

# Héctor L. Palacios Verdes

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## Education

- Ph. D.** Informatics and Digital Communication 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. H. Palacios and H. Geffner. [Compiling Uncertainty Away in Conformant Planning Problems with Bounded Width](#). Journal of Artificial Intelligence Research (JAIR). 2009

### Refereed Conference Articles

2. A. Albore, H. Palacios and H. Geffner. [Compiling Uncertainty Away in Non-Deterministic Conformant Planning](#). European Conference on Artificial Intelligence (ECAI), 2010.
3. J. Hoffmann, N. Fates, H. Palacios. [Brothers in Arms? On AI Planning and Cellular Automata](#). European Conference on Artificial Intelligence (ECAI), 2010.
4. B. Bonet, H. Palacios and H. Geffner. Automatic Derivation of Finite-State Machines for Behavior Control (Nectar Track). 24<sup>th</sup> AAAI conference on Artificial Intelligence (AAAI), 2010.
5. B. Bonet, H. Palacios and H. Geffner. [Automatic Derivation of Memoryless Policies and Finite-State Controllers Using Classical Planners](#). 19<sup>th</sup> International Conference on Automated Planning and Scheduling (ICAPS), 2009.
6. A. Albore, H. Palacios and H. Geffner. [A Translation-based Approach to Contingent Planning](#). Int. Joint Conf. on Artificial Intelligence (IJCAI), 2009.
7. 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 12<sup>th</sup> Conference of the Spanish Association for Artificial Intelligence (CAEPIA), 2007. p. 1-10

8. H. Palacios and H. Geffner. [From Conformant into Classical Planning: Efficient Translations That May be Complete Too](#). In Proceedings of the 17<sup>th</sup> International Conference on Automated Planning and Scheduling (ICAPS), 2007. p. 264-271
9. H. Palacios and H. Geffner. [Compiling Uncertainty Away: Solving Conformant Planning Problems Using a Classical Planner \(Sometimes\)](#). In Proceedings of the 21<sup>st</sup> National Conference on Artificial Intelligence (AAAI), 2006. p. 900-905
10. 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 11<sup>th</sup> Conference of the Spanish Association for Artificial Intelligence (CAEPIA), 2005. p. 311-320
11. H. Palacios, B. Bonet, A. Darwiche, H. Geffner. [Pruning Conformant Plans by Counting Models on Compiled d-DNNF Representations](#). In Proceedings of the 15<sup>th</sup> International Conference on Automated Planning and Scheduling (ICAPS), 2005. p 141-150
12. H. Palacios and H. Geffner. [Planning as Branch and Bound: A Constraint Programming Implementation](#). In Proceedings of the 28<sup>th</sup> Latin-American Conference on Informatics (CLEI), 2002. p. 239-251

### Refereed Workshops Articles and other refereed publications

13. H. Palacios and H. Geffner. [From Conformant into Classical Planning: Efficient Translations That May be Complete Too](#). Doctoral Consortium of the 17<sup>th</sup> International Conference on Automated Planning and Scheduling (ICAPS), 2007.
14. 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.
15. H. Palacios and H. Geffner. [Easy and hard conformant planning](#). Doctoral Consortium of the 16<sup>th</sup> International Conference on Automated Planning and Scheduling (ICAPS), 2006.
16. H. Palacios and H. Geffner. [Easy and hard conformant planning](#). Doctoral Consortium of the 10<sup>th</sup> International Conference on Principles of Knowledge Representation and Reasoning (KR), 2006.
17. H. Palacios and H. Geffner. [Mapping Conformant Planning into SAT through Compilation and Projection](#). In Proceedings of the 1<sup>st</sup> International Workshop on Quantification in Constraint Programming held during the International Conference on Principles and Practice of Constraint Programming (CP), 2005.

### Non-refereed publications

18. H. Palacios. [cf2sat and cf2cs+cf2sat: Two Conformant Planners](#). In The Fifth International Planning Competition Booklet (IPC-5), ICAPS 2006.

### Patents

19. M. B. Do, H. Palacios, R. Zhou, L. Kuhn, J. de Kleer. [Methods and Systems for Active Diagnosis through Logic-based Planning](#). Application number: 12/364,006. Publication number: US 2010/0010657 A1. Filing date: 2 Feb 2009. *Not issued yet*.

### Talks

- Autonomous Systems and Robotics seminar. October 2007. NASA Ames Research Center, Mountain View, CA.
- Planning and Learning group. Universidad Carlos III de Madrid. November 2009. Madrid, Spain.

## Awards and Honors

- **Honorable 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 17<sup>th</sup> International Conference on Automated Planning and Scheduling (ICAPS), 2007.
- **Winner** of the Conformant track of the Fifth International Planning Competition (IPC-5), 2006.
- **Best Paper Finalist** at the 11th Conference of the Spanish Association for Artificial Intelligence (CAEPIA), 2005.

## Research Experience

**Artificial Intelligence:** Automated Planning in its various forms: Deterministic, Conformant, Contingent, and Probabilistic. Heuristic search. Applications of Constraint Programming to Planning and problem solving. Logic representation for problem solving: SAT modeling and Knowledge Compilation (d-DNNE, OBDD).

## Professional Service

Reviewer of:

- The International Joint Conference on Artificial Intelligence (IJCAI) at 2007, 2009, 2011.
- The Conference of the Association for the Advancement of Artificial Intelligence (AAAI) at 2008, 2010.
- The European Conference on Artificial Intelligence (ECAI) at 2008, 2010.
- The International Conference on Automated Planning and Scheduling (ICAPS) at 2010, 2011.
- The Iberoamerican Conference on Artificial Intelligence (IBERAMIA) at 2008.
- The Conference of the Spanish Association for Artificial Intelligence (CAEPIA) at 2005.

## Work Experience

**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 ([www.parc.com](http://www.parc.com)).  
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. Introduction to Artificial Intelligence.  
Advisor of an undergraduate final project: “*CP++: a Constraint Programming library in C++*”.

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