

Héctor L. Palacios Verdes

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Web page:	www.hectorpalacios.net	Residence:	Spain

Education

- Ph. D.** Information and Communication Technologies December 2009
Universitat Pompeu Fabra. Barcelona, Spain.
Dissertation: *Translation-based approaches to Conformant Planning*.
Advisor: *Hector Geffner*
- M. Sc.** Computer Science. May 2003
Universidad Simón Bolívar. Caracas, Venezuela.
Thesis: *Planning as Branch and Bound: a Constraint Programming implementation*.
Advisor: *Hector Geffner*
- B.S.** Computing Engineering. May 1997
Universidad Simón Bolívar. Caracas, Venezuela

Publications

Journal Article

1. S Jimenez, A Jonsson, H Palacios. Temporal Planning with a Classical Planner. *Submitted in Jan 2016*.
2. Reports of the AAAI 2012 Conference Workshops . V. Agrawal, J. Baier, K. Bekris, Y. Chen, A.S. d'Avila Garcez, P. Hitzler, P. Haslum, D. Jannach, E. Law, F. Lecue, L.C. Lamb, C. Matuszek, H. Palacios, B. Srivastava, L. Shastri, N. Sturtevant, R. Stern, S. Tellex, S. Vassos. *AI Magazine*. 33(4): 119-126 (2012). ISSN 0738-4602.
3. H. Palacios and H. Geffner. [Compiling Uncertainty Away in Conformant Planning Problems with Bounded Width](#). *Journal of Artificial Intelligence Research (JAIR)*. 35: 623-765. 2009. ISSN 1076-9757.

Refereed Conference Articles

4. K.Fernandes, J.S. Cardoso, H. Palacios. Learning and Ensembling Lexicographic Preference Trees with Multiple Kernels. 2016 International Joint Conference on Neural Networks (IJCNN 2016).
5. S Jimenez, A Jonsson, H Palacios. Temporal Planning With Required Concurrency Using Classical Planning. 25th International Conference on Automated Planning and Scheduling (ICAPS). Jerusalem, Israel. June 7-11, 2015.
6. C. Boutilier, J. Lang, J. Oren, H. Palacios. [Robust Winners and Winner Determination Policies under Candidate Uncertainty](#). Twenty-Eighth AAAI Conference on Artificial Intelligence (AAAI). July 27-31, 2014. Québec, Canada.
7. A. Albore, H. Palacios and H. Geffner. [Compiling Uncertainty Away in Non-Deterministic](#)

- Conformant Planning. European Conference on Artificial Intelligence (ECAI), p. 465-470. ISBN 978-1-60750-605-8. Lisbon, Portugal, August 16-20, 2010.
8. J. Hoffmann, N. Fates, H. Palacios. Brothers in Arms? On AI Planning and Cellular Automata. European Conference on Artificial Intelligence (ECAI). p. 223-228. ISBN 978-1-60750-605-8. Lisbon, Portugal. August 16-20, 2010.
 9. B. Bonet, H. Palacios and H. Geffner. Automatic Derivation of Finite-State Machines for Behavior Control (Nectar Track). 24th AAAI conference on Artificial Intelligence (AAAI), p. 1656-1659. ISBN 978-1-57735-463-5. Atlanta, Georgia, USA, July 11-15, 2010
 10. B. Bonet, H. Palacios and H. Geffner. Automatic Derivation of Memoryless Policies and Finite-State Controllers Using Classical Planners. 19th International Conference on Automated Planning and Scheduling (ICAPS), p. 34-41. ISBN 978-1-57735-406-2. Thessaloniki, Greece, September 19-23, 2009.
 11. A. Albore, H. Palacios and H. Geffner. A Translation-based Approach to Contingent Planning. Int. Joint Conf. on Artificial Intelligence (IJCAI), p. 1623-1628. ISBN 978-1-57735-426-0. Pasadena, California, USA, July 11-17, 2009.
 12. A. Albore, H. Palacios and H. Geffner. Fast and Informed Action Selection for Planning with Sensing. In Current Topics in Artificial Intelligence, vol 4788/2007. Selected papers of the 12th Conference of the Spanish Association for Artificial Intelligence (CAEPIA), p. 1-10. ISBN: 978-3-540-75270-7. Salamanca, España. November 12-13, 2007.
 13. H. Palacios and H. Geffner. From Conformant into Classical Planning: Efficient Translations That May be Complete Too. In Proceedings of the 17th International Conference on Automated Planning and Scheduling (ICAPS), p. 264-271. ISBN 978-1-57735-344-7. Providence, Rhode Island, USA, September 22-26, 2007.
 14. H. Palacios and H. Geffner. Compiling Uncertainty Away: Solving Conformant Planning Problems Using a Classical Planner (Sometimes). In Proceedings of the 21st National Conference on Artificial Intelligence (AAAI), p. 900-905. ISBN 978-1-57735-281-5. , Boston, Massachusetts, USA, July 16-20, 2006.
 15. H. Palacios and H. Geffner. Mapping Conformant Planning into SAT through Compilation and Projection. In Lecture Notes in Computer Sciences, vol 4177/2006. Selected papers of the 11th Conference of the Spanish Association for Artificial Intelligence (CAEPIA), 2005. p. 311-320. ISBN 3-540-45914-6. Santiago de Compostela, España, November 16-18, 2005.
 16. H. Palacios, B. Bonet, A. Darwiche, H. Geffner. Pruning Conformant Plans by Counting Models on Compiled d-DNNF Representations. In Proceedings of the 15th International Conference on Automated Planning and Scheduling (ICAPS), 2005. p 141-150. ISBN 978-1-57735-220-4. Monterey, California, USA. June 5-10 2005.
 17. H. Palacios and H. Geffner. Planning as Branch and Bound: A Constraint Programming Implementation. In Proceedings of the 28th Latin-American Conference on Informatics (infoUYclei), 2002. p. 239-251. ISBN 9974-7704-1-6. Montevideo, Uruguay, November 25-29 2002.

Refereed Workshops Articles and other refereed publications

18. H. Palacios, A. Albore, H. Geffner. Compiling Contingent Planning into Classical Planning: New Translations and Results. Models and Paradigms for Planning under Uncertainty: a Broad Perspective, ICAPS 2014.
19. C. Boutilier, J. Lang, J. Oren, H. Palacios. Robust Winners and Winner Determination Policies under Candidate Uncertainty. Fourth International Workshop on Computational Social Choice, 2012.
20. H. Palacios and H. Geffner. From Conformant into Classical Planning: Efficient Translations

That May be Complete Too. Doctoral Consortium of the 17th International Conference on Automated Planning and Scheduling (ICAPS), 2007.

21. H. Palacios and H. Geffner. [Compiling Uncertainty Away: Solving Conformant Planning Problems Using a Classical Planner \(Sometimes\)](#). In Proceedings of the Workshop on Planning Under Uncertainty and Execution Control for Autonomous Systems, ICAPS 2006.
22. H. Palacios and H. Geffner. [Mapping Conformant Planning into SAT through Compilation and Projection](#). In Proceedings of the 1st International Workshop on Quantification in Constraint Programming held during the International Conference on Principles and Practice of Constraint Programming (CP), 2005.

Non-refereed and slightly-refereed publications.

23. H. Palacios. [cf2sat and cf2cs+cf2sat: Two Conformant Planners](#). In The Fifth International Planning Competition Booklet (IPC-5), ICAPS 2006.
24. H. Palacios and H. Geffner. [Easy and hard conformant planning](#). Doctoral Consortium of the 16th International Conference on Automated Planning and Scheduling (ICAPS), 2006.
25. H. Palacios and H. Geffner. [Easy and hard conformant planning](#). Doctoral Consortium of the 10th International Conference on Principles of Knowledge Representation and Reasoning (KR), 2006.

Patents

26. M. B. Do, H. Palacios, R. Zhou, L. Kuhn, J. de Kleer. [Methods and Systems for Active Diagnosis through Logic-based Planning](#). Patent US8145334. Issue date: 27 Mar 2012.

Editor

27. Papers from the 2012 AAAI Workshop "Problem Solving Using Classical Planners". H. Palacios, P. Haslum, J. Baier. 98 pp. 2012. ISBN 978-1-57735-577-9.
28. Proceedings of the ICAPS'10 workshop on Planning and Scheduling Under Uncertainty (13 May 2010), Bidot J., Bryce D., Buffet O., Palacios H., Sanner S. (Editors). 2010.

Talks

- Autonomous Systems and Robotics seminar. October 2007. NASA Ames Research Center, Mountain View, CA.
- Tutorial at ICAPS 2011. "Translation-based approaches to conformant and contingent planning". Héctor Palacios and Alexandre Albore.

Awards and Honors

- **IJCAI-JAIR Best Paper Prize 2012** to the paper [Compiling Uncertainty Away in Conformant Planning Problems with Bounded Width](#), by H. Palacios and H. Geffner. Award by the Journal of Artificial Intelligence Research (JAIR) Advisory Board.
- **Honourable Mention at the 2009 Artificial Intelligence Dissertation Award** by ECCAI, the European Coordinating Committee for Artificial Intelligence.
- **2010 ICAPS Best Dissertation Award** by the International Conference on Automated Planning and Scheduling.
- **Best Student Paper Award** at the 17th International Conference on Automated Planning and Scheduling (ICAPS), 2007.
- **Winner** of the Conformant track of the Fifth Int. Planning Competition (IPC-5), 2006.

- **Best Paper Finalist** at the 11th Conference of the Spanish Association for Artificial Intelligence (CAEPIA), 2005.

Research Experience and Interest.

Artificial Intelligence: Automated Planning in its various forms: Deterministic, Conformant, Contingent, and Probabilistic. Problem Solving by translations into Classical Planning. Logic representation for problem solving: SAT modeling and Knowledge Compilation (d-DNNF, OBDD). Computational Social Choice. Heuristic search.

Work Experience

Visiting Professor January 2013 – December 2015.
 Dept. of Information and Communications Technologies.
 Universitat Pompeu Fabra. Barcelona, Spain.
 Artificial Intelligence Group
Teaching: Artificial Intelligence, Discrete Math, Computational Logic.

Postdoc December 2010 – December 2012.
 Dept. Informatics. Universidad Carlos III of Madrid. Madrid, Spain.
 Planning and Learning Group
Teaching: Artificial Intelligence

Assistant Professor September 2008 – September 2010
 Dept. of Computer Science. Universidad Simón Bolívar. Caracas, Venezuela.
Teaching: Logic, Discrete Math, Artificial Intelligence

Research Intern July 2007 – September 2007
 Palo Alto Research Center ([PARC](#)), California, USA.
 Embedded Reasoning Area. Under supervision of [Minh B. Do](#).

Assistant Professor September 2001 – August 2003
 Dept. of Computer Science. Universidad Simón Bolívar. Caracas, Venezuela.
Teaching: Functional, Logic and Object Oriented Programming. Artificial Intelligence.

Teaching Assistant January 1998 – August 2001
 Dept. of Computer Science. Universidad Simón Bolívar. Caracas, Venezuela.

Professional Service

- Co-organizer of the AAI-12 Workshop on Problem Solving using Classical Planners.
- Co-organizer of the ICAPS-10 Workshop on Planning and Scheduling Under Uncertainty.

Reviewer of Journals:

- Artificial Intelligence Journal (AIJ)
- Journal of Artificial Intelligence Research (JAIR)
- Knowledge-Based Systems Journal
- Information Sciences Journal

- ACM Transactions on Intelligent Systems and Technology (TIST)

Reviewer of Conferences:

- The International Joint Conference on Artificial Intelligence (IJCAI) at 2007, 2009, 2011, 2013, 2015, 2016.
- The Conference of the Association for the Advancement of Artificial Intelligence (AAAI) at 2008, 2010, 2011, 2012, 2013, 2014, 2015.
- The International Conference on Automated Planning and Scheduling (ICAPS) at 2010, 2011, 2012, 2013, 2014.
- The European Conference on Artificial Intelligence (ECAI) at 2008, 2010, 2012, 2014, 2016.
- The Conference on Uncertainty in Artificial Intelligence (UAI) at 2011, 2014, 2016.
- The Annual Symposium on Combinatorial Search (SOCS) at 2012, 2013, 2014, 2015, 2016.
- The Iberoamerican Conference on Artificial Intelligence (IBERAMIA) at 2008, 2012.
- The Conference of the Spanish Association for Artificial Intelligence (CAEPIA) at 2005.

Language skills.

Spanish – Mother tongue

English oral and written – Business and Informal level

Catalan oral and written – Business comprehension level