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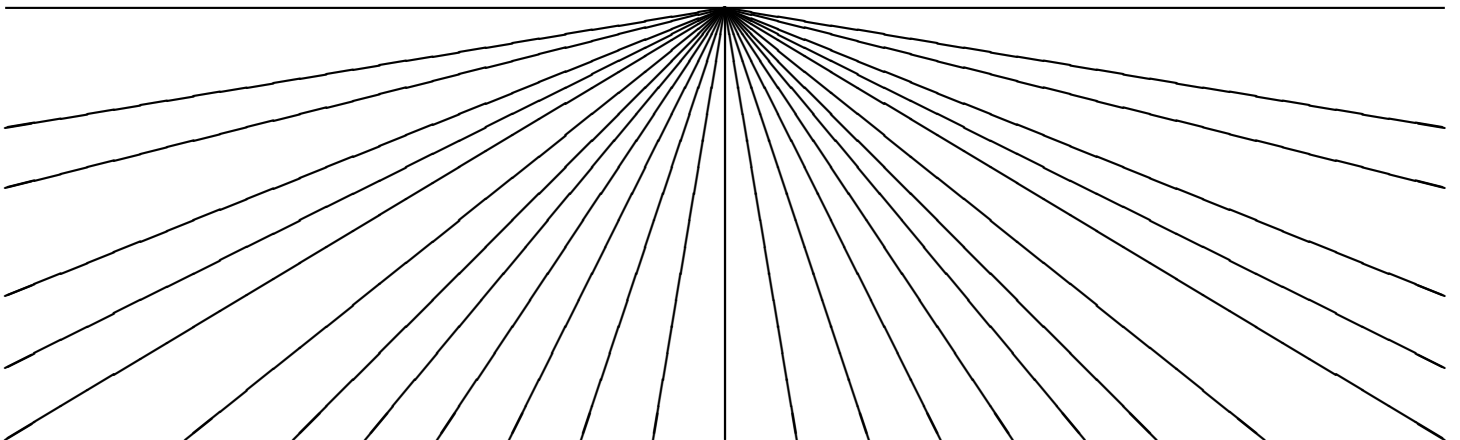
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CLIP Group Publications by Topic

The CLIP Group

TR Number CLIP-PubsBytopic/2024.2393

Printing date: April 23, 2024



CLIP Group Publications by Topic

Technical Report Number: CLIP-PubsBytopic/2024.2393

Printing date: April 23, 2024

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Keywords

Publications, By Topic, CLIP Group

Acknowledgements

The work presented in these papers has been carried out in collaboration with numerous other researchers (co-authors of the papers) and institutions, and has been funded in part by a number of public and private agencies. Please refer the CLIP group list of funded research projects for a list of such institutitons.

Abstract

This document provides a unified list of publications by the CLIP group members, *classified by research topic* (as well as by type of publication – journal, book, invited, workshop, etc.). A list of publications classified by year of publication 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 temas* (así como por tipo de publicación – revista, libro, invitado, workshop, etc.). También se dispone de una lista de publicaciones clasificada por año de publicación. 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 Publications in Verification, Specification, Testing, Debugging

Articles in Refereed Journals:

1. 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, Vol. FirstView, pages 1–69, Cambridge U. Press, November 2021.
2. M.A. Sanchez-Ordaz, I. Garcia-Contreras, V. Perez-Carrasco, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *VeriFly: On-the-fly Assertion Checking via Incrementality*. Theory and Practice of Logic Programming, Vol. 21, Num. 6, pages 768–784, Cambridge U. Press, September 2021. Special Issue on ICLP’21.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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>.
9. 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.
10. 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.
11. 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.

12. 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.
13. 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.
14. 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.
15. M. V. Hermenegildo, G. Puebla, F. Bueno, P. Lopez-Garcia. *Integrated Program Debugging, Verification, and Optimization Using Abstract Interpretation (and The Ciao System Preprocessor)*. Science of Computer Programming, Vol. 58, Num. 1–2, pages 115–140, Elsevier North-Holland, October 2005.
16. 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.

Articles in Refereed Conferences:

1. Ignacio Casso, José F. Morales, Pedro López-García, Manuel V. Hermenegildo. *Testing Your (Static Analysis) Truths*. Logic-Based Program Synthesis and Transformation - 30th International Symposium, Post-Proceedings, Lecture Notes in Computer Science, Vol. 12561, pages 271–292, Springer, 2021.
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. 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, Vol. 12042, pages 36–56, Springer, 2020.
5. 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.
6. 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.
7. 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.

8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

21. 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.
22. 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.
23. 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.
24. 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.
25. M. Méndez-Lojo, M. Hermenegildo. *Precise Set Sharing Analysis for Java-style Programs*. 9th International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI'08), LNCS, Num. 4905, pages 172–187, Springer-Verlag, January 2008.
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28. E. Albert, S. Genaim, M. Gómez-Zamalloa. *Heap Space Analysis for Java Bytecode*. Proceedings of the 6th International Symposium on Memory Management (ISMM'07), pages 105–116, ACM Press, October 2007.
29. P. Pietrzak, M. V. Hermenegildo. *Automatic Binding-related Error Diagnosis in Logic Programs*. International Conference on Logic Programming (ICLP'07), LNCS, Num. 4670, pages 333–347, Springer-Verlag, September 2007.
30. M. Méndez-Lojo, J. Navas, M. Hermenegildo. *A Flexible (C)LP-Based Approach to the Analysis of Object-Oriented Programs*. 17th International Symposium on Logic-based Program Synthesis and Transformation (LOPSTR 2007), Lecture Notes in Computer Science, Num. 4915, pages 154–168, Springer-Verlag, August 2007.
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32. E. Albert, P. Arenas, G. Puebla. *An Incremental Approach to Abstraction-Carrying Code*. 13th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR'06), LNCS, Num. 4246, pages 377–391, Springer-Verlag, November 2006.
33. P. Pietrzak, J. Correas, G. Puebla, M. V. Hermenegildo. *Context-Sensitive Multivariant Assertion Checking in Modular Programs*. 13th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR'06), LNCS, Num. 4246, pages 392–406, Springer-Verlag, November 2006.

34. E. Albert, P. Arenas, G. Puebla, M. Hermenegildo. *Reduced Certificates for Abstraction-Carrying Code*. 22nd International Conference on Logic Programming (ICLP 2006), LNCS, Num. 4079, pages 163–178, Springer-Verlag, August 2006.
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36. E. Albert, G. Puebla, M. V. Hermenegildo. *Experiments in Abstract Interpretation-based Code Certification for Pervasive Systems*. Proc. of 2004 IEEE Conference on Systems, Man & Cybernetics (Special Session on Correctness and Reliability for Pervasive/Ubiquitous Computing), 6 pages, IEEE, October 2004.
37. E. Albert, G. Puebla, M. V. Hermenegildo. *Abstract Interpretation-based Mobile Code Certification*. Proc. of International Conference on Logic Programming (ICLP'04), LNCS, Num. 3132, pages 446–447, Springer-Verlag, September 2004. Extended Abstract.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. G. Puebla, M. Comini, W. Drabent, M. Ducass, M. Fabris, M. Meier, Ch. Schulte. *Tools and Environments for Constraint Logic Programming*. International Logic Programming Symposium, pages 417–418, October 1997. Workshop abstract.
44. M. Carro, L. Gómez, M. Hermenegildo. *Some Paradigms for Visualizing Parallel Execution of Logic Programs*. 1993 International Conference on Logic Programming, pages 184–201, MIT Press, June 1993.

Books and Monographs:

1. David S. Warren, Veronica Dahl, Thomas Eiter, Manuel Hermenegildo, Robert Kowalski, Francesca Rossi. *Prolog - The Next 50 Years*. LNCS, Num. 13900, Springer, July 2023.
2. I. Garcia-Contreras. *A Scalable Static Analysis Framework for Reliable Program Development Exploiting Incrementality and Modularity*. Ph.D. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 42 pages, July 2021. Advisors: M. V. Hermenegildo and Jose F. Morales.

3. Casso, Ignacio. *An Integrated Approach to Assertion-Based Random Testing in Logic Languages*. Ms. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 42 pages, July 2021. MSc Thesis.
4. Pérez Carrasco, Víctor. *Improvements to Parametric Cost Analysis and its Application to Smart Contracts*. Ms. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 63 pages, July 2021. MSc Thesis.
5. Maximiliano Klemen. *A General Framework for Static Resource Analysis and Profiling of (Parallel) Programs and an Application to Runtime Checking*. Ph.D. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, March 2021.
6. Pérez Carrasco, Víctor. *Analysis of Smart Contracts using Horn Clauses*. Ms. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 76 pages, June 2020. BSc Thesis.
7. 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.
8. Casso, Ignacio. *Towards Computing Distances Among Abstract Interpretations*. Ms. Thesis, Universidad Complutense de Madrid, 60 pages, June 2018. BSc Thesis.
9. Nataliia 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.
10. 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.
11. 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.
12. M. Méndez-Lojo. *A Generic Approach to Bytecode Analysis*. Ph.D. Thesis, University of New Mexico (UNM), Department of Computer Science, University of New Mexico, Albuquerque, NM 87131-0001 (USA), August 2008.
13. J. Navas. *Analysis and Inference of Resource Usage Information*. Ph.D. Thesis, University of New Mexico (UNM), Department of Computer Science, University of New Mexico, Albuquerque, NM 87131-0001 (USA), August 2008.
14. J. Correas. *Analysis and Verification of Modular Programs*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, June 2008.
15. D. Cabeza. *An Extensible, Global Analysis Friendly Logic Programming System*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, August 2004.
16. P. Deransart, M. V. Hermenegildo, J. Maluszynski. *Analysis and Visualization Tools for Constraint Programming*. LNCS, Num. 1870, 350 pages, Springer-Verlag, September 2000.
17. 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.

18. G. Puebla. *Advanced Compilation Techniques based on Abstract Interpretation and Program Transformation*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informatica UPM, 28660-Boadilla del Monte, Madrid-Spain, November 1997.
19. A. López Luengo. *APT: implementación de un visualizador gráfico de la ejecución de programas lógicos*. Ms. Thesis, Technical University of Madrid, School of Computer Science, E-28660, Boadilla del Monte, Madrid, Spain, October 1997. In Spanish.

Invited Papers and Tutorials:

1. M.V. Hermenegildo, I. Garcia-Contreras, J.F. Morales, P. Lopez-Garcia, L. Rustenholtz, D. Ferreira, D. Jurjo. *On-the-fly Verification via (Incremental, Interactive) Abstract Interpretation with CiaoPP and Verify*. October 2023. Invited talk at LOPSTR'23 (w/SPLASH'23).
2. M. V. Hermenegildo. *50-Years of Prolog and Beyond (invited talk)*. November 2022. Keynote given at the Prolog 50th Anniversary 'Prolog Day Symposium'.
3. M. V. Hermenegildo. *Some reflections on Prolog's evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP'22 at FLoC'22), August 2022.
4. 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.
5. M. V. Hermenegildo, I. Garcia-Contreras, J. Morales, P. Lopez-Garcia, M. Klemen, I. Casso. *Multivariate 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.
6. 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.
7. 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.
8. 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).
9. Elvira Albert. *From Termination to Cost (in Object-Oriented Languages)*. Workshop on Termination (WST'10), 1 pages, July 2010.
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18. J. Correas. *Analysis and Verification of Modular Programs*. Ph.D. Thesis, Universidad Politécnica de Madrid (UPM), Facultad Informática UPM, 28660-Boadilla del Monte, Madrid-Spain, June 2008.
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31. M. García de la Banda. *Implementación de un Intérprete Abstracto de Programas Prolog sobre el Dominio “sharing + freeness” (Implementation and Evaluation of an Abstract Interpreter over the “sharing + freeness” Domain)*. Ms. Thesis, T. University of Madrid (UPM), Facultad de Informática, Madrid, 28660, December 1991.

Invited Papers and Tutorials:

1. M.V. Hermenegildo, I. Garcia-Contreras, J.F. Morales, P. Lopez-Garcia, L. Rustenholtz, D. Ferreiro, D. Jurjo. *On-the-fly Verification via (Incremental, Interactive) Abstract Interpretation with CiaoPP and Verify*. October 2023. Invited talk at LOPSTR’23 (w/SPLASH’23).
2. M. V. Hermenegildo. *50-Years of Prolog and Beyond (invited talk)*. November 2022. Keynote given at the Prolog 50th Anniversary ‘Prolog Day Symposium’.
3. M. V. Hermenegildo. *Some reflections on Prolog’s evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP’22 at FLoC’22), August 2022.
4. 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.
5. J. Gallagher, M. V. Hermenegildo, B. Kaffe, 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.
6. 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.
7. 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.

8. 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.
9. 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).
10. 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).
11. 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.
12. Elvira Albert. *From Termination to Cost (in Object-Oriented Languages)*. Workshop on Termination (WST'10), 1 pages, July 2010.
13. Elvira Albert. *Upper Bounds on Memory Usage for Garbage-Collected Languages*. Workshop on Quantitative Analysis of Software (QA'09), 1 pages, June 2009.
14. G. Barthe, L. Beringer, P. Crégut, B. Grégoire, M. Hofmann, P. Müller, E. Poll, G. Puebla, I. Stark, E. Vétillard. *MOBIUS: Mobility, Ubiquity, Security: Objectives and progress report*. Trustworthy Global Computing'06, LNCS, Num. 4661, pages 10–29, Springer, March 2007.
15. The Ciao Development Team. *The Ciao Multiparadigm Language and Program Development Environment*. 6 pages, November 2006. The ALP Newsletter 19(3). The Association for Logic Programming..
16. G. Puebla, E. Albert, P. Arenas, M. V. Hermenegildo. *On Abstraction-Carrying Code and Certificate-Size Reduction*. 1st International Workshop on Emerging Applications of Abstract Interpretation (EAAI 2006), 15 pages, March 2006.
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18. M. V. Hermenegildo, E. Albert, P. Lopez-Garcia, G. Puebla. *Abstraction Carrying Code and Resource-Awareness*. 7th ACM-SIGPLAN International Symposium on Principles and Practice of Declarative Programming (PPDP'05), pages 1–11, ACM Press, July 2005.
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20. G. Puebla, M. V. Hermenegildo. *Abstract Specialization and its Applications*. ACM Partial Evaluation and Semantics based Program Manipulation (PEPM'03), pages 29–43, ACM Press, June 2003. Invited talk.
21. M. V. Hermenegildo, G. Puebla, F. Bueno, P. Lopez-Garcia. *Program Development Using Abstract Interpretation (and The Ciao System Preprocessor)*. 10th International Static Analysis Symposium (SAS'03), LNCS, Num. 2694, pages 127–152, Springer-Verlag, June 2003.

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23. 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.
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25. M. Hermenegildo, The CLIP Group. *Programming with Global Analysis*. Proceedings of ILPS'97, pages 49–52, MIT Press, October 1997. (abstract of invited talk).
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27. S.K. Debray, P. Lopez-Garcia, M. V. Hermenegildo, N.-W. Lin. *Estimating the Computational Cost of Logic Programs*. Static Analysis Symposium, SAS'94, LNCS, Num. 864, pages 255–265, Springer-Verlag, September 1994.
28. M. García de la Banda, M. V. Hermenegildo. *A Practical Application of Sharing and Freeness Inference*. 1992 Workshop on Static Analysis WSA'92, BIGRE, Num. 81–82, pages 118–125, IRISA-Beaulieu, September 1992.

Articles in Books and Other Collections:

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2. K. Georgiou, U. Liqat. *Towards LLVM-Based Energy Consumption Analysis of Programs*. ICT-Energy (Nanoenergy) Letters, Num. 8, pages 16–17, July 2014.
3. 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.
4. M. V. Hermenegildo, F. Bueno, M. Carro, P. Lopez-Garcia, J.F. Morales, G. Puebla. *An Overview of The Ciao Multiparadigm Language and Program Development Environment and its Design Philosophy*. Festschrift for Ugo Montanari, LNCS, Vol. 5065, pages 209–237, Springer-Verlag, June 2008.
5. G. Puebla, J. Correas, M. V. Hermenegildo, F. Bueno, M. García de la Banda, K. Marriott, P. J. Stuckey. *A Generic Framework for Context-Sensitive Analysis of Modular Programs*. Program Development in Computational Logic, A Decade of Research Advances in Logic-Based Program Development, LNCS, Num. 3049, pages 234–261, Springer-Verlag, August 2004.
6. 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.

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8. 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.
9. 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.
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Publications in Refereed Workshops:

1. M. Klemen, M.Á. Carreira-Perpiñán, P. Lopez-Garcia. *Solving Recurrence Relations using Machine Learning, with Application to Cost Analysis*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 155–168, Open Publishing Association (OPA), July 2023.
2. D. Jurjo, J. F. Morales, P. Lopez-Garcia, M.V. Hermenegildo. *Towards a rule-based approach for deriving abstract domains*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 55–58, Open Publishing Association (OPA), July 2023. (Extended Abstract).
3. D. Ferreiro, J.F. Morales, S. Abreu, M.V. Hermenegildo. *Demonstrating (Hybrid) Active Logic Documents and the Ciao Prolog Playground, and an Application to Verification Tutorials*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 324–330, Open Publishing Association (OPA), July 2023. See also associated poster at <https://cliplab.org/papers/hald-poster-iclp.pdf>.
4. Bishoksan Kafle, John P. Gallagher, Manuel V. Hermenegildo, Maximiliano Klemen, Pedro Lopez-Garcia, José F. Morales. *Regular Path Clauses and their Application in Solving Loops*. Proceedings of the Eighth International Workshop on Horn Clauses for Verification and Synthesis (HCVS 2021), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 344, pages 22–35, Open Publishing Association (OPA), August 2021. Co-located with ETAPS 2021.
5. M. A. Sanchez-Ordaz, I. Garcia-Contreras, V. Perez-Carrasco, J. F. Morales, P. Lopez-Garcia, M.V. Hermenegildo. *VeriFly: On-the-fly Assertion Checking with CiaoPP*. 6th Workshop on Formal Integrated Development Environment (F-IDE 2021, part of NASA NFM'21), Electronic Proceedings in Theoretical Computer Science (EPTCS), pages 1–5, Open Publishing Association (OPA), May 2021. Co-located with ETAPS 2021.
6. 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).
7. 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.

8. 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.
9. 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.
10. 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.
11. 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).
12. 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.
13. 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).
14. 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).
15. 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.
16. 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.
17. 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).
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19. 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.

20. 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.
21. 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).
22. 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.
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24. 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.
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28. 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.
29. 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.
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40. 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.
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2. M. V. Hermenegildo. *Some reflections on Prolog’s evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP’22 at FLoC’22), August 2022.
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1. Pérez Carrasco, Víctor. *Improvements to Parametric Cost Analysis and its Application to Smart Contracts*. Ms. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 63 pages, July 2021. MSc Thesis.
2. Pérez Carrasco, Víctor. *Analysis of Smart Contracts using Horn Clauses*. Ms. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 76 pages, June 2020. BSc Thesis.
3. M. Klemen. *Improved Static Analysis and Verification of Energy Consumption and other Resources via Abstract Interpretation*. Ms. Thesis, Technical University of Madrid, ETSI-Informática, E-28660, Boadilla del Monte, Madrid, Spain, 88 pages, July 2015.
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5. 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.
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7. P. Lopez-Garcia. *A System of Granularity Control in Parallel Logic Programs*. Ms. Thesis, T. University of Madrid (UPM), Facultad de Informática, Madrid, 28660, December 1993.

Invited Papers and Tutorials:

1. M.V. Hermenegildo, I. Garcia-Contreras, J.F. Morales, P. Lopez-Garcia, L. Rustenholtz, D. Ferreiro, D. Jurjo. *On-the-fly Verification via (Incremental, Interactive) Abstract Interpretation with CiaoPP and Verify*. October 2023. Invited talk at LOPSTR'23 (w/SPLASH'23).
2. M. V. Hermenegildo. *50-Years of Prolog and Beyond (invited talk)*. November 2022. Keynote given at the Prolog 50th Anniversary 'Prolog Day Symposium'.
3. M. V. Hermenegildo. *Some reflections on Prolog's evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP'22 at FLoC'22), August 2022.
4. 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.

5. 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.
6. 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).
7. M. V. Hermenegildo, F. Bueno, A. Casas, J. Navas, E. Mera, M. Carro, P. Lopez-Garcia. *Automatic Granularity-Aware Parallelization of Programs with Predicates, Functions, and Constraints*. DAMP'07, ACM SIGPLAN Workshop on Declarative Aspects of Multicore Programming, pages 1–1, ACM, January 2007. (abstract of invited talk).
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1. M. V. Hermenegildo. *50-Years of Prolog and Beyond (invited talk)*. November 2022. Keynote given at the Prolog 50th Anniversary ‘Prolog Day Symposium’.
2. M. V. Hermenegildo. *Some reflections on Prolog’s evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP’22 at FLoC’22), August 2022.
3. 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.
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3. 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.
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1. M. V. Hermenegildo. *50-Years of Prolog and Beyond (invited talk)*. November 2022. Keynote given at the Prolog 50th Anniversary ‘Prolog Day Symposium’.

2. M. V. Hermenegildo. *Some reflections on Prolog's evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP'22 at FLoC'22), August 2022.
3. 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.
4. 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.
5. 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.
6. 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).
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2. M.V. Hermenegildo, J.F. Morales, P. Lopez-Garcia, M. Carro. *Types, modes and so much more – the Prolog way*. Prolog - The Next 50 Years, LNCS, Num. 13900, pages 23–37, Springer, July 2023.
3. 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.
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2. M. A. Sanchez-Ordaz, I. Garcia-Contreras, V. Perez-Carrasco, J. F. Morales, P. Lopez-Garcia, M.V. Hermenegildo. *VeriFly: On-the-fly Assertion Checking with CiaoPP*. 6th Workshop on Formal Integrated Development Environment (F-IDE 2021, part of NASA NFM’21), Electronic Proceedings in Theoretical Computer Science (EPTCS), pages 1–5, Open Publishing Association (OPA), May 2021. Co-located with ETAPS 2021.
3. 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).
4. 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.
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6. Maximiliano Klemen. *A General Framework for Static Resource Analysis and Profiling of (Parallel) Programs and an Application to Runtime Checking*. Ph.D. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, March 2021.
7. Pérez Carrasco, Víctor. *Analysis of Smart Contracts using Horn Clauses*. Ms. Thesis, Universidad Politécnica de Madrid, ETSIInf, E-28660, Boadilla del Monte, Madrid, Spain, 76 pages, June 2020. BSc Thesis.
8. 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.
9. 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.
10. Susana Muñoz, José M. Gómez, Petra Hofstedt. *Proceedings of WLPE 2004*. 131 pages, INSA Rennes, September 2004.

Invited Papers and Tutorials:

1. M. V. Hermenegildo. *50-Years of Prolog and Beyond (invited talk)*. November 2022. Keynote given at the Prolog 50th Anniversary ‘Prolog Day Symposium’.

2. M. V. Hermenegildo. *Some reflections on Prolog's evolution, status, and future on the 50th anniversary of the birth of Prolog (abstract of invited talk)*. 38th International Conference on Logic Programming (ICLP'22 at FLoC'22), August 2022.
3. 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.
4. 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.
5. 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.
6. 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).
7. M. V. Hermenegildo, G. Puebla, F. Bueno, P. Lopez-Garcia. *Program Development Using Abstract Interpretation (and The Ciao System Preprocessor)*. 10th International Static Analysis Symposium (SAS'03), LNCS, Num. 2694, pages 127–152, Springer-Verlag, June 2003.

Articles in Books and Other Collections:

1. Gopal Gupta, Elmer Salazar, Joaquín Arias, Kinjal Basu, S Varanasi, M Carro. *Prolog: Past, Present, and Future*. Prolog - The Next 50 Years, LNCS, Num. 13900, Springer, July 2023.
2. M.V. Hermenegildo, J.F. Morales, P. Lopez-Garcia, M. Carro. *Types, modes and so much more – the Prolog way*. Prolog - The Next 50 Years, LNCS, Num. 13900, pages 23–37, Springer, July 2023.
3. J.F. Morales, S. Abreu, D. Ferreiro, M.V. Hermenegildo. *Teaching Prolog with Active Logic Documents*. Prolog - The Next 50 Years, LNCS, Num. 13900, pages 171–183, Springer, July 2023.
4. M.V. Hermenegildo, J.F. Morales, P. Lopez-Garcia. *Some Thoughts on How to Teach Prolog*. Prolog - The Next 50 Years, LNCS, Num. 13900, pages 107–123, Springer, July 2023.
5. 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.
6. K. Georgiou, U. Liqat. *Towards LLVM-Based Energy Consumption Analysis of Programs*. ICT-Energy (Nanoenergy) Letters, Num. 8, pages 16–17, July 2014.
7. M. V. Hermenegildo, F. Bueno, M. Carro, P. Lopez-Garcia, J.F. Morales, G. Puebla. *An Overview of The Ciao Multiparadigm Language and Program Development Environment and its Design Philosophy*. Festschrift for Ugo Montanari, LNCS, Vol. 5065, pages 209–237, Springer-Verlag, June 2008.

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1. M. Klemen, M.Á. Carreira-Perpiñán, P. Lopez-Garcia. *Solving Recurrence Relations using Machine Learning, with Application to Cost Analysis*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 155–168, Open Publishing Association (OPA), July 2023.
2. D. Jurjo, J. F. Morales, P. Lopez-Garcia, M.V. Hermenegildo. *Towards a rule-based approach for deriving abstract domains*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 55–58, Open Publishing Association (OPA), July 2023. (Extended Abstract).
3. D. Ferreiro, J.F. Morales, S. Abreu, M.V. Hermenegildo. *Demonstrating (Hybrid) Active Logic Documents and the Ciao Prolog Playground, and an Application to Verification Tutorials*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 324–330, Open Publishing Association (OPA), July 2023. See also associated poster at <https://cliplab.org/papers/hald-poster-iclp.pdf>.
4. G. Garcia-Pradales, J.F. Morales, M. V. Hermenegildo, J. Arias, M. Carro. *An s(CASP) In-Browser Playground based on Ciao Prolog*. ICLP'22 Workshop on Goal-directed Execution of Answer Set Programs, August 2022.
5. M. A. Sanchez-Ordaz, I. Garcia-Contreras, V. Perez-Carrasco, J. F. Morales, P. Lopez-Garcia, M.V. Hermenegildo. *VeriFly: On-the-fly Assertion Checking with CiaoPP*. 6th Workshop on Formal Integrated Development Environment (F-IDE 2021, part of NASA NFM'21), Electronic Proceedings in Theoretical Computer Science (EPTCS), pages 1–5, Open Publishing Association (OPA), May 2021. Co-located with ETAPS 2021.
6. 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).
7. 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.
8. 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.
9. 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).
10. 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.
11. 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.

12. 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).
13. 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).
14. 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.
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16. 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.
17. 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.
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19. 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.
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24. 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.

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1. J.F. Morales, S. Abreu, D. Ferreiro, M.V. Hermenegildo. *Teaching Prolog with Active Logic Documents*. Technical University of Madrid (UPM) and IMDEA Software Institute, December 2022.
2. M.A. Sanchez-Ordaz, I. Garcia-Contreras, V. Perez-Carrasco, J. F. Morales, P. Lopez-Garcia, M. V. Hermenegildo. *VeriFly: On-the-fly Assertion Checking via Incrementality*. Num. CLIP-1/2021.0, 21 pages, The CLIP Lab, IMDEA Software Institute and T.U. Madrid, May 2021.
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11. E. Mera. *Development of a Prolog Profiler*. Num. CLIP13/2004.1, Technical University of Madrid, September 2004.
12. F. Bueno, D. Cabeza, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, G. Puebla (Eds.). *The Ciao System. Reference Manual (V1.10)*. School of Computer Science, Technical University of Madrid (UPM), June 2004. System and on-line version of the manual available at <http://ciao-lang.org>.
13. J. M. Gomez, M. Carro, J. F. Morales. *The External Interface*. Num. CLIP6/2004.0, 4 pages, School of Computer Science, Technical University of Madrid, May 2004. Deliverable D12 of the AMOS Project.
14. J. F. Morales, E. Mera, M. Carro, J. Correas. *The Interface Internals*. Num. CLIP7/2004.0, 30 pages, School of Computer Science, Technical University of Madrid, May 2004. Deliverable D14 of the AMOS Project.

15. J. Correas, E. Mera, J. F. Morales. *Final Matching Engine*. Num. CLIP8/2004.0, 2 pages, School of Computer Science, Technical University of Madrid, May 2004. Deliverable D15 of the AMOS Project.
16. M. Carro, J. M. Gomez, J. Correas, J. F. Morales, E. Mera, G. Puebla, D. Cabeza, F. Bueno, C. Daffara, M. V. Hermenegildo. *Web site*. Num. CLIP9/2004.0, 2 pages, School of Computer Science, Technical University of Madrid, May 2004. Deliverable D17 of the AMOS Project.
17. M. Carro, J. Correas, C. Daffara, G. Puebla, M. V. Hermenegildo. *Information Spreading*. Num. CLIP10/2004.0, 273 pages, School of Computer Science, Technical University of Madrid, May 2004. Deliverable D18 of the AMOS Project.
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21. M. Carro. *The AMOS Project: The Matching Engine Design*. Num. CLIP2/2003.1, Technical University of Madrid, February 2003.
22. 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.
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17 Publications in Component-Based Software Development

Articles in Refereed Conferences:

1. G. Marpons, J. Mariño, M. Carro, A. Herranz, J.J. Moreno-Navarro, L.Å. Fredlund. *Automatic Coding Rule Conformance Checking Using Logic Programming*. 10th International Symposium on Practical Aspects of Declarative Languages (PADL'08), LNCS, Vol. 4902, pages 18–34, Springer Verlag, January 2008.

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1. G. Marpons, J. Mariño, M. Carro, A. Herranz, J.J. Moreno-Navarro, L.Å. Fredlund. *Automatic Coding Rule Conformance Checking Using Logic Programming*. Num. CLIP6/2007.0, Technical University of Madrid (UPM), August 2007.

18 Publications in Open Source Software

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1. 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.

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1. J. M. Gomez, M. Carro, J. F. Morales. *The External Interface*. Num. CLIP6/2004.0, 4 pages, School of Computer Science, Technical University of Madrid, May 2004. Deliverable D12 of the AMOS Project.
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9. M. Carro. *The AMOS Project: The Matching Engine Design*. Num. CLIP2/2003.1, Technical University of Madrid, February 2003.
10. 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.
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19 Publications in Simulation of Parallel Systems

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1. K. Shen, M. Hermenegildo. *High-level Characteristics of Or- and Independent And-parallelism in Prolog*. Int'l. Journal of Parallel Programming, Vol. 24, Num. 5, pages 433–478, Plenum Press, 1996.

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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. M. Fernández, M. Carro, M. Hermenegildo. *IDRA (Ideal Resource Allocation): Computing Ideal Speedups in Parallel Logic Programming*. Proceedings of EuroPar'96, LNCS, Num. 1124, pages 724–734, Springer-Verlag, August 1996.
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3. K. Shen, M. Hermenegildo. *A Simulation Study of Or- and Independent And-parallelism*. Num. FIM-60.1/AI/90, Facultad de Informatica, U. P. Madrid, 28660 Boadilla del Monte, Madrid, Spain, October 1990.
4. C. Carreras, M. Hermenegildo. *Towards an Analytical Model of the Data Diffusion Machine*. UPM (PEPMA ESPRIT Project technical report), 1990.

20 Publications in Teaching

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1. David S. Warren, Veronica Dahl, Thomas Eiter, Manuel Hermenegildo, Robert Kowalski, Francesca Rossi. *Prolog - The Next 50 Years*. LNCS, Num. 13900, Springer, July 2023.

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1. J.F. Morales, S. Abreu, D. Ferreiro, M.V. Hermenegildo. *Teaching Prolog with Active Logic Documents*. Prolog - The Next 50 Years, LNCS, Num. 13900, pages 171–183, Springer, July 2023.
2. M.V. Hermenegildo, J.F. Morales, P. Lopez-Garcia. *Some Thoughts on How to Teach Prolog*. Prolog - The Next 50 Years, LNCS, Num. 13900, pages 107–123, Springer, July 2023.

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1. D. Ferreiro, J.F. Morales, S. Abreu, M.V. Hermenegildo. *Demonstrating (Hybrid) Active Logic Documents and the Ciao Prolog Playground, and an Application to Verification Tutorials*. Technical Communications of the 39th International Conference on Logic Programming (ICLP 2023), Electronic Proceedings in Theoretical Computer Science (EPTCS), Vol. 385, pages 324–330, Open Publishing Association (OPA), July 2023. See also associated poster at <https://cliplab.org/papers/hald-poster-iclp.pdf>.

Technical Reports and Manuals:

1. J.F. Morales, S. Abreu, D. Ferreiro, M.V. Hermenegildo. *Teaching Prolog with Active Logic Documents*. Technical University of Madrid (UPM) and IMDEA Software Institute, December 2022.

21 Publications in Quality of Service

Articles in Refereed Journals:

1. 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. 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.
2. 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.

Articles in Books and Other Collections:

1. A. Metzger, S. Benbernou, M. Carro, M. Driss, G. Kecskemeti, R. Kazhamiakin, K. Krytikos, A. Mocci, 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. 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.

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, 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.

3. 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.
4. 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.
5. 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.

22 Publications in Services

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. 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. 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. 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.
4. 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.
5. 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.
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. 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.
8. 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.
9. 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.
10. 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.

Invited Papers and Tutorials:

1. 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).

Articles in Books and Other Collections:

1. 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. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.

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. 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.

4. 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.
5. D. Ivanović, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, E. Mera. *Towards Data-Aware Cost-Driven Adaptation for Service Orchestrations*. Num. CLIP5/2009.0, Technical University of Madrid (UPM), November 2009. Replaced by a later version.
6. 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.

23 Publications in Service Aggregation and Composition

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. 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.
4. 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.
5. 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.
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.
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8. 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.
9. 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.
10. 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.

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1. 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.
2. 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.
3. 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.
4. 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.

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.
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3. 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.
4. 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.
5. D. Ivanović, M. Carro, M. V. Hermenegildo, P. Lopez-Garcia, E. Mera. *Towards Data-Aware Cost-Driven Adaptation for Service Orchestrations*. Num. CLIP5/2009.0, Technical University of Madrid (UPM), November 2009. Replaced by a later version.
6. 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.

24 Publications in Graphical Communication

Articles in Refereed Journals:

1. Nicolas Fay, Simon Garrod, Leo Roberts, Nik Swoboda. *The Interactive Evolution of Human Communication Systems*. *Cognitive Science*, Vol. 34, pages 351–386, 2010.
2. 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.
3. Patrick G.T. Healey, Nik Swoboda, Ichiro Umata, James King. *Graphical Language Games: Interactional constraints on representational form*. *Cognitive Science*, Vol. 31, pages 285–309, 2007.

Articles in Refereed Conferences:

1. 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.
2. Patrick G.T. Healey, Nik Swoboda. *A Perspective on Language Evolution from Studies of Graphical Languages*. Proceedings of Evolution of Language: Fifth International Conference, pages 52–52, March 2004.
3. Patrick G. T. Healey, Nik Swoboda, James King. *Co-ordinating Conventions in Graphical Dialogue: Effects of Repetition and Interaction*. Diagrammatic Representation and Inference, Lecture Notes in Artificial Intelligence, Num. 2980, pages 286–300, Springer-Verlag, 2004.
4. Nicolas Fay, Nik Swoboda, Takugo Fukaya, Ichiro Umata, Yasuhiro Katagiri. *Using Graphics to Communicate Across Cultures*. Diagrammatic Representation and Inference, Lecture Notes in Artificial Intelligence, Num. 2980, pages 347–350, Springer-Verlag, 2004.
5. Patrick G.T. Healey, James King, Nik Swoboda, Ichiro Umata. *Graphical Language Games: Interaction and Abstraction*. Proceedings of IGC2003: Second International Workshop on Interactive Graphical Communication, Working papers in Computer Science, Num. WP-03-01, pages 35–48, 2003.

Publications in Refereed Workshops:

1. Nik Swoboda, Patrick G.T. Healey, Gonzalo Berrocal Noguerales. *A prototype body orientation based drawing system*. First International Workshop on Pen-Based Learning Technologies (PLT 2007), pages 16–19, IEEE Computer Society, May 2007.

25 Publications in Diagrammatic Reasoning

Articles in Refereed Journals:

1. 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.
2. Nik Swoboda, Gerard Allwein. *Heterogeneous Reasoning with Euler/Venn Diagrams Containing Named Constants and FOL*. Electronic Notes in Theoretical Computer Science, Vol. 134, pages 153–187, June 2005. Available online <http://www.sciencedirect.com/science/journal/15710661>.
3. Nik Swoboda, Gerard Allwein. *Using DAG Transformations to Verify Euler/Venn Homogeneous and Euler/Venn FOL Heterogeneous Rules of Inference*. Journal on Software & System Modeling, Vol. 3, Num. 2, pages 136–149, May 2004. The original publication is available at springerlink.com (DOI) 10.1007/s10270-003-0044-8.

Articles in Refereed Conferences:

1. 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.
2. 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.
3. Dave Barker-Plummer, John Etchemendy, Albert Liu, Michael Murray, Nik Swoboda. *Open-proof - A Flexible Framework for Heterogeneous Reasoning*. Diagrammatic Representation and Inference, Lecture Notes in Artificial Intelligence, Vol. 5223, pages 347–349, Springer, 2008.

Books and Monographs:

1. Dave Barker-Plummer, Richard Cox, Nik Swoboda. *Diagrammatic Representation and Inference*. Lecture Notes in Artificial Intelligence, Num. 4045, 300 pages, Springer, June 2006.

Publications in Refereed Workshops:

1. Dave Barker-Plummer, Nik Swoboda. *A Sequent Based Logic for Coincidence Grid*. CEUR Workshop Proceedings, Vol. 274, pages 1–12, September 2007. Available online <http://ftp.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-274/>.

26 Publications in Research Policy

Invited Papers and Tutorials:

1. 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.
2. 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-tp1pmove-slides.pdf>.

27 Publications in Other Topics and General Publications

Articles in Refereed Journals:

1. M. Carro, Ángel Herranz, Julio Mariño. *A Model-Driven Approach to Teaching Concurrency*. ACM Transactions on Computer Education, Vol. 13, Num. 1, 2013.
2. Stacy E. Finkelstein, Peter Freyd, James Lipton. *A New Framework for Declarative Programming*. Theoretical Computer Science, Vol. 300, Num. 1–3, pages 91–160, Elsevier Science, May 2003.

Articles in Refereed Conferences:

1. 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.
2. Ruben Vazquez, Nik Swoboda. *Combining the Semantic Web with the Web as Background Knowledge for Ontology Mapping*. OTM Conferences (1), Lecture Notes in Computer Science, Vol. 4803, pages 814–831, Springer, November 2007.
3. M. Carro, J. Mariño, A. Herranz, J.J. Moreno-Navarro. *Teaching How to Derive Correct Concurrent Programs from State-Based Specifications*. Symposium on Teaching Formal Methods 2004, Lecture Notes in Computer Science, Num. 3294, pages 85–106, Springer Verlag, Formal Methods Europe, November 2004.
4. 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.
5. 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.
6. G. Puebla, M. Comini, W. Drabent, M. Ducass, M. Fabris, M. Meier, Ch. Schulte. *Tools and Environments for Constraint Logic Programming*. International Logic Programming Symposium, pages 417–418, October 1997. Workshop abstract.

Books and Monographs:

1. B. Accattoli, M. V. Hermenegildo (Eds.). *Proceedings of the 24th International Symposium on Principles and Practice of Declarative Programming (PPDP 2022)*. ACM ICPS Proceedings, 187 pages, ACM, September 2022.
2. 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.
3. 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.
4. Manuel Carro, Andy King (Eds.). *32nd International Conference on Logic Programming*. Vol. 16, Num. 5-6, Cambridge University Press, September 2016.

5. A. Zaks, M. V. Hermenegildo. *Proceedings of the 25th International Conference on Compiler Construction (CC 2016)*. ACM, March 2016.
6. M. Carro, D. Karastoyanova, G. A. Lewis, A. Liu. *Third International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2011)*. ACM, May 2011.
7. M. Carro, J.H. Reppy. *ACM SIGPLAN Proceedings of the Workshop on Declarative Aspects of Multicore Programming*. ACM, January 2011.
8. 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.
9. 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.
10. M. V. Hermenegildo, J. Palsberg. *Proceedings of the 37th ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL 2010)*. ACM, January 2010.
11. M. Carro, R. Peña-Marí. *Practical Aspects of Declarative Languages – 12th. International Symposium, PADL 2010*. LNCS, Vol. 5937, Springer-Verlag, January 2010.
12. G. Barthe, M. V. Hermenegildo. *Verification, Model Checking, and Abstract Interpretation, 11th International Conference, VMCAI 2010*. LNCS, Vol. 5944, Springer, January 2010.
13. G. Puebla, G. Vidal. *ACM SIGPLAN Partial Evaluation and Program Manipulation (PEPM'09)*. 200 pages, ACM Digital Library, January 2009.
14. J. Garrigue, M. V. Hermenegildo. *Functional and Logic Programming, 9th International Symposium, FLOPS'08*. LNCS, Num. 4989, Springer, April 2008.
15. M. V. Hermenegildo. *ACM SIGPLAN-Intel Workshop on Declarative Aspects of Multicore Programming, DAMP'08, Informal Proceedings*. January 2008.
16. G. Puebla. *Logic Based Program Synthesis and Transformation (LOPSTR'06)*. LNCS, Num. 4407, 237 pages, Springer, March 2007.
17. M. Hermenegildo, D. Cabeza. *Practical Aspects of Declarative Languages – 7th. International Symposium, PADL 2005*. LNCS, Num. 3350, 278 pages, Springer-Verlag, January 2005.
18. M. Leuschel, F. Bueno. *Preproceedings of the International Workshop on Logic Based Program Development and Transformation*. 304 pages, Facultad de Informatica, September 2002.
19. 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.
20. G. Puebla, M. Comini, W. Drabent, M. Ducasse, M. Fabris, M. Meier, Ch. Schulte. *Proceedings of the ILPS'97 Workshop on Tools and Environments for Constraint Logic Programming*. Num. CLIP7/97.1, 180 pages, Facultad de Informática, UPM, Technical University of Madrid (UPM), October 1997.
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2. 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.
3. 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.

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