (C)LP Programs (Extended Abstract)*. Theory and Practice of Logic Programming, 30th Int'l. Conference on Logic Programming (ICLP'14) Special Issue, On-line Supplement, Vol. 14, Num. 4-5, pages 209–210, Cambridge U. Press, July 2014.

Technical Reports and Manuals:

1. R. Haemmerlé. *On the Confluence of the Analytical Semantics of CHR*. Num. CLIP2/2014.0, 12 pages, Technical University of Madrid (UPM), July 2014.
2. N. Stulova, J. F. Morales, M. V. Hermenegildo. *An Approach to Assertion-based Debugging of Higher-Order (C)LP Programs*. Num. CLIP-1/2014.0, 25 pages, The CLIP Lab, January 2014. CoRR abs/1404.4246 [cs.PL].

9 CLIP Group's Publications in 2013

Articles in Refereed Journals:

1. D. Ivanovic, M. Carro, M. V. Hermenegildo. *A Sharing-Based Approach to Supporting Adaptation in Service Compositions*. Computing, Vol. 95, Num. 6, pages 453–492, Springer Wien, June 2013.
2. M. Carro, Ángel Herranz, Julio Mariño. *A Model-Driven Approach to Teaching Concurrency*. ACM Transactions on Computer Education, Vol. 13, Num. 1, 2013.
3. Kyriakos Kritikos, Barbara Pernici, Pierluigi Plebani, Cinzia Cappiello, Marco Comuzzi, Salima Benbernou, Ivona Brandic, Attila Kertesz, Michael Parkin, M. Carro. *A Survey on Service Quality Description*. ACM Computing Surveys, Vol. 46, Num. 1, 2013.

Articles in Refereed Conferences:

1. A. Serrano, P. Lopez-Garcia, F. Bueno, M. V. Hermenegildo. *Sized Type Analysis for Logic Programs*. Theory and Practice of Logic Programming, 29th Int'l. Conference on Logic Programming (ICLP'13) Special Issue, On-line Supplement (technical communication), Vol. 13, Num. 4-5, pages 1–14, Cambridge U. Press, August 2013.
2. Z. Drey, J. F. Morales, M. V. Hermenegildo, M. Carro. *Reversible Language Extensions and their Application in Debugging*. Practical Aspects of Declarative Languages (PADL'13), LNCS, Vol. 7752, Springer, January 2013.
3. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo. *Supporting Pruning in Tabled LP*. Practical Aspects of Declarative Languages (PADL'13), LNCS, Springer Verlag, January 2013.
4. Z. Banković, P. Lopez-Garcia. *Genetic Algorithm-based Allocation and Scheduling for Voltage and Frequency Scalable X MOS Chips*. Hybrid Artificial Intelligent Systems (HAIS 2013), Lecture Notes in Computer Science, Vol. 8073, pages 401–410, Springer, 2013.

Books and Monographs:

1. Natalia Stulova. *Dynamic Checking of Assertions for Higher-order Predicates*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, 73 pages, July 2013.
2. Dragan Ivanovic. *Analysis of Service-Oriented Computing Systems*. Ph.D. Thesis, School of Computer Science, UPM, January 2013.
3. R. Haemmerlé, J.F. Morales. *Proceedings of the 23rd Workshop on Logic-based methods in Programming Environments (WLPE 2013)*. CoRR abs/1308.2055, 2013.

Articles in Books and Other Collections:

1. Kerstin Eder, Steve Kerrison, John Gallagher, Pedro Lopez-Garcia. *Whole Systems Energy Transparency*. Num. 6, pages 67–68, August 2013.

Publications in Refereed Workshops:

1. U. Liqat, S. Kerrison, A. Serrano, K. Georgiou, P. Lopez-Garcia, N. Grech, M. V. Hermenegildo, K. Eder. *Energy Consumption Analysis of Programs based on XMOS ISA-Level Models*. Pre-proceedings of the 23rd International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'13), September 2013.
2. A. Serrano, P. Lopez-Garcia, M. V. Hermenegildo. *Towards an Abstract Domain for Resource Analysis of Logic Programs Using Sized Types*. 23rd Workshop on Logic-based Methods in Programming Environments (WLPE 2013), 15 pages, August 2013. CoRR abs/1308.3940.
3. D. Ivanovic, P. Kaowichakorn, M. Carro. *Towards QoS Prediction Based on Composition Structure Analysis and Probabilistic Environment Models*. 5th International Workshop on Principles of Engineering Service-Oriented Systems, May 2013.

10 CLIP Group's Publications in 2012

Articles in Refereed Journals:

1. M. V. Hermenegildo, F. Bueno, M. Carro, P. Lopez-Garcia, E. Mera, J.F. Morales, G. Puebla. *An Overview of Ciao and its Design Philosophy*. Theory and Practice of Logic Programming, Vol. 12, Num. 1–2, pages 219–252, Cambridge University Press, January 2012.
2. R. Haemmerlé. *Diagrammatic confluence for Constraint Handling Rules*. Theory and Practice of Logic Programming, 28th Int'l. Conference on Logic Programming (ICLP'12) Special Issue, Vol. 12, Num. 4-5, pages 737–754, Cambridge U. Press, 2012.
3. J. F. Morales, R. Haemmerlé, M. Carro, M. V. Hermenegildo. *Lightweight compilation of (C)LP to JavaScript*. Theory and Practice of Logic Programming, 28th Int'l. Conference on Logic Programming (ICLP'12) Special Issue, Vol. 12, Num. 4-5, pages 755–773, Cambridge U. Press, 2012.
4. Elvira Albert, Puri Arenas, Samir Genaim, Germán Puebla, Damiano Zanardini. *Cost Analysis of Object-Oriented Bytecode Programs*. Theoretical Computer Science (Special Issue on Quantitative Aspects of Programming Languages), Vol. 413, Num. 1, pages 142–159, Elsevier, 2012.
5. E. Albert, P. Arenas, G. Puebla, M. Hermenegildo. *Certificate Size Reduction in Abstraction-Carrying Code*. Theory and Practice of Logic Programming, Vol. 12, Num. 3, pages 283–318, 2012.

Articles in Refereed Conferences:

1. D. Ivanovic, M. Carro, M. V. Hermenegildo. *A Constraint-Based Approach to Quality Assurance in Service Choreographies*. 10th International Conference on Service Oriented Computing, ICSOC'12, LNCS, Vol. 7637, Springer Verlag, November 2012.
2. George Bariannys, M. Carro, Dimitris Plexousakis. *Deriving Specifications for Composite Web Services*. IEEE Signature Conference on Computers, Software, and Applications, IEEE Computer Society, IEEE, July 2012.
3. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo, P. Stuckey. *A General Implementation Framework for Tabled CLP*. FLOPS'12, LNCS, Num. 7294, pages 104–119, Springer Verlag, May 2012.
4. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo, P. Stuckey. *A General Implementation Framework for Tabled CLP*. 15th Int'l. Symposium on Functional and Logic Programming, LNCS, Vol. 7294, pages 104–119, Springer Verlag, May 2012.
5. E. Albert, R. Bubel, S. Genaim, R. Hähnle, G. Román-Díez. *Verified Resource Guarantees for Heap Manipulating Programs*. Proceedings of the 15th International Conference on Fundamental Approaches to Software Engineering, FASE 2012, Tallinn, Estonia, March, 2012, Lecture Notes in Computer Science, Vol. 7212, pages 130–145, Springer, March 2012.
6. E. Albert, J. Correas, G. Puebla, G. Román-Díez. *Incremental Resource Usage Analysis*. ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation (PEPM 2012), pages 25–34, ACM Press, January 2012.
7. E. Albert, P. Arenas, S. Genaim, M. Gómez-Zamalloa, G. Puebla. *COSTABS: A Cost and Termination Analyzer for ABS*. ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation (PEPM 2012), pages 151–154, ACM Press, January 2012.

8. A. M. Ben-Amram, S. Genaim, A. N. Masud. *On the Termination of Integer Loops*. Verification, Model Checking, and Abstract Interpretation - 13th International Conference, VMCAI 2012, Philadelphia, USA, January 25-27, 2012. Proceedings, Lecture Notes in Computer Science, Vol. 7148, pages 72–87, Springer, January 2012.
9. E. Albert, P. Arenas, M. Gómez-Zamalloa. *Symbolic Execution of Concurrent Objects in CLP*. Practical Aspects of Declarative Languages (PADL'12), LNCS, Vol. 7149, pages 123–137, Springer, January 2012.
10. P. Chico de Guzmán, A. Casas, M. Carro, M. V. Hermenegildo. *A Segment-Swapping Approach for Executing Trapped Computations*. PADL'12, LNCS, Vol. 7149, pages 138–152, Springer Verlag, January 2012.
11. E. Albert, M. Gómez-Zamalloa, J.M. Rojas. *Resource-driven CLP-based Test Case Generation*. Proc. of LOPSTR'11, LNCS, Vol. 7225, pages 25–41, Springer-Verlag, 2012.
12. Dave Barker-Plummer, John Etchemendy, Michael Murray, Emma Pease, Nik Swoboda. *Learning to Use the Openbox: A Framework for the Implementation of Heterogeneous Reasoning*. Diagrammatic Representation and Inference, Lecture Notes in Artificial Intelligence, Vol. 7352, 2 pages, Springer, 2012.

Books and Monographs:

1. P. Chico de Guzmán. *Advanced Evaluation Strategies for Tabling and Parallelism in Logic Programs*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, November 2012.

Invited Papers and Tutorials:

1. M. V. Hermenegildo. *Conferences vs. Journals in CS, what to do? Evolutionary ways forward and the ICLP/TPLP model*. Dagstuhl 12452: Publication Culture in Computing Research – Position Papers, Num. 12452, 12 pages, IBFI – Dagstuhl, November 2012. Slides: <http://cliplab.org/papers/dagstuhl-tplpmove-slides.pdf>.
2. D. Ivanović, M. Carro, M. V. Hermenegildo. *Constraint-Based Runtime Prediction of SLA Violations in Service Orchestrations*. 22nd Workshop on Logic-based Methods in Programming Environments, 1 pages, September 2012. (abstract of invited talk).
3. E. Albert, P. Arenas, S. Genaim, M. Gómez-Zamalloa, G. Puebla. *Automatic Inference of Resource Consumption Bounds*. 18th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR-18), Lecture Notes in Computer Science, Vol. 7180, pages 1–11, Springer, March 2012.

Articles in Books and Other Collections:

1. T. Trigo, P. Lopez-Garcia, S. Muñoz-Hernandez. *A Fuzzy Approach to Resource Aware Automatic Parallelization*. Computational Intelligence, Studies in Computational Intelligence (SCI), Vol. 399, pages 229–245, Springer Berlin Heidelberg, 2012.
2. P. Lopez-Garcia, L. Darmawan, F. Bueno, M. V. Hermenegildo. *Interval-Based Resource Usage Verification: Formalization and Prototype*. Foundational and Practical Aspects of Resource Analysis. Second International Workshop FOPARA 2011, Revised Selected Papers, Lecture Notes in Computer Science, Vol. 7177, pages 54–71, Springer-Verlag, 2012.

Publications in Refereed Workshops:

1. R. Haemmerlé. *Coinductive Proofs over Streams as CHR Confluence Proofs*. 9th Int'l. Workshop on Constraint Handling Rules (CHR 2012), September 2012.
2. Z. Drey, J.F. Morales, M. V. Hermenegildo. *Reversible Language Extensions and their Application in Debugging*. 12th International Colloquium on Implementation of Constraint and Logic Programming Systems (CICLOPS 2012), 15 pages, September 2012.
3. E.J. Gallego-Arias, R. Haemmerlé, M. V. Hermenegildo, J.F. Morales. *The Ciao CLP(FD) Library: A Modular CLP Extension for Prolog*. 12th International Colloquium on Implementation of Constraint and Logic Programming Systems (CICLOPS 2012), 15 pages, September 2012.
4. D. Ivanovic, M. Carro, M. V. Hermenegildo. *Analyzing Service-Oriented Systems Using Their Data and Structure*. European Software Services and Systems Research – Results and Challenges (ICSE Workshop), July 2012.
5. D. Karastoyanova, Z. Nemeth, M. Carro, D. Ivanovic, C. Pautasso, C. Di Napoli, M. Giordano. *Research Challenges on Service Technology Foundations*. European Software Services and Systems Research – Results and Challenges (ICSE Workshop), July 2012.
6. D. Ivanović, M. Carro, M. V. Hermenegildo. *Exploring the Impact of Inaccuracy and Imprecision of QoS Assumptions on Proactive Constraint-Based QoS Prediction for Service Orchestrations*. Proceedings of the 4th International Workshop on Principles of Engineering Service-Oriented Systems, PESOS 2012, pages 931–937, IEEE Press, June 2012.
7. E. Albert, S. Genaim, G. Román-Díez. *Conditional Termination of Loops over Arrays*. ETAPS Workshop on Bytecode Semantics, Verification, Analysis and Transformation (BYTE-CODE'12), March 2012.
8. D. Ivanović, M. Carro, M. V. Hermenegildo. *Constraint-Based Runtime Prediction of SLA Violations in Service Orchestrations*. XII Jornadas sobre Programación y Lenguajes (PROLE), Universidad de Almería, 2012.
9. J. F. Morales, R. Haemmerlé, M. Carro, M. V. Hermenegildo. *Lightweight compilation of (C)LP to JavaScript*. XII Jornadas sobre Programación y Lenguajes (PROLE), Universidad de Almería, 2012.
10. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo, P. Stuckey. *A General Implementation Framework for Tabled CLP*. XII Jornadas sobre Programación y Lenguajes (PROLE), Universidad de Almería, 2012.

11 CLIP Group's Publications in 2011

Articles in Refereed Journals:

1. P. Chico de Guzmán, A. Casas, M. Carro, M. V. Hermenegildo. *Parallel Backtracking with Answer Memoing for Independent And-Parallelism*. Theory and Practice of Logic Programming, 27th Int'l. Conference on Logic Programming (ICLP'11) Special Issue, Vol. 11, Num. 4–5, pages 555–574, Cambridge U. Press, July 2011.
2. R. Haemmerlé. *(Co)-Inductive Semantics for Constraint Handling Rules*. Theory and Practice of Logic Programming, 27th Int'l. Conference on Logic Programming (ICLP'11) Special Issue, Vol. 11, Num. 4–5, pages 593–609, Cambridge U. Press, July 2011.
3. R. Haemmerlé. *Observational Equivalences for Linear Logic Concurrent Constraint Languages*. Theory and Practice of Logic Programming, 27th Int'l. Conference on Logic Programming (ICLP'11) Special Issue, Vol. 11, Num. 4–5, pages 469–485, Cambridge U. Press, July 2011.
4. E. Albert, P. Arenas, S. Genaim, G. Puebla. *Closed-Form Upper Bounds in Static Cost Analysis*. Journal of Automated Reasoning, Vol. 46, Num. 2, pages 161–203, Springer, February 2011.
5. G. Puebla, E. Albert, M. V. Hermenegildo. *Efficient Local Unfolding with Ancestor Stacks*. Theory and Practice of Logic Programming, Vol. 11, Num. 1, pages 1–32, Cambridge U. Press, January 2011.
6. Dave Barker-Plummer, Nik Swoboda. *Reasoning with coincidence grids - A sequent-based logic and an analysis of complexity*. Visual Languages and Computing, Vol. 22, Num. 1, pages 56–65, 2011.

Articles in Refereed Conferences:

1. E. Albert, J. Correas, G. Puebla, G. Román-Díez. *Towards Incremental Resource Usage Analysis*. The Ninth Asian Symposium on Programming Languages and Systems (APLAS'11), Springer, December 2011. Poster Presentation.
2. D. Ivanović, M. Carro, M. V. Hermenegildo. *Constraint-Based Runtime Prediction of SLA Violations in Service Orchestrations*. Service-Oriented Computing – ICSOC 2011, LNCS, Vol. 7084, pages 62–76, Springer Verlag, December 2011. Best paper award.
3. Elvira Albert, Israel Cabañas, Antonio Flores-Montoya, Miguel Gómez-Zamalloa, Sergio Gutiérrez. *jPET: an Automatic Test-Case Generator for Java*. 18th Working Conference on Reverse Engineering (WCRE 2011), 2 pages, IEEE Computer Society, October 2011.
4. J. F. Morales, M. V. Hermenegildo, R. Haemmerlé. *Modular Extensions for Modular (Logic) Languages*. Proceedings of the 21th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'11), LNCS, Vol. 7225, pages 139–154, Springer, July 2011.
5. R. Haemmerlé, P. Lopez-Garcia, M. V. Hermenegildo. *CLP Projection for Constraint Handling Rules*. Proceedings of the 13th International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming, pages 137–148, ACM Press, July 2011.
6. D. Ivanović, M. Carro, M. V. Hermenegildo. *Automated Attribute Inference in Complex Service Workflows Based on Sharing Analysis*. Proceedings of the 8th IEEE Conference on Services Computing SCC 2011, pages 120–127, IEEE Press, July 2011.

7. E. Albert, S. Genaim, M. Gómez-Zamalloa, E. B. Johnsen, R. Schlatte, S. L. Tapia Tarifa. *Simulating Concurrent Behaviors with Worst-Case Cost Bounds*. 17th International Symposium on Formal Methods (FM 2011), Lecture Notes in Computer Science, Vol. 6664, pages 353–368, Springer, June 2011.
8. E. Albert, P. Arenas, S. Genaim, D. Zanardini. *Task-Level Analysis for a Language with Async-Finish Parallelism*. Proceedings of the ACM SIGPLAN/SIGBED 2011 conference on Languages, compilers, and tools for embedded systems, LCTES 2011, Chicago, IL, USA, April 11-14, 2011, pages 21–30, ACM, April 2011.
9. E. Albert, R. Bubel, S. Genaim, R. Hähnle, G. Puebla, G. Román-Díez. *Verified Resource Guarantees using COSTA and KeY*. Proceedings of the 2011 ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation, PEPM 2011, Austin, TX, USA, January 24-25, 2011, pages 73–76, ACM Press, January 2011.
10. E. Mera, T. Trigo, P. Lopez-Garcia, M. V. Hermenegildo. *Profiling for Run-Time Checking of Computational Properties and Performance Debugging in Logic Programs*. Practical Aspects of Declarative Languages (PADL’11), Lecture Notes in Computer Science, Vol. 6539, pages 38–53, Springer-Verlag, January 2011.
11. E. Albert, S. Genaim, A. N. Masud. *More Precise yet Widely Applicable Cost Analysis*. 12th Verification, Model Checking, and Abstract Interpretation (VMCAI’11), Lecture Notes in Computer Science, Vol. 6538, pages 38–53, Springer Verlag, January 2011.
12. E. Albert, P. Arenas, S. Genaim, M. Gómez-Zamalloa, G. Puebla. *Cost Analysis of Concurrent OO Programs*. The 9th Asian Symposium on Programming Languages and Systems (APLAS’11), Vol. 7078, pages 238–254, Springer, 2011.
13. D. Ramírez-Deantes, J. Correas, G. Puebla. *Modular Termination Analysis of Java Bytecode and its Application to phoneME Core Libraries*. Postproceedings of Formal Aspects of Computer Software (FACS 2010), Lecture Notes in Computer Science, Vol. 6921, pages 218–236, Springer, 2011.
14. E. Albert, M. Gómez-Zamalloa, J.M. Rojas, G. Puebla. *Compositional CLP-based Test Data Generation for Imperative Languages*. LOPSTR 2010 Revised Selected Papers, LNCS, Vol. 6564, pages 99–116, Springer-Verlag, 2011.
15. M. Carro, D. Karastoyanova, G. A. Lewis, A. Liu. *Third International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2011)*. ICSE, pages 1218–1219, 2011.
16. Nik Swoboda, Juan Bekios-Calfa, Luis Baumela, Javier de Lope. *An Introduction to AI Course with Guide Robot Programming Assignments*. Proceedings of the 42nd ACM Technical Symposium on Computer Science Education, pages 231–236, ACM, ACM SIGCSE, 2011.
17. Alejandro Sánchez, César Sánchez. *A Theory of Skiplists with Applications to the Verification of Concurrent Datatypes*. Proc. of the 3rd NASA Formal Methods Symposium (NFM’11), LNCS, Vol. 6447, pages 343–358, Springer, 2011.

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1. M. Carro, D. Karastoyanova, G. A. Lewis, A. Liu. *Third International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2011)*. ACM, May 2011.
2. M. Carro, J.H. Reppy. *ACM SIGPLAN Proceedings of the Workshop on Declarative Aspects of Multicore Programming*. ACM, January 2011.

3. Diana Ramírez-Deantes. *Modular and field-sensitive termination analysis of java bytecode*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, 2011.

Invited Papers and Tutorials:

1. M. V. Hermenegildo, F. Bueno, M. Carro, P. Lopez-Garcia, R. Haemmerlé, E. Mera, J. F. Morales, G. Puebla. *An Overview of the Ciao System*. Proc. of RuleML-Europe 2011, LNCS, Vol. 6826, pages 2–3, Springer-Verlag, July 2011. (abstract of invited talk).

Articles in Books and Other Collections:

1. M. Carro, M. V. Hermenegildo. *Logic Languages*. Encyclopedia of Parallel Computing, pages 1057–1068, Springer, 2011.

Publications in Refereed Workshops:

1. F. Bueno, M. García de la Banda, M. V. Hermenegildo, P. Lopez-Garcia, E. Mera, P. J. Stuckey. *Towards Resource Usage Analysis of MiniZinc Models*. MiniZinc Workshop (MZN’11), 15 pages, September 2011.
2. E. Albert, R. Bubel, S. Genaim, R. Hähnle, G. Román-Díez. *Verified Resource Guarantees for Heap Manipulating Programs*. 10th KeY Symposium, August 2011.
3. P. Lopez-Garcia, L. Darmawan, F. Bueno, M. V. Hermenegildo. *Interval-based Resource Usage Verification: Formalization and Prototype*. 2nd International Workshop on Foundational and Practical Aspects of Resource Analysis (FOPARA’2011), May 2011.
4. Diego Alonso, Puri Arenas, Samir Genaim. *Handling Non-linear Operations in the Value Analysis of COSTA*. Proceedings of the Bytecode 2011 workshop, the Sixth Workshop on Bytecode Semantics, Verification, Analysis and Transformation (Bytecode), Electronic Notes in Theoretical Computer Science, Vol. 279 Issue 1, pages 3–17, Elsevier, 2011.
5. M. V. Hermenegildo, F. Bueno, M. Carro, P. Lopez-Garcia, E. Mera, J.F. Morales, G. Puebla. *The Ciao Approach to the Dynamic vs. Static Language Dilemma*. Proceedings for the International Workshop on Scripts to Programs (STOP’11), 4 pages, ACM, 2011.

Technical Reports and Manuals:

1. F. Bueno, M. Carro, M. V. Hermenegildo, R. Haemmerlé, P. Lopez-Garcia, E. Mera, J.F. Morales, G. Puebla-(Eds.). *The Ciao System. Ref. Manual (V1.14)*. July 2011. Available at <http://ciao-lang.org>.
2. M. V. Hermenegildo, J.F. Morales. *The LPdoc Documentation Generator. Ref. Manual (V3.0)*. July 2011. Available at <http://ciao-lang.org>.
3. R. Haemmerlé. *Toward Observational Equivalences for Linear Logic Concurrent Constraint Languages*. Num. CLIP5/2011.0, 32 pages, Technical University of Madrid (UPM), May 2011.
4. P. Lopez-Garcia, L. Darmawan, F. Bueno, M. V. Hermenegildo. *Towards Resource Usage Function Verification based on Input Data Size Intervals*. Num. CLIP4/2011.0, Technical University of Madrid (UPM), April 2011. Available at <http://cliplab.org/papers/resource-verif-11-tr.pdf>.
5. R. Haemmerlé. *Towards a Logically Complete Fixpoint Semantics for Constraint Handling Rules*. Num. CLIP3/2011.0, 31 pages, Technical University of Madrid (UPM), March 2011.

6. P. Chico de Guzmán, A. Casas, M. Carro, M. V. Hermenegildo. *A Simulation Study on Parallel Backtracking with Solution Memoing for Independent And-Parallelism*. Num. CLIP1/2011.0, 12 pages, Technical University of Madrid (UPM), January 2011.
7. J.F. Morales, M. V. Hermenegildo, R. Haemmerlé. *Towards Modular Extensions for a Modular Language*. Num. CLIP2/2011.0, 15 pages, Technical University of Madrid (UPM), January 2011.

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Articles in Refereed Journals:

1. M. Gómez-Zamalloa, E. Albert, G. Puebla. *Test Case Generation for Object-Oriented Imperative Languages in CLP*. Theory and Practice of Logic Programming, 26th Int'l. Conference on Logic Programming (ICLP'10) Special Issue, Vol. 10 (4–6), pages 659–674, Cambridge U. Press, July 2010.
2. P. Chico de Guzmán, M. Carro, David S. Warren. *Swapping Evaluation: A Memory-Scalable Solution for Answer-On-Demand Tabling*. Theory and Practice of Logic Programming, 26th Int'l. Conference on Logic Programming (ICLP'10) Special Issue, Vol. 10 (4–6), pages 401–416, Cambridge U. Press, July 2010.
3. A. Stivala, P. J. Stuckey, M. García de la Banda, M. V. Hermenegildo, A. Wirth. *Lock-free Parallel Dynamic Programming*. Journal of Parallel and Distributed Computing, Vol. 70, Num. 8, pages 839–848, Elsevier, 2010.
4. Nicolas Fay, Simon Garrod, Leo Roberts, Nik Swoboda. *The Interactive Evolution of Human Communication Systems*. Cognitive Science, Vol. 34, pages 351–386, 2010.
5. Simon Garrod, Nicolas Fay, Shane Rogers, Bradley Walker, Nik Swoboda. *Can Iterated Learning Explain the Emergence of Graphical Symbols?*. Interaction Studies, Vol. 11, pages 33–50, 2010.
6. P. Lopez-Garcia, F. Bueno, M. V. Hermenegildo. *Automatic Inference of Determinacy and Mutual Exclusion for Logic Programs Using Mode and Type Analyses*. New Generation Computing, Vol. 28, Num. 2, pages 117–206, Ohmsha, Ltd. and Springer, 2010.

Articles in Refereed Conferences:

1. T. Trigo, P. Lopez-Garcia, S. Muñoz-Hernandez. *Towards Fuzzy Granularity Control in Parallel/Distributed Computing*. International Conference on Fuzzy Computation (ICFC 2010), pages 43–55, SciTePress, October 2010.
2. E. Albert, P. Arenas, S. Genaim, G. Puebla, D. Ramírez. *From Object Fields to Local Variables: a Practical Approach to Field-Sensitive Analysis*. Static Analysis Symposium (SAS'10), LNCS, pages 100–116, Springer, September 2010.
3. P. Lopez-Garcia, L. Darmawan, F. Bueno. *A Framework for Verification and Debugging of Resource Usage Properties: Resource Usage Verification*. Technical Communications of the 26th Int'l. Conference on Logic Programming (ICLP'10), Leibniz International Proceedings in Informatics (LIPIcs), Vol. 7, pages 104–113, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, July 2010.
4. E. Albert, S. Genaim, M. Gómez-Zamalloa. *Parametric Inference of Memory Requirements for Garbage Collected Languages*. 9th International Symposium on Memory Management (ISMM'10), pages 121–130, ACM Press, June 2010.
5. D. Ivanović, M. Carro, M. V. Hermenegildo. *Automatic Fragment Identification in Workflows Based on Sharing Analysis*. Service-Oriented Computing – ICSOC 2010, LNCS, Vol. 6470, pages 350–364, Springer Verlag, 2010.
6. Mohamed Anis Zemni, Salima Benbernou, M. Carro. *A Soft Constraint-Based Approach to QoS-Aware Service Selection*. Service-Oriented Computing – ICSOC 2010, LNCS, Vol. 6470, pages 596–602, Springer Verlag, 2010.

7. E. Albert, M. Gómez-Zamalloa, G. Puebla. *PET: A Partial Evaluation-based Test Case Generation Tool for Java Bytecode*. ACM SIGPLAN Workshop on Partial Evaluation and Semantics-based Program Manipulation (PEPM'10), pages 25–28, ACM Press, 2010.
8. E. Albert, P. Arenas, S. Genaim, I. Herraiz, G. Puebla. *Comparing Cost Functions in Resource Analysis*. 1st International Workshop on Foundational and Practical Aspects of Resource Analysis (FOPARA'09), Lecture Notes in Computer Science, Vol. 6234, pages 1–17, Springer, 2010.
9. L. Scandolo, C. Kunz, G. Barthe, M. V. Hermenegildo. *Program Parallelization using Synchronized Pipelining*. Proceedings of the 19th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'09), LNCS, Vol. 6037, pages 173–187, Springer, 2010.
10. D. Ivanović, M. Carro, M. V. Hermenegildo. *Towards Data-Aware QoS-Driven Adaptation for Service Orchestrations*. Proceedings of the 2010 IEEE International Conference on Web Services (ICWS 2010), Miami, FL, USA, 5-10 July 2010, pages 107–114, IEEE, 2010.
11. D. Ivanović, M. Treiber, M. Carro, S. Dustdar. *Building Dynamic Models of Service Compositions With Simulation of Provision Resources*. Proceedings of the 29th International Conference on Conceptual Modeling (ER 2010), Vancouver, Canada, 1-5 November 2010, LNCS 6412, pages 344–358, Springer, 2010.
12. Martin Leucker, César Sánchez. *Regular Linear-Time Temporal Logic*. Proceedings of the 17th International Symposium on Temporal Representation and Reasoning (TIME'10), pages 3–5, IEEE Computer Society, 2010.
13. Krishnendu Chatterjee, Luca de Alfaro, Vishwanath Raman, César Sánchez. *Analyzing the Impact of Change in Multi-threaded Programs*. Proc. of the 13th Int'l. Conf. on Fundamental Approaches to Software Engineering (FASE'10), LNCS, Vol. 6013, pages 293–307, Springer, 2010.
14. Alejandro Sánchez, César Sánchez. *Decision Procedures for the Temporal Verification of Concurrent Lists*. Proc. of the 12th Int'l. Conf. on Formal Engineering Methods (ICFEM'10), LNCS, Vol. 6447, pages 74–89, Springer, 2010.

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1. E. Mera. *A Unified Framework for Resource and Execution Time Analysis, Run-Time Checking and Unit-Testing*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, November 2010.
2. M. Teresa Trigo de la Vega. *Fuzzy Granularity Control in Parallel/Distributed Computing*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, 66 pages, September 2010.
3. M. V. Hermenegildo, T. Schaub. *Theory and Practice of Logic Programming. 26th Int'l. Conference on Logic Programming (ICLP'10) Special Issue*. Vol. 10 (4–6), pages 361–778, Cambridge University Press, July 2010.
4. M. V. Hermenegildo, T. Schaub. *Technical Communications of the 26th Int'l. Conference on Logic Programming (ICLP'10)*. Leibniz International Proceedings in Informatics (LIPIcs), Vol. 7, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, July 2010.
5. J.F. Morales. *Advanced Compilation Techniques for Logic Programming*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, July 2010.

6. M. V. Hermenegildo, J. Palsberg. *Proceedings of the 37th ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL 2010)*. ACM, January 2010.
7. M. Carro, R. Peña-Marí. *Practical Aspects of Declarative Languages – 12th. International Symposium, PADL 2010*. LNCS, Vol. 5937, Springer-Verlag, January 2010.
8. G. Barthe, M. V. Hermenegildo. *Verification, Model Checking, and Abstract Interpretation, 11th International Conference, VMCAI 2010*. LNCS, Vol. 5944, Springer, January 2010.

Invited Papers and Tutorials:

1. M. V. Hermenegildo, T. Schaub. *Introduction to the 26th Int'l. Conference on Logic Programming (ICLP'10) Special Issue*. Vol. 10, Num. 4-6, pages 361–364, Cambridge University Press, July 2010.
2. M. V. Hermenegildo, T. Schaub. *Introduction to Technical Communications of the 26th Int'l. Conference on Logic Programming (ICLP'10)*. Technical Communications of the 26th Int'l. Conference on Logic Programming (ICLP'10), Leibniz International Proceedings in Informatics (LIPIcs), Vol. 7, pages 8–11, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, July 2010.
3. Elvira Albert. *From Termination to Cost (in Object-Oriented Languages)*. Workshop on Termination (WST'10), 1 pages, July 2010.

Articles in Books and Other Collections:

1. A. Metzger, S. Benbernou, M. Carro, M. Driss, G. Kecskemeti, R. Kazhamiakin, K. Krytikos, A. Mocchi, E. Di Nitto, B. Wetzstein, et al.. *Analytical Quality Assurance*. Service Research Challenges and Solutions for the Future Internet, LNCS, Vol. 6500, pages 209–270, Springer Verlag, 2010.
2. S. Benbernou, I. Brandic, C. Cappiello, M. Carro, M. Comuzzi, A. Kertész, K. Kritikos, M. Parkin, B. Pernici, P. Plebani. *Modeling and Negotiating Service Quality*. Service Research Challenges and Solutions for the Future Internet, LNCS, Vol. 6500, pages 157–208, Springer Verlag, 2010.

Publications in Refereed Workshops:

1. D. Ivanović, M. Carro, M. V. Hermenegildo. *An Initial Proposal for Data-Aware Resource Analysis of Orchestrations with Applications to Predictive Monitoring*. International Workshops, ICSOC/ServiceWave 2009, Revised Selected Papers, LNCS, Num. 6275, Springer, September 2010.
2. E. Albert, M. Gómez-Zamalloa, J.M. Rojas, G. Puebla. *Towards Compositional CLP-based Test Data Generation for Imperative Languages*. 20th International Symposium on Logic-Based Program Synthesis and Transformation (LOPSTR'10), pages 47–57, July 2010. Extended Abstract.
3. R. Haemmerlé. *(Co)inductive Semantics for Constraint Handling Rules*. Annual ERCIM Workshop on Constraint Solving and Constraint Logic Programming, 2010.

Technical Reports and Manuals:

1. D. Ivanović, M. Carro, M. V. Hermenegildo. *Automated Attribute Inference in Complex Service Workflows Based on Sharing Analysis*. Num. CLIP5/2010.0, Technical University of Madrid (UPM), December 2010.

2. D. Ivanović, M. Carro, M. V. Hermenegildo. *Automatic Fragment Identification in Workflows Based on Sharing Analysis*. Num. CLIP4/2010.0, 15 pages, Technical University of Madrid (UPM), June 2010. Submitted.
3. E. Mera, T. Trigo, P. Lopez-Garcia, M. V. Hermenegildo. *An Approach to Profiling for Run-Time Checking of Computational Properties and Performance Debugging*. Num. CLIP3/2010.0, 29 pages, Technical University of Madrid (UPM), March 2010.
4. M. V. Hermenegildo, F. Bueno, M. Carro, P. Lopez-Garcia, E. Mera, J.F. Morales, G. Puebla. *An Overview of Ciao and its Design Philosophy*. Num. CLIP2/2010.0, Technical University of Madrid (UPM), March 2010. Under consideration for publication in *Theory and Practice of Logic Programming (TPLP)*.
5. D. Ivanović, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, E. Mera. *Towards Data-Aware Cost-Driven Adaptation for Service Orchestrations*. Num. CLIP5/2009.1, Technical University of Madrid (UPM), March 2010.
6. P. Lopez-Garcia, L. Darmawan, F. Bueno, M. V. Hermenegildo. *Towards a Framework for Resource Usage Verification and Debugging in the CiaoPP System*. Num. CLIP1/2010.0, Technical University of Madrid (UPM), February 2010. Available at <http://cliplab.org/papers/resource-veri>

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Articles in Refereed Journals:

1. M. Gómez-Zamalloa, E. Albert, G. Puebla. *Decompilation of Java Bytecode to Prolog by Partial Evaluation*. Information and Software Technology, Vol. 51, Num. 10, pages 1409–1427, Elsevier, October 2009.
2. D. Cabeza, M. Hermenegildo. *Non-Strict Independence-Based Program Parallelization Using Sharing and Freeness Information*. Theoretical Computer Science, Vol. 410, Num. 46, pages 4704–4723, Elsevier Science, October 2009.
3. E. Albert, J. Gallagher, M. Gómez-Zamalloa, G. Puebla. *Type-based Homeomorphic Embedding for Online Termination*. Information Processing Letters, Vol. 109, Num. 15, pages 879–886, Elsevier, July 2009.

Articles in Refereed Conferences:

1. E. Albert, P. Arenas, D. Alonso, S. Genaim, G. Puebla. *Asymptotic Resource Usage Bounds*. The Seventh Asian Symposium on Programming Languages and Systems (APLAS'09), Lecture Notes in Computer Science, Vol. 5904, pages 294–310, Springer, December 2009.
2. A. Herranz, J. Mariño, M. Carro, J.J. Moreno-Navarro. *Modeling Concurrent Systems with Shared Resources*. 14th International Workshop on Formal Methods for Industrial Critical Systems, Lecture Notes in Computer Science, Vol. 5825, pages 102–116, November 2009.
3. E. Albert, P. Arenas, S. Genaim, M. Gómez-Zamalloa, G. Puebla, D. Ramírez, G. Román, D. Zanardini. *Termination and Cost Analysis with COSTA and its User Interfaces*. Spanish Conference on Programming and Computer Languages (PROLE'09), ENTCS, Vol. 248, pages 109–121, Elsevier, September 2009.
4. G. Marpons, J. Mariño, M. Carro, A. Herranz, L.Å. Fredlund, J.J. Moreno-Navarro, A. Polo. *A Coding Rule Conformance Checker Integrated into GCC*. Spanish Conference on Programming and Computer Languages (PROLE'09), ENTCS, Vol. 258, pages 149–159, Elsevier, August 2009.
5. E. Mera, P. Lopez-Garcia, M. V. Hermenegildo. *Integrating Software Testing and Run-Time Checking in an Assertion Verification Framework*. 25th Int'l. Conference on Logic Programming (ICLP'09), LNCS, Vol. 5649, pages 281–295, Springer-Verlag, July 2009.
6. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo. *A Tabling Implementation Based on Variables with Multiple Bindings*. International Conference on Logic Programming (ICLP 2009), LNCS, Num. 5649, pages 190–204, Springer-Verlag, July 2009.
7. E. Albert, S. Genaim, M. Gómez-Zamalloa. *Live Heap Space Analysis for Languages with Garbage Collection*. 8th international symposium on Memory management, pages 129–138, ACM Press, June 2009.
8. M. Marron, D. Kapur, M. V. Hermenegildo. *Identification of Logically Related Heap Regions*. ISMM'09: Proceedings of the 8th international symposium on Memory management, ACM Press, June 2009.
9. E. Albert, M. Gómez-Zamalloa, G. Puebla. *Test Data Generation of Bytecode by CLP Partial Evaluation*. 18th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'08), LNCS, Vol. 5438, pages 4–23, Springer-Verlag, March 2009.

10. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo. *Towards a Complete Scheme for Tabled Execution Based on Program Transformation*. 11th International Symposium on Practical Aspects of Declarative Languages (PADL'09), LNCS, Num. 5418, pages 224–238, Springer-Verlag, January 2009.
11. E. Albert, P. Arenas, S. Genaim, G. Puebla. *Field-Sensitive Value Analysis by Field-Insensitive Analysis*. 16th International Symposium on Formal Methods (FM'09), Lecture Notes in Computer Science, Vol. 5850, pages 370–386, Springer, 2009.
12. Bradley Walker, Nicolas Fay, Shane Rogers, Nik Swoboda. *Experimental Investigation of the Role of Collaboration in the Evolution of Communication Systems*. Proceedings of the 31st Annual Conference of the Cognitive Science, pages 1388–1393, Cognitive Science Society, 2009.

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1. M. Gómez-Zamalloa. *Transformation and Analysis of Object-Oriented Bytecode*. Ph.D. Thesis, Complutense University of Madrid, October 2009.
2. E. Albert, S. Genaim. *Proceedings of the Workshop on Bytecode Semantics, Verification, Analysis and Transformation*. Electronic Notes in Theoretical Computer Science, Vol. 253, Num. 5, pages 1–2, Elsevier - North Holland, March 2009.
3. G. Puebla, G. Vidal. *ACM SIGPLAN Partial Evaluation and Program Manipulation (PEPM'09)*. 200 pages, ACM Digital Library, January 2009.

Invited Papers and Tutorials:

1. Elvira Albert. *Upper Bounds on Memory Usage for Garbage-Collected Languages*. Workshop on Quantitative Analysis of Software (QA'09), 1 pages, June 2009.

Articles in Books and Other Collections:

1. E. Albert, P. Arenas, S. Genaim, G. Puebla, D. Zanardini. *Resource Usage Analysis and its Application to Resource Certification*. 9th International School on Foundations of Security Analysis and Design (FOSAD'09), Lecture Notes in Computer Science, Num. 5705, pages 258–288, Springer, 2009.

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1. D. Ivanović, M. Carro, M. V. Hermenegildo. *An Initial Proposal for Data-Aware Resource Analysis of Orchestrations with Applications to Proactive Monitoring*. Pre-proceedings of the 2nd Workshop on Monitoring, Adaptation and Beyond (MONA+), November 2009.
2. L. Scandolo, C. Kunz, G. Barthe, M. V. Hermenegildo. *Program Parallelization using Synchronized Pipelining*. Pre-proceedings of the 19th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR'09), September 2009.
3. D. Ivanović, J.F. Morales, M. Carro, M. V. Hermenegildo. *Towards Structured State Threading in Prolog*. CICLOPS 2009, 15 pages, July 2009.
4. J. Navas, M. Méndez-Lojo, M. V. Hermenegildo. *User-Definable Resource Usage Bounds Analysis for Java Bytecode*. Proceedings of the Workshop on Bytecode Semantics, Verification, Analysis and Transformation (BYTECODE'09), Electronic Notes in Theoretical Computer Science, Vol. 253, Num. 5, pages 65–82, Elsevier - North Holland, March 2009.

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1. D. Ivanović, M. Carro, M. V. Hermenegildo. *Sharing-Based Independence-Driven Fragment Identification for Service Orchestrations*. Num. CLIP7/2009.0, Technical University of Madrid (UPM), December 2009.
2. D. Ivanović, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, E. Mera. *Towards Data-Aware Cost-Driven Adaptation for Service Orchestrations*. Num. CLIP5/2009.0, Technical University of Madrid (UPM), November 2009. Replaced by a later version.
3. J.F. Morales, M. Carro, M. V. Hermenegildo. *Description and Optimization of Abstract Machines in a Dialect of Prolog*. Num. CLIP4/2009.0, Technical University of Madrid (UPM), October 2009.
4. D. Ivanović, M. Carro, M. V. Hermenegildo. *Towards Data-Aware Resource Analysis for Service Orchestrations*. Num. CLIP3/2009.0, Technical University of Madrid (UPM), June 2009.
5. E. Mera, P. Lopez-Garcia, M. V. Hermenegildo. *Towards Integrating Run-Time Checking and Software Testing in a Verification Framework*. Num. CLIP1/2009.0, 19 pages, Technical University of Madrid (UPM), March 2009.
6. P. Lopez-Garcia, F. Bueno, M. V. Hermenegildo. *Inferring Determinacy and Mutual Exclusion in Logic Programs Using Mode and Type Analysis*. Num. CLIP2/2009.0, Technical University of Madrid (UPM), February 2009.
7. F. Bueno, D. Cabeza, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla-(Eds.). *The Ciao System. Ref. Manual (V1.13)*. 2009. Available at <http://ciao-lang.org>.

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1. E. Albert, G. Puebla, M. V. Hermenegildo. *Abstraction-Carrying Code: A Model for Mobile Code Safety*. New Generation Computing, Vol. 26, Num. 2, pages 171–204, March 2008.
2. Samir Genaim, Andy King. *Inferring non-suspension conditions for logic programs with dynamic scheduling*. ACM Trans. Comput. Log., Vol. 9, Num. 3, 2008.

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1. M. Manciacopi, M. Carro, W.-J. van den Heuvel, M.P. Papazoglou. *Sound Multi-party Business Protocols for Service Networks*. Proceedings of the Sixth International Conference on Service Oriented Computing, LNCS, Vol. 5364, pages 302–316, Springer-Verlag, December 2008.
2. E. Trias, J. Navas, E. S. Ackley, S. Forrest, M. V. Hermenegildo. *Negative Ternary Set-Sharing*. International Conference on Logic Programming, ICLP, LNCS, Num. 5366, pages 301–316, Springer-Verlag, December 2008.
3. P. Chico de Guzmán, M. Carro, M. V. Hermenegildo. *A Sketch of a Complete Scheme for Tabled Execution Based on Program Transformation*. Int'l. Conference on Logic Programming, LNCS, Vol. 5366, pages 795–800, Springer Verlag, December 2008. Short paper.
4. A. Casas, M. Carro, M. V. Hermenegildo. *A High-Level Implementation of Non-Deterministic, Unrestricted, Independent And-Parallelism*. 24th International Conference on Logic Programming (ICLP'08), LNCS, Vol. 5366, pages 651–666, Springer-Verlag, December 2008.
5. M. Marron, M. Méndez-Lojo, M. Hermenegildo, D. Stefanovic, D. Kapur. *Sharing Analysis of Arrays, Collections, and Recursive Structures*. ACM WS on Program Analysis for Software Tools and Engineering (PASTE'08), ACM, November 2008.
6. M. Gómez-Zamalloa, E. Albert, G. Puebla. *Modular Decompilation of Low-Level Code by Partial Evaluation*. 8th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM'08), pages 239–248, IEEE Computer Society, September 2008.
7. D. Zanardini. *The Semantics of Abstract Program Slicing*. 8th International Working Conference on Source Code Analysis and Manipulation (SCAM'08), IEEE Computer Society, September 2008.
8. M. Marron, D. Kapur, D. Stefanovic, M. Hermenegildo. *Identification of Heap-Carried Data Dependence Via Explicit Store Heap Models*. 21st Int'l. WS on Languages and Compilers for Parallel Computing (LCPC'08), LNCS, Springer-Verlag, August 2008.
9. J. Morales, M. Carro, M. V. Hermenegildo. *Comparing Tag Scheme Variations Using an Abstract Machine Generator*. 10th Int'l. ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'08), pages 32–43, ACM Press, July 2008.
10. E. Mera, P. Lopez-Garcia, M. Carro, M. V. Hermenegildo. *Towards Execution Time Estimation in Abstract Machine-Based Languages*. 10th Int'l. ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'08), pages 174–184, ACM Press, July 2008.
11. Elvira Albert, Puri Arenas, Samir Genaim, German Puebla. *Automatic Inference of Upper Bounds for Recurrence Relations in Cost Analysis*. Static Analysis, 15th International Symposium, SAS 2008, Valencia, Spain, July 15-17, 2008, Proceedings, Lecture Notes in Computer Science, Vol. 5079, pages 221–237, Springer-Verlag, July 2008.

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2. M. Carro, B. Demoen. *Proceedings of CICLOPS 2008*. Num. CLIP10/2008.0, 408 pages, Technical University of Madrid, September 2008.
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1. C. Vaucheret, S. Guadarrama, S. Muñoz. *Fuzzy Prolog: A Simple General Implementation using CLP(R)*. 9th International Conference on Logic for Programming Artificial Intelligence and Reasoning, October 2002.
2. C. Vaucheret, F. Bueno. *More Precise yet Efficient Type Inference for Logic Programs*. 9th International Static Analysis Symposium (SAS'02), Lecture Notes in Computer Science, Vol. 2477, pages 102–116, Springer-Verlag, September 2002.
3. J. Gallagher, G. Puebla. *Abstract Interpretation over Non-Deterministic Finite Tree Automata for Set-Based Analysis of Logic Programs*. Fourth International Symposium on Practical Aspects of Declarative Languages, LNCS, Num. 2257, pages 243–261, Springer-Verlag, January 2002.

Books and Monographs:

1. M. Leuschel, F. Bueno. *Preproceedings of the International Workshop on Logic Based Program Development and Transformation*. 304 pages, Facultad de Informatica, September 2002.
2. Alberto Díez Zurdo. *Goal Reordering in Logic Programs with Unrestricted Parallelism and Explicit Dependencies*. Ms. Thesis, School of Computer Science, Technical University of Madrid, September 2002. In Spanish.
3. Alberto Díez Zurdo. *Paralelización Automática de Programas Lógicos en Tiempo de Compilación con Dependencias Explícitas*. Ms. Thesis, Universidad Politécnica de Madrid (UPM), Facultad de Informática, Madrid, 28660, September 2002. In Spanish.
4. M. Hermenegildo, G. Puebla. *Static Analysis – 9th. International Symposium*. LNCS, Num. 2477, 528 pages, Springer-Verlag, September 2002.

Invited Papers and Tutorials:

1. A. Herranz, P. Sánchez, M. Carro, J. Mariño. *Almejas gigantes e interfaces de usuario*. Novática – Revista de la Asociación de Técnicos en Informática, Num. 160-161, 8 pages, Asociación de Técnicos en Informática, November 2002. Journal available at <http://www.ati.es/novatica/>.
2. A. Herranz, J. Mariño, M. Carro, P. Sánchez. *No taléis el bosque por culpa de los árboles*. Novática – Revista de la Asociación de Técnicos en Informática, Num. 158-159, 10 pages, Asociación de Técnicos en Informática, July 2002. Journal available at <http://www.ati.es/novatica/>.
3. M. V. Hermenegildo, F. Bueno, G. Puebla, P. Lopez-Garcia. *Program Debugging and Validation Using Semantic Approximations and Partial Specifications*. 29 th. International Colloquium on Automata, Languages, and Programming (ICALP), LNCS, Num. 2380, pages 69–72, Springer-Verlag, July 2002.
4. M. Carro, P. Sánchez, J. Mariño, A. Herranz. *¡Queso!*. Novática – Revista de la Asociación de Técnicos en Informática, Num. 156-157, 7 pages, Asociación de Técnicos en Informática, March 2002. Journal available at <http://www.ati.es/novatica/>.
5. M. Carro, A. Herranz, J. Mariño, P. Sánchez. *Configuración de un aeropuerto*. Novática – Revista de la Asociación de Técnicos en Informática, Num. 155-156, 7 pages, Asociación de Técnicos en Informática, January 2002. Journal available at <http://www.ati.es/novatica/>.

6. M. Hermenegildo. *Parallelizing Irregular and Pointer-Based Computations Automatically: Results in Logic and Constraint Programming*. Constructive Methods for Parallel Programming, Advances in Computation: Theory and Practice, 1 pages, Nova Science, 2002. (abstract of invited talk).

Articles in Books and Other Collections:

1. R. Bagnara, M. Carro. *Foreign Language Interfaces for Prolog: a Terse Survey*. The ALP Newsletter, Vol. 15, Num. 2, The Association for Logic Programming, May 2002. Available from <https://dtai.cs.kuleuven.be/projects/ALP/newsletter/may02/index.html>.

Publications in Refereed Workshops:

1. J. Correas, F. Bueno. *A Configuration Framework for Distributed Logic Applications*. Proc. of the AGP'2002 Joint Conference on Declarative Programming, pages 123–137, Facultad de Informatica, September 2002.
2. J. Morales, M. Carro. *Improving the Compilation of Prolog to C Using Type Information: Preliminary Results*. Proceedings of the CBD 2002 / ITCLS 2002 CoLogNet Joint Workshop, pages 167–180, Facultad de Informatica, September 2002.
3. M. Carro. *The Amos Project: An Approach to Reusing Open Source Code*. Proceedings of the CBD 2002 / ITCLS 2002 CoLogNet Joint Workshop, pages 59–70, Facultad de Informática, September 2002.
4. M. Carro, C. Vaucheret, K.-K. Lau. *Proceedings of the CBD 2002 / ITCLS 2002 CoLogNet Joint Workshop*. Num. CLIP4/2002.0, Technical University of Madrid, September 2002.
5. M. Carro, M. Hermenegildo. *A Simple Approach to Distributed Objects in Prolog*. Colloquium on Implementation of Constraint and LOGic Programming Systems (ICLP associated workshop), July 2002.
6. C. Vaucheret, F. Bueno. *More Precise Yet Efficient Type Inference for Logic Programs*. Workshop on Logic Programming Environments, July 2002.
7. A. Pineda, F. Bueno. *The O'Ciao Approach to Object Oriented Logic Programming*. Colloquium on Implementation of Constraint and LOGic Programming Systems (ICLP associated workshop), July 2002.

Technical Reports and Manuals:

1. M. Carro, J. M. Gomez, J. Correas. *The AMOS Project: The Internal Query Language Design*. Num. CLIP1/2003.1, 77 pages, Technical University of Madrid, December 2002.
2. M. Carro, C. Daffara, G. Puebla. *The AMOS Project: An Approach to Reusing Open Source Software*. Num. CLIP3/2002.0, Technical University of Madrid, August 2002. Presented at the V Hispalinux Conference, Madrid, Spain.
3. F. Bueno, D. Cabeza, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla. *The Ciao Prolog System. Reference Manual (V1.8)*. Num. CLIP4/2002.1, School of Computer Science, Technical University of Madrid (UPM), May 2002. System and on-line version of the manual available at <http://ciao-lang.org>.
4. C. Vaucheret, F. Bueno. *Structural Type Widening*. Num. CLIP2/2001.1, Facultad de Informática, UPM, Technical University of Madrid (UPM), January 2002.

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Articles in Refereed Journals:

1. G. Gupta, E. Pontelli, K. Ali, M. Carlsson, M. V. Hermenegildo. *Parallel Execution of Prolog Programs: a Survey*. ACM Transactions on Programming Languages and Systems, Vol. 23, Num. 4, pages 472–602, ACM Press, July 2001.
2. D. Cabeza, M. Hermenegildo. *Distributed WWW Programming using (Ciao) Prolog and the PiLLOW Library*. Theory and Practice of Logic Programming, Vol. 1, Num. 3, pages 251–282, Cambridge U. Press, May 2001.

Articles in Refereed Conferences:

1. S. Muñoz, J.J. Moreno-Navarro, M. V. Hermenegildo. *Efficient Negation Using Abstract Interpretation*. Proc. of the Eighth International Conference on Logic Programming and Automated Reasoning, LNAI, 15 pages, Springer-Verlag, December 2001.
2. F. Bueno, M. García de la Banda, M. V. Hermenegildo, K. Marriott, G. Puebla, P. Stuckey. *A Model for Inter-module Analysis and Optimizing Compilation*. Logic-based Program Synthesis and Transformation, LNCS, Num. 2042, pages 86–102, Springer-Verlag, March 2001.

Books and Monographs:

1. M. Carro. *Some Contributions to the Study of Parallelism and Concurrency in Logic Programming*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informatica UPM, 28660-Boadilla del Monte, Madrid-Spain, November 2001.
2. L. Sterling, L. Naish, M. V. Hermenegildo. *Theory and Practice of Logic Programming – Special Issue: Logic Programming and the INTERNET*. Vol. 1, Num. 3, 131 pages, Cambridge U. Press, May 2001.

Invited Papers and Tutorials:

1. F. Bueno, D. Cabeza, M. Carro, J. Correas, J. Gómez, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla, C. Vaucheret. *Agent Programming in Ciao Prolog*. 10 th. Portuguese Conference on Artificial Intelligence (EPIA), LNAI, Num. 2258, 2 pages, Springer-Verlag, December 2001.

Articles in Books and Other Collections:

1. M. Carro, M. V. Hermenegildo. *Visualization Designs for Constraint Logic Programming*. Vol. 2, Num. 2, pages 27–34, Swiss Informatics Societies, April 2001. Also in UPGRADE. Available through <http://www.svifsi.ch/revue/>.
2. M. Carro, M. V. Hermenegildo. *Diseño de visualizaciones para programación lógica con restricciones*. Num. 150, pages 31–37, Asociación de Técnicos en Informática, March 2001.

Publications in Refereed Workshops:

1. C. Vaucheret, S. Guadarrama, S. Muñoz. *Fuzzy Prolog: A Simple Implementation using CLP(R)*. Constraints and Uncertainty, A CP2001 workshop, LNCS, Springer-Verlag, December 2001.

2. J. Correas, F. Bueno. *A Configuration Framework to Develop and Deploy Distributed Logic Applications*. ICLP01 Colloquium on Implementation of Constraint and LOGic Programming Systems, 15 pages, November 2001.

Technical Reports and Manuals:

1. F. Bueno, J. Correas. *Active Module Service*. Num. CLIP4/2001.1, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2001.
2. M. Carro, M. Hermenegildo. *Remote Execution and Mobile Objects in Ciao Prolog*. Num. CLIP3/2001.1, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2001.
3. F. Bueno, M. Hermenegildo, G. Puebla, P. J. Stuckey. *Safety for Logic Programs*. Num. CLIP1/2001.1, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2001.

22 CLIP Group's Publications in 2000

Articles in Refereed Journals:

1. M. Hermenegildo. *Parallelizing Irregular and Pointer-Based Computations Automatically: Perspectives from Logic and Constraint Programming*. Parallel Computing, Vol. 26, Num. 13–14, pages 1685–1708, Elsevier Science, December 2000.
2. M. García de la Banda, M. V. Hermenegildo, K. Marriott. *Independence in CLP Languages*. ACM Transactions on Programming Languages and Systems, Vol. 22, Num. 2, pages 269–339, ACM Press, March 2000.
3. M. V. Hermenegildo, G. Puebla, K. Marriott, P. Stuckey. *Incremental Analysis of Constraint Logic Programs*. ACM Transactions on Programming Languages and Systems, Vol. 22, Num. 2, pages 187–223, ACM Press, March 2000.
4. M. Codish, V. Lagoon, F. Bueno. *An algebraic approach to sharing analysis of logic programs*. Journal of Logic Programming, Vol. 42, Num. 2, pages 111–149, Elsevier - North Holland, February 2000.

Articles in Refereed Conferences:

1. C. Carreras, M. V. Hermenegildo. *Grid-based Histogram Arithmetic for the Probabilistic Analysis of Functions*. Symposium on Abstraction, Reformulation and Approximation (SARA-2000), LNAI, Springer-Verlag, July 2000.
2. D. Cabeza, M. V. Hermenegildo. *A New Module System for Prolog*. International Conference on Computational Logic, CL2000, LNAI, Num. 1861, pages 131–148, Springer-Verlag, July 2000.
3. M. V. Hermenegildo. *A Documentation Generator for (C)LP Systems*. International Conference on Computational Logic, CL2000, LNAI, Num. 1861, pages 1345–1361, Springer-Verlag, July 2000.
4. G. Puebla, F. Bueno, M. V. Hermenegildo. *Combined Static and Dynamic Assertion-Based Debugging of Constraint Logic Programs*. Logic-based Program Synthesis and Transformation (LOPSTR'99), LNCS, Num. 1817, pages 273–292, Springer-Verlag, March 2000.

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1. P. Deransart, M. V. Hermenegildo, J. Maluszynski. *Analysis and Visualization Tools for Constraint Programming*. LNCS, Num. 1870, 350 pages, Springer-Verlag, September 2000.
2. I. Martín. *Una Librería Gráfica para Prolog*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, July 2000. In Spanish.
3. P. Lopez-Garcia. *Non-failure Analysis and Granularity Control in Parallel Execution of Logic Programs*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informatica UPM, 28660-Boadilla del Monte, Madrid-Spain, June 2000.

Articles in Books and Other Collections:

1. M. Carro, M. V. Hermenegildo. *Tools for Search Tree Visualization: The APT Tool*. Analysis and Visualization Tools for Constraint Programming, LNCS, Num. 1870, pages 237–252, Springer-Verlag, September 2000.

2. G. Puebla, F. Bueno, M. V. Hermenegildo. *A Generic Preprocessor for Program Validation and Debugging*. Analysis and Visualization Tools for Constraint Programming, LNCS, Num. 1870, pages 63–107, Springer-Verlag, September 2000.
3. G. Puebla, F. Bueno, M. V. Hermenegildo. *An Assertion Language for Constraint Logic Programs*. Analysis and Visualization Tools for Constraint Programming, LNCS, Num. 1870, pages 23–61, Springer-Verlag, September 2000.
4. P. Deransart, M. V. Hermenegildo, J. Maluszynski. *Debugging of Constraint Programs: The DiSCiPl Methodology and Tools*. Analysis and Visualization Tools for Constraint Programming, LNCS, Num. 1870, pages 1–20, Springer-Verlag, September 2000.
5. M. Carro, M. V. Hermenegildo. *Tools for Constraint Visualization: The VIFID/TRIFID Tool*. Analysis and Visualization Tools for Constraint Programming, LNCS, Num. 1870, pages 253–272, Springer-Verlag, September 2000.

Publications in Refereed Workshops:

1. S. Muñoz, J.J. Moreno-Navarro, M. V. Hermenegildo. *Efficient Implementation of General Negation Using Abstract Interpretation*. Proc. of the AGP'2000 Joint Conference on Declarative Programming, 15 pages, Italian Association for Logic Programming, December 2000.
2. F. Bueno, M. Garcia de la Banda, M. V. Hermenegildo, K. Marriott, G. Puebla, P. Stuckey. *A Model for Inter-module Analysis and Optimizing Compilation*. Tenth International Workshop on Logic-based Program Synthesis and Transformation, July 2000.
3. G. Puebla, M. V. Hermenegildo. *Some Issues in Analysis and Specialization of Modular Ciao-Prolog Programs*. Special Issue on Optimization and Implementation of Declarative Programming Languages, Electronic Notes in Theoretical Computer Science, Vol. 30, Num. 2, 25 pages, Elsevier - North Holland, March 2000.
4. D. Cabeza, M. V. Hermenegildo. *The Ciao Module System: A New Module System for Prolog*. Special Issue on Parallelism and Implementation of (C)LP Systems, Electronic Notes in Theoretical Computer Science, Vol. 30, Num. 3, Elsevier - North Holland, March 2000.
5. D. Cabeza, M. V. Hermenegildo. *The Ciao Modular, Standalone Compiler and Its Generic Program Processing Library*. Special Issue on Parallelism and Implementation of (C)LP Systems, Electronic Notes in Theoretical Computer Science, Vol. 30(3), Elsevier - North Holland, March 2000.
6. M. V. Hermenegildo. *A System for Automatically Generating Documentation for (C)LP Programs*. Special Issue on Parallelism and Implementation of (C)LP Systems, Electronic Notes in Theoretical Computer Science, Vol. 30, Num. 4, March 2000.
7. I. de Castro Dutra, V. Santos Costa, G. Gupta, E. Pontelli, M. Carro, P. Kacsuk (editors). *Parallelism and Implementation Technology for (Constraint) Logic Programming*. Electronic Notes in Theoretical Computer Science, Vol. 30, Num. 2, Elsevier - North Holland, March 2000.

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1. F. Bueno, D. Cabeza, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla. *The Ciao Prolog System. Reference Manual (V1.6)*. Num. CLIP5/2000.1, School of Computer Science, Technical University of Madrid (UPM), July 2000. System and on-line version of the manual available at <http://ciao-lang.org>.

2. J. Correas. *A Low-Level Bidirectional Prolog / Java Interface: Design and Prolog API*. Num. CLIP1/2000.1, 50 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2000.
3. J. Correas. *A Low-Level Bidirectional Prolog / Java Interface: Java API*. Num. CLIP2/2000.1, 80 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2000.
4. J. Correas. *An Object Oriented Bidirectional Prolog to Java Interface*. Num. CLIP3/2000.1, 30 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2000.
5. M. V. Hermenegildo, D. Cabeza, M. Rodriguez. *Using Ciao inside GNU Emacs*. Num. CLIP4/2000.1, 18 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), 2000.

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Articles in Refereed Journals:

1. G. Puebla, M. V. Hermenegildo. *Abstract Multiple Specialization and its Application to Program Parallelization*. J. of Logic Programming. Special Issue on Synthesis, Transformation and Analysis of Logic Programs, Vol. 41, Num. 2&3, pages 279–316, Elsevier - North Holland, November 1999.
2. F. Bueno, M. García de la Banda, M. V. Hermenegildo. *Effectiveness of Abstract Interpretation in Automatic Parallelization: A Case Study in Logic Programming*. ACM Transactions on Programming Languages and Systems, Vol. 21, Num. 2, pages 189–238, ACM Press, March 1999.
3. K. Muthukumar, F. Bueno, M. García de la Banda, M. Hermenegildo. *Automatic Compile-time Parallelization of Logic Programs for Restricted, Goal-level, Independent And-parallelism*. Journal of Logic Programming, Vol. 38, Num. 2, pages 165–218, Elsevier - North-Holland, February 1999.

Articles in Refereed Conferences:

1. M. Carro, M. Hermenegildo. *Concurrency in Prolog Using Threads and a Shared Database*. 1999 International Conference on Logic Programming, pages 320–334, MIT Press, Cambridge, MA, USA, November 1999.
2. G. Smedbäck, M. Carro, M. Hermenegildo. *Interfacing Prolog and VRML and its Application to Constraint Visualization*. The Practical Application of Constraint Technologies and Logic programming, pages 453–471, The Practical Application Company, April 1999.

Books and Monographs:

1. J.M. Gómez. *WebDB: Un Interfaz WWW a Bases de Datos Genérico*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, 156 pages, September 1999.
2. I. de Castro Dutra, M. Carro, V. Santos Costa, G. Gupta, E. Pontelli, F. Silva (editors). *Parallelism and Implementation of Logic and Constraint Logic Programming*. Nova Science Publishers, 1999.

Invited Papers and Tutorials:

1. M. V. Hermenegildo, F. Bueno, G. Puebla, P. Lopez-Garcia. *Program Analysis, Debugging and Optimization Using the Ciao System Preprocessor*. 1999 Int'l. Conference on Logic Programming, pages 52–66, MIT Press, November 1999.

Articles in Books and Other Collections:

1. M. V. Hermenegildo, G. Puebla, F. Bueno. *Using Global Analysis, Partial Specifications, and an Extensible Assertion Language for Program Validation and Debugging*. The Logic Programming Paradigm: a 25-Year Perspective, pages 161–192, Springer-Verlag, July 1999.
2. M. V. Hermenegildo, F. Bueno, D. Cabeza, M. Carro, M. García de la Banda, P. Lopez-Garcia, G. Puebla. *The CIAO Multi-Dialect Compiler and System: An Experimentation Workbench for Future (C)LP Systems*. Parallelism and Implementation of Logic and Constraint Logic Programming, pages 65–85, Nova Science, April 1999.

Publications in Refereed Workshops:

1. D. Cabeza, M. V. Hermenegildo. *A New Module System for Prolog*. ICLP'99 WS on Parallelism and Implementation of (C)LP Systems, pages 110–128, N.M. State U., December 1999.
2. D. Cabeza, M. V. Hermenegildo. *The Ciao Modular Compiler and Its Generic Program Processing Library*. ICLP'99 WS on Parallelism and Implementation of (C)LP Systems, pages 147–164, N.M. State U., December 1999.
3. M. V. Hermenegildo. *A Documentation Generator for Logic Programming Systems*. ICLP'99 Workshop on Logic Programming Environments, pages 80–97, N.M. State University, December 1999.
4. G. Puebla, M. V. Hermenegildo, J. Gallagher. *An Integration of Partial Evaluation in a Generic Abstract Interpretation Framework*. ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation (PEPM'99), BRISC Series, Num. NS-99-1, pages 75–85, University of Aarhus, Denmark, January 1999.

Technical Reports and Manuals:

1. D. Cabeza, M. V. Hermenegildo. *Higher-order Logic Programming in Ciao*. Num. CLIP7/99.0, 15 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), September 1999.
2. D. Cabeza, M. V. Hermenegildo. *A New Module System for Prolog*. Num. CLIP8/99.0, 15 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), September 1999.
3. D. Cabeza, M. V. Hermenegildo. *The Ciao Modular Compiler and Its Generic Program Processing Library*. Num. CLIP9/99.0, 15 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), September 1999.
4. M. V. Hermenegildo. *A Documentation Generator for Logic Programming Systems*. Num. CLIP10/99.0, 15 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), September 1999.
5. A. Pineda. *Object Oriented Programming Library (O'Ciao)*. Num. CLIP 6/99.0, Facultad de Informática, UPM, July 1999.
6. A. Pineda, M. Hermenegildo. *O'Ciao: An Object Oriented Programming Model for (CIAO) Prolog*. Num. CLIP 5/99.0, Facultad de Informática, UPM, July 1999.
7. Per Cederberg, The CLIP Group. *Flexible Layout and Styling – The LaSt Language*. Num. D2.2.M3 CLIP 3/99.0, 32 pages, RADIOWEB Project, June 1999.
8. Per Cederberg, The CLIP Group. *The LaSt Engine*. Num. D3.3.M3 CLIP 4/99.0, 42 pages, RADIOWEB Project, June 1999.
9. F. Bueno, D. Cabeza, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla. *The Ciao Prolog System. Reference Manual (V1.0)*. Num. CLIP11/99.1, School of Computer Science, Technical University of Madrid (UPM), June 1999. System and on-line version of the manual available at <http://ciao-lang.org>.
10. F. Bueno, P. Lopez-Garcia, G. Puebla, M. V. Hermenegildo, P. Pietrzak. *The CHIP Assertion Preprocessor*. Num. CLIP1/99.1, 50 pages, Technical University of Madrid (UPM), March 1999. Also as deliverable of the ESPRIT project DISCIPL.

11. M. Carro, M. Hermenegildo. *Some Issues in the Design of Visualizations for Constraint Logic Program Execution*. Num. CLIP2/99.1, 17 pages, Technical University of Madrid (UPM), March 1999. Also as deliverable of the ESPRIT project DISCIPL.

24 CLIP Group's Publications in 1998

Articles in Refereed Journals:

1. F. Bueno, M. V. Hermenegildo, U. Montanari, F. Rossi. *Partial Order and Contextual Net Semantics for Atomic and Locally Atomic CC Programs*. Science of Computer Programming, Vol. 30, pages 51–82, North-Holland, January 1998. Special CCP95 Workshop issue.

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1. G. Puebla, F. Bueno, M. V. Hermenegildo. *A Framework for Assertion-based Debugging in Constraint Logic Programming (abstract)*. Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP'98), LNCS, Num. 1520, pages 472–473, Springer-Verlag, October 1998.

Books and Monographs:

1. J.M. Ramos. *VIFID: Variable Visualization for Constraint Domains*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, September 1998.

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1. M. Carro, M. V. Hermenegildo. *Some Design Issues in the Visualization of Constraint Program Execution*. AGP'98 Joint Conference on Declarative Programming, pages 71–86, July 1998.
2. G. Puebla, F. Bueno, M. V. Hermenegildo. *A Framework for Assertion-based Debugging in Constraint Logic Programming*. Proceedings of the JICSLP'98 Workshop on Types for CLP, pages 3–15, June 1998.

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1. D. Cabeza, S. Genaim, C. Taboch. *WOF Interpreter and GDA Installation Guide and Demo*. Num. D3.1.M2-A4, 10 pages, RADIOWEB Project, December 1998.
2. J.M. Gomez, D. Cabeza, M. V. Hermenegildo. *persdb: Persistent Database Interface*. Num. CLIP9/98.0, 24 pages, December 1998.
3. I. Caballero, D. Cabeza, S. Genaim, J.M. Gomez, M. V. Hermenegildo. *persdb_sql: SQL Persistent Database Interface*. Num. CLIP10/98.0, 39 pages, December 1998.
4. J.M. Gomez, D. Cabeza, M. V. Hermenegildo. *WebDB: A Database WWW Interface*. Num. CLIP11/98.0, 32 pages, December 1998.
5. M. V. Hermenegildo, G. Puebla, F. Bueno. *Using Global Analysis, Partial Specifications, and an Extensible Assertion Language for Program Validation and Debugging*. Num. CLIP8/98.0, Technical University of Madrid (UPM), October 1998.
6. D. Cabeza, M. V. Hermenegildo, S. Genaim, C. Taboch. *Design of a Generic, Homogeneous Interface to Relational Databases*. Num. D3.1.M1-A1, CLIP7/98.0, 10 pages, September 1998.
7. J.M. Ramos. *vifid: Variable Visualization for Finite Domains*. Num. CLIP4/98.0, 58 pages, Technical University of Madrid, September 1998.

8. J.M. Ramos, M. Carro. *VIFID User's Manual*. Num. CLIP3/98.0, 25 pages, Technical University of Madrid, September 1998.
9. F. Bueno, D. Cabeza, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla. *The Ciao Prolog System. Reference Manual (V0.6)*. Num. CLIP12/98.1, School of Computer Science, Technical University of Madrid (UPM), July 1998. System and on-line version of the manual available at <http://ciao-lang.org>.
10. D. Cabeza, M. V. Hermenegildo. *A WWW Database Management Interface for Prolog*. Num. CLIP2/98.0, School of Computer Science, Technical University of Madrid (UPM), June 1998.
11. F. Bueno. *Using Assertions for Static Debugging of CLP: A Manual*. Num. CLIP1/98.0, 15 pages, DISCIPL Project/CLIP Group, UPM, June 1998.
12. D. Cabeza, S. Genaim, C. Taboch. *WOF Design*. Num. D2.1.M2, 14 pages, RADIOWEB Project, January 1998.
13. M. Carro, M. V. Hermenegildo, F. Bueno, D. Cabeza, M. J. García, P. Lopez-Garcia. *An Introductory Course on Constraint Logic Programming*. 130 pages, Technical University of Madrid, 1998.

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Articles in Refereed Journals:

1. M. Codish, M. Bruynooghe, M. García de la Banda, M. V. Hermenegildo. *Exploiting Goal Independence in the Analysis of Logic Programs*. Journal of Logic Programming, Vol. 32, Num. 3, pages 247–261, Elsevier - North Holland, September 1997.
2. M. V. Hermenegildo. *Some Challenges for Constraint Programming*. The Constraints Journal, Vol. 2, Num. 1, pages 63–69, Kluwer Academic Publishers, 1997. Special issue on strategic directions in constraint programming.

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