

Curriculum Vitae

Malte Helmert

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Personal details

Omitted in the public version of the CV. Please enquire if you need more information.

Current occupation

Main affiliation

Position: assistant professor (tenure track)
at Universität Basel, Switzerland
Office address: Departement Mathematik und Informatik
Bernoullistrasse 16
4056 Basel, Switzerland
Phone: +41 61 267 0548
Fax: +41 61 267 0559
Email: malte.helmert@unibas.ch
Website: http://www.cs.unibas.ch/personen/helmert_m.html

Additional affiliation

Position: *Adjunct Senior Research Fellow*
at Institute for Integrated and Intelligent Systems,
Griffith University, Queensland, Australia

Employment

since 06/2011 assistant professor (tenure track)
at Universität Basel, Switzerland
12/2006–05/2011 post-doctoral researcher (*Akademischer Rat auf Zeit*)
at Albert-Ludwigs-Universität Freiburg, Germany
04/2004–11/2006 research assistant and teaching assistant
at Albert-Ludwigs-Universität Freiburg, Germany

Education

- 06/2006 PhD degree, *summa cum laude*
04/2001–03/2004 PhD student (computer science)
at Albert-Ludwigs-Universität Freiburg, Germany
03/2001 Diplom (university degree), grade 1.0 (top) *with distinction*
10/1997–03/2001 studies of computer science
at Albert-Ludwigs-Universität Freiburg, Germany
and University of Durham, United Kingdom

Scholarships

- (2011–2014) Marie Curie International Outgoing Fellowship
for project *Abstraction Heuristics for Planning and Combinatorial Search (AHPACS)*
funded by the European Commission (granted 12/2009)
cancelled because of appointment to Universität Basel
04/2003–03/2004 scholar of graduate programme *Mathematical Logic and Applications*
at Albert-Ludwigs-Universität Freiburg, Germany
funded by the German Research Foundation (*DFG-Graduiertenkolleg*)
04/2001–03/2003 scholar of graduate programme *Human and Machine Intelligence*
at Albert-Ludwigs-Universität Freiburg, Germany
funded by the German Research Foundation (*DFG-Graduiertenkolleg*)
09/1999–03/2001 scholar of German National Merit Foundation
(*Studienstiftung des Deutschen Volkes*)

Awards

- 07/2011 *IJCAI-11 Computers and Thought Award*
“for fundamental contributions to the theory and practice
in automated planning and combinatorial search”
presented at IJCAI 2011 in Barcelona, Spain
06/2011 *Winner, Deterministic Sequential Optimization Track*
for the planning system “Fast Downward Stone Soup-1”
at the 7th International Planning Competition (IPC 2011)
at ICAPS 2011 in Freiburg, Germany
(with Jörg Hoffmann, Erez Karpas, Emil Keyder, Raz Nissim,
Silvia Richter, Gabriele Röger, Jendrik Seipp and Matthias Westphal)
06/2011 *Runner-up ex-aequo, Deterministic Sequential Optimization Track*
for the planning system “Merge and Shrink”
at the 7th International Planning Competition (IPC 2011)
at ICAPS 2011 in Freiburg, Germany
(with Raz Nissim and Jörg Hoffmann)

- 06/2011 *Runner-up ex-aequo, Deterministic Sequential Optimization Track*
for the planning system “Selective Max”
at the 7th International Planning Competition (IPC 2011)
at ICAPS 2011 in Freiburg, Germany
(with Erez Karpas, Carmel Domshlak and Shaul Markovitch)
- 06/2011 *Winner, Deterministic Sequential Satisficing Track*
for the planning system “LAMA 2011”
at the 7th International Planning Competition (IPC 2011)
at ICAPS 2011 in Freiburg, Germany
(with Silvia Richter, Matthias Westphal and Gabriele Röger)
- 06/2011 *Runner-up, Deterministic Sequential Satisficing Track*
for the planning system “Fast Downward Stone Soup-1”
at the 7th International Planning Competition (IPC 2011)
at ICAPS 2011 in Freiburg, Germany
(with Erez Karpas, Silvia Richter, Gabriele Röger and Jendrik Seipp)
- 06/2011 *Runner-up, Learning Part*
for the planning system “Fast Downward Autotune-speed”
at the 7th International Planning Competition (IPC 2011)
at ICAPS 2011 in Freiburg, Germany
(with Chris Fawcett, Holger Hoos, Erez Karpas, Gabriele Röger
and Jendrik Seipp)
- 08/2010 *Best Paper Award* for the paper
“Strengthening Landmark Heuristics via Hitting Sets”
at ECAI 2010 in Lisbon, Portugal
(with Blai Bonet)
- 07/2010 *Best Poster Presentation Award* for the presentation of the paper
“High-Quality Policies for the Canadian Traveler’s Problem”
at SoCS 2010 in Stone Mountain, Georgia, USA
(with Patrick Eyerich and Thomas Keller)
- 09/2009 *Best Paper Award* for the paper
“Landmarks, Critical Paths and Abstractions: What’s the Difference
Anyway?”
at ICAPS 2009 in Thessaloniki, Greece
(with Carmel Domshlak)
- 07/2009 *IJCAI-JAIR Best Paper Prize Honorable Mention* for the paper
“The Fast Downward Planning System”
(selected as 2nd best from eligible JAIR papers published in 2004–2009)
awarded at IJCAI 2009 in Pasadena, California, USA
- 07/2008 *Outstanding Paper Award* for the paper
“How Good is Almost Perfect?”
at AAAI 2008 in Chicago, Illinois, USA
(with Gabriele Röger)
- 09/2007 *ICAPS Outstanding Dissertation Award Honorable Mention*
for PhD dissertation “Solving Planning Tasks in Theory and Practice”
at ICAPS 2007 in Providence, Rhode Island, USA

- 09/2007 *Best Research Paper Award* for the paper
“Flexible Abstraction Heuristics for Optimal Sequential Planning”
at ICAPS 2007 in Providence, Rhode Island, USA
(with Patrik Haslum and Jörg Hoffmann)
- 07/2007 *AAAI 2007 Outstanding Program Committee Award Honorable Mention*
at AAAI 2007 in Vancouver, British Columbia, Canada
- 12/2006 *Lehrpreis des Landes Baden-Württemberg* (state teaching award)
for the “Sommercampus” event (as a co-organizer; 40 000 EUR)
- 06/2004 *1st Prize, Suboptimal Propositional Track*
for the planning system “Fast (Diagonally) Downward”
at the 4th International Planning Competition (IPC 2004)
at ICAPS 2004 in Whistler, British Columbia, Canada
(with Silvia Richter)
- 06/2004 *Best Student Paper Award* for the paper
“A Planning Heuristic Based on Causal Graph Analysis”
at ICAPS 2004 in Whistler, British Columbia, Canada
- 09/2001 *PLANET Award for Research Excellence* for the paper
“On the Complexity of Planning in Transportation Domains”
at ECP 2001 in Toledo, Spain
- 04/2001 *VDI-Förderpreis* (award of the Association of German Engineers)
for Diplomarbeit (Master’s thesis equivalent) “On the Complexity
of Planning in Transportation and Manipulation Domains”
- 04/2000 *Distinguished Planner Award*
for the planning system “MIPS”
at the 2nd International Planning Competition (IPC 2000)
at AIPS 2000 in Breckenridge, Colorado, USA
(with Stefan Edelkamp)

Teaching and supervision

Teaching experience: as lecturer

- SS 2010: *Handlungsplanung* (Principles of AI planning)
at Albert-Ludwigs-Universität Freiburg.
Class taught jointly with Prof. Dr. Bernhard Nebel.
- FS 2010: *Grundlagen der Künstlichen Intelligenz* (Foundations of Artificial Intelligence)
at Universität Basel, Switzerland.
Class taught jointly with Prof. Dr. Wolfram Burgard, Prof. Dr. Bernhard Nebel and
Prof. Dr. Volker Roth.
- WS 2009/2010: *Theoretical Computer Science II*
at Albert-Ludwigs-Universität Freiburg.
Class taught jointly with Dr. Andreas Karwath.
- FS 2009: *Grundlagen der Künstlichen Intelligenz* (Foundations of Artificial Intelligence)
at Universität Basel, Switzerland.

Class taught jointly with Prof. Dr. Wolfram Burgard, Prof. Dr. Bernhard Nebel and Prof. Dr. Volker Roth.

- WS 2008/2009: *Handlungsplanung* (Principles of AI planning) at Albert-Ludwigs-Universität Freiburg.
- SS 2008: *Principles of knowledge representation and reasoning* at Albert-Ludwigs-Universität Freiburg.
Class taught jointly with Prof. Dr. Bernhard Nebel and Dr. Stefan Wölfl.
- WS 2007/2008: *Spieltheorie* (Game theory) at Albert-Ludwigs-Universität Freiburg.
Class taught jointly with Prof. Dr. Bernhard Nebel.
- SS 2007: *Grundlagen der Künstlichen Intelligenz* (Foundations of Artificial Intelligence) at Universität Basel, Switzerland.
Class taught jointly with Prof. Dr. Wolfram Burgard, Prof. Dr. Bernhard Nebel.
- SS 2007: *Constraint-Satisfaction-Probleme* (Constraint satisfaction problems) at Albert-Ludwigs-Universität Freiburg.
Class taught jointly with Dr. Stefan Wölfl.
- WS 2006/2007: *Handlungsplanung* (Principles of AI planning) at Albert-Ludwigs-Universität Freiburg.
Class taught jointly with Prof. Dr. Bernhard Nebel.
- SS 2006: *Grundlagen der Künstlichen Intelligenz* (Foundations of Artificial Intelligence) at Universität Basel, Switzerland.
Class taught jointly with Prof. Dr. Wolfram Burgard, Prof. Dr. Luc De Raedt.
- WS 2001/2002: *Informatik 1* (Introduction to computer science) at Berufsakademie Lörrach (“university of cooperative education”, comparable to *Fachhochschule*).
Class taught jointly with PD Dr. Stefan Edelkamp.

All classes I taught were evaluated by the participating students, with excellent results. Detailed evaluation results are available on request.

Teaching experience: as teaching assistant

- WS 2005/2006: *Prinzipien der Wissensrepräsentation* (Principles of knowledge representation) at Albert-Ludwigs-Universität Freiburg.
Class taught by Prof. Dr. Bernhard Nebel, Dr. Stefan Wölfl.
- SS 2005: *Spieltheorie* (Game theory) at Albert-Ludwigs-Universität Freiburg.
Class taught by Prof. Dr. Bernhard Nebel.

- WS 2004/2005: *Prinzipien der Wissensrepräsentation* (Principles of knowledge representation) at Albert-Ludwigs-Universität Freiburg. Class taught by Prof. Dr. Bernhard Nebel, Dr. Jussi Rintanen, Dr. Stefan Wölfl.
- SS 2004: *Spieltheorie* (Game theory) at Albert-Ludwigs-Universität Freiburg. Class taught by Prof. Dr. Bernhard Nebel.
- SS 2003: *Principles of knowledge representation* at Albert-Ludwigs-Universität Freiburg. Class taught by Prof. Dr. Bernhard Nebel, Dr. Jussi Rintanen.
- WS 2002/2003: *AI planning* at Albert-Ludwigs-Universität Freiburg. Class taught by Dr. Jussi Rintanen.
- SS 2002: *Game theory* at Albert-Ludwigs-Universität Freiburg. Class taught by Prof. Dr. Bernhard Nebel, Dr. Jussi Rintanen.

In all classes I supported as a teaching assistant, my performance was evaluated by the participating students, with excellent results. Detailed evaluation results are available on request.

Teaching experience: practicals

- SS 2009: Practical *Grundlagen der Künstlichen Intelligenz* (Foundations of Artificial Intelligence) at Albert-Ludwigs-Universität Freiburg. Organized the course.

Teaching experience: seminars

- SS 2010: Postgraduate seminar *Reading group on planning and search* at Albert-Ludwigs-Universität Freiburg. Organized the reading group.
- SS 2010: Seminar *Gruppenaktionen in dynamischen, unsicheren Umgebungen* (Group actions in dynamic, uncertain environments) at Albert-Ludwigs-Universität Freiburg. Supervised two students.
- WS 2009/2010: Postgraduate seminar *Reading group on planning and search* at Albert-Ludwigs-Universität Freiburg. Organized the reading group.
- WS 2009/2010: Seminar *Spiele* (Games) at Albert-Ludwigs-Universität Freiburg. Supervised two students.

- SS 2009: Postgraduate seminar *Reading group on planning and search* at Albert-Ludwigs-Universität Freiburg. Organized the reading group.
- SS 2009: Seminar *Selbstbezüglichkeit* (Self-referentiality) at Albert-Ludwigs-Universität Freiburg. Supervised two students.
- SS 2008: Seminar *Logik in der KI* (Logic in AI) at Albert-Ludwigs-Universität Freiburg. Supervised one student.
- WS 2007/2008: Seminar *Handlungsplanung und Modelchecking* (AI planning and model checking) at Albert-Ludwigs-Universität Freiburg. Organized seminar.
- SS 2005: Seminar *Gruppenaktionen in dynamischen, unsicheren Umgebungen* (Group actions in dynamic, uncertain environments) at Albert-Ludwigs-Universität Freiburg. Supervised two students.
- SS 2004: Seminar *Theorie und Praxis autonomer Systeme* (Theory and practice of autonomous systems) at Albert-Ludwigs-Universität Freiburg. Supervised one student.
- SS 2003: Seminar *Spiele, Spieltheorie und Multiagentensysteme* (Games, game theory and multi-agent systems) at Albert-Ludwigs-Universität Freiburg. Organized seminar and supervised six students.

Other teaching activities

I am one of the main initiators of the *Sommercampus* event (jointly with Thomas Nunninger) and, jointly with Thomas Nunninger and Janis Fehr, have done the bulk of the organization work for the events Sommercampus 2004–2009. The Baden-Württemberg ministry of education has recognized the Sommercampus with the *Landeslehrpreis 2006* (state teaching award), worth 40 000 EUR.

The Sommercampus is a “grass-roots” initiative to foster teaching and learning at the Faculty of Engineering at Albert-Ludwigs-Universität Freiburg outside the regular curricula. A description of its goals and successes can be found in the application leaflet for the Landeslehrpreis 2006, available online (in German) at <http://www.informatik.uni-freiburg.de/~helmert/lehrpreis-vorschlag-2006.pdf>.

- 2009: Co-organized Sommercampus 2009. See <http://sommercampus2009.informatik.uni-freiburg.de/>.
- 2008: Co-organized Sommercampus 2008. See <http://sommercampus2008.informatik.uni-freiburg.de/>.

- 2007: Co-organized Sommercampus 2007.
See <http://sommercampus2007.informatik.uni-freiburg.de/>.
- 2006: Co-organized Sommercampus 2006.
See <http://sommercampus2006.informatik.uni-freiburg.de/>.
- 2005: Co-organized Sommercampus 2005.
See <http://sommercampus2005.informatik.uni-freiburg.de/>.
- 2005: Taught course *Programmieren in Python* (Programming in Python) at Sommercampus 2005.
- 2004: Co-organized Sommercampus 2004.
See <http://sommercampus2004.informatik.uni-freiburg.de/>.
- 2004: Taught course *Programmieren in Python* (Programming in Python) at Sommercampus 2004.

Service in PhD and MSc committees

- Served in MSc committee of Tansel Uras.
Sabancı University, Istanbul, Turkey, 2011.
- Served in PhD proposal committee of Michael Katz.
Technion, Haifa, Israel, 2007.

Supervised PhD students

- Silvia Richter, *Landmark-Based Heuristics and Search Control for Automated Planning*.
Griffith University, Brisbane, Australia, March 2011.
(As associate supervisor, jointly supervised with Abdul Sattar and Charles Gretton.)
Shortlisted for Griffith University's Chancellor's Medal.

Supervised diploma theses (“Diplomarbeiten”)

- Jens Witkowski, *Truthful Feedback for Reputation Mechanisms*.
Albert-Ludwigs-Universität Freiburg, May 2009.
- Stefan Schleipen, *Problemvereinfachung für numerische Planungsprobleme*.
Albert-Ludwigs-Universität Freiburg, April 2009.
- Christoph Betz, *Komplexität und Berechnung der h^+ -Heuristik*.
Albert-Ludwigs-Universität Freiburg, February 2009.
- Dennis Jung, *Eine automatentheoretische Heuristik für klassische Planungsprobleme*.
Albert-Ludwigs-Universität Freiburg, July 2007.
- Benjamin Lempp, *Algorithmen für teilerfüllendes Planen*.
Albert-Ludwigs-Universität Freiburg, March 2007.
(Jointly supervised with Robert Mattmüller.)

- Michael Drescher, *Approximationseigenschaften von Transportproblemen in der Handlungsplanung*.
Albert-Ludwigs-Universität Freiburg, January 2006.
- Uwe Zeisberger, *Pfadplanung unter Unsicherheit*.
Albert-Ludwigs-Universität Freiburg, April 2005.
- Sebastian Kupferschmid, *Entwicklung eines Double-Dummy Skat Solvers mit einer Anwendung für verdeckte Skatispiele*.
Albert-Ludwigs-Universität Freiburg, July 2003.

Supervised Master's theses

- Yusra Alkhazraji. *Evaluating partial-order reduction methods for planning* (working title).
Albert-Ludwigs-Universität Freiburg, submission expected April 2012.
(Jointly supervised with Robert Mattmüller.)
- Silvan Sievers. *Implementierung des UCT- und CFR-Algorithmus für Computer-Skat* (working title).
Albert-Ludwigs-Universität Freiburg, submission expected April 2012.
- Florian Pommerening. *Optimal Algorithms for Delete-Free Planning Tasks* (working title).
Albert-Ludwigs-Universität Freiburg, submission expected December 2011.

Supervised Bachelor's theses

- Manuel Heusner, *UCT for Pac-Man* (working title).
Universität Basel, submission expected November 2011.
- Jendrik Seipp, *Fluent Merging für klassische Planungsprobleme*.
Albert-Ludwigs-Universität Freiburg, September 2009.
- Diana Hille, *Analyse des SGPlan*.
Albert-Ludwigs-Universität Freiburg, September 2009.
- David Goergen, *Kompakte Kodierungen monotoner boolescher Funktionen*.
Albert-Ludwigs-Universität Freiburg, May 2008.

Reviewing of Bachelor's theses

All supervised Bachelor's theses (see previous point) and:

- Silvan Sievers, *Erweiterung eines Planungssystems zum Lösen von Ein-Personen-Spielen*.
Albert-Ludwigs-Universität Freiburg, October 2009.
- Jonas Sternisko, *Einfluss der Finite-Domain-Repräsentation auf die Performance von Planungssystemen*.
Albert-Ludwigs-Universität Freiburg, September 2009.

Supervised semester projects for Bachelor students

- Simon Rettberg, Silvan Sievers, Jens Silva, *Optimale additive Kombination von Abstraktionsheuristiken*.
Albert-Ludwigs-Universität Freiburg, August 2009.

Supervised semester projects for Master students

- Yusra Alkharaji, *Mutual Exclusion Invariant Synthesis for Planning Tasks*.
Albert-Ludwigs-Universität Freiburg, submission expected October 2011.
(Jointly supervised with Gabriele Röger.)
- Manuela Ortlieb, Silvan Sievers, *High-Performance-Implementierung von Musterdatenbankheuristiken in einem domänenunabhängigen Handlungsplanungssystem*.
Albert-Ludwigs-Universität Freiburg, July 2011.
- Johannes Aldinger, *Approaching the Canadian Traveler's Problem with Remote Sensing*.
Albert-Ludwigs-Universität Freiburg, April 2011.
(Jointly supervised with Patrick Eyerich and Thomas Keller.)

Supervised semester theses (“Studienarbeiten”)

- Jens Witkowski, *Eliciting honest reputation feedback in a Markov setting*.
Albert-Ludwigs-Universität Freiburg, August 2008.
- Matthias Westphal, *Zielordnungen und Landmarken für SAS⁺-Planer*.
Albert-Ludwigs-Universität Freiburg, July 2007.
- Zeno Gantner, *Ein generischer Reasoner für qualitative Kalküle*.
Albert-Ludwigs-Universität Freiburg, October 2006.
(Jointly supervised with Bernhard Nebel and Stefan Wöfl.)
- Benjamin Lempp, *Natürlichere Problemspezifikation in PDDL*.
Albert-Ludwigs-Universität Freiburg, April 2006.
- Robert Mattmüller, *Approximatives Planen in der Grid-Domäne*.
Albert-Ludwigs-Universität Freiburg, May 2005.
- Gabriele Röger, *Approximationsverfahren für Planungsprobleme in den Domänen Satellite, Depots und DriverLog*.
Albert-Ludwigs-Universität Freiburg, March 2005.
- Marianne Mueller, *Untersuchung von Zustandsräumen in Zwei-Personen-Spielen*.
Albert-Ludwigs-Universität Freiburg, May 2003.

Scientific publications

Books

1. Fahiem Bacchus, Carmel Domshlak, Stefan Edelkamp and Malte Helmert (eds.).

Proceedings of the 21st International Conference on Automated Planning and Scheduling (ICAPS 2011).

AAAI Press, Menlo Park, California, USA, 2011.

2. Malte Helmert.
Understanding Planning Tasks: Domain Complexity and Heuristic Decomposition.
Volume 4929 of Lecture Notes in Artificial Intelligence.
Springer-Verlag, Heidelberg, 2008.

Dissertations and theses

3. Malte Helmert.
Solving Planning Tasks in Theory and Practice.
PhD dissertation.
Albert-Ludwigs-Universität Freiburg, Germany, 2006.
**Distinguished with an ICAPS 2007 Outstanding Dissertation Award
Honorable Mention.**
4. Malte Helmert.
On the Complexity of Planning in Transportation and Manipulation Domains.
Diplomarbeit (Master's thesis equivalent).
Albert-Ludwigs-Universität Freiburg, Germany, 2001.
**Distinguished with the VDI-Förderpreis (award of the Association of
German Engineers).**

Journal articles

5. Jörg Hoffmann, Piergiorgio Bertoli, Malte Helmert and Marco Pistore.
*Message-Based Web Service Composition, Integrity Constraints, and Planning under
Uncertainty: A New Connection.*
Journal of Artificial Intelligence Research 35:49–117, 2009.
6. Malte Helmert.
Concise finite-domain representations for PDDL planning tasks.
Artificial Intelligence 173:503–535, 2009.
7. Malte Helmert.
The Fast Downward Planning System.
Journal of Artificial Intelligence Research 26:191–246, 2006.
**Distinguished as runner-up for the 2009 IJCAII-JAIR Best Paper Prize,
chosen as 2nd best paper among the eligible JAIR papers published in
2004–2009.**
8. Malte Helmert.
Complexity results for standard benchmark domains in planning.
Artificial Intelligence 143(2):219–262, 2003.
9. Stefan Edelkamp and Malte Helmert.
The Model Checking Integrated Planning System (MIPS).
AI Magazine 22(3):67–71, 2001.

Conference papers

10. Raz Nissim, Jörg Hoffmann and Malte Helmert.
Computing Perfect Heuristics in Polynomial Time: On Bisimulation and Merge-and-Shrink Abstractions in Optimal Planning.
In Proceedings of the Twenty-Second International Joint Conference on Artificial Intelligence (IJCAI 2011), pp. 1983–1990, 2011.
11. Blai Bonet and Malte Helmert.
Strengthening Landmark Heuristics via Hitting Sets.
In Proceedings of the 19th European Conference on Artificial Intelligence (ECAI 2010), pp. 329–334, 2010.
Distinguished with the ECAI 2010 Best Paper Award.
12. Malte Helmert and Gabriele Röger.
Relative-Order Abstractions for the Pancake Problem.
In Proceedings of the 19th European Conference on Artificial Intelligence (ECAI 2010), pp. 745–750, 2010.
13. Emil Keyder, Silvia Richter and Malte Helmert.
Sound and Complete Landmarks for And/Or Graphs.
In Proceedings of the 19th European Conference on Artificial Intelligence (ECAI 2010), pp. 335–340, 2010.
14. Patrick Eyerich, Thomas Keller and Malte Helmert.
High-Quality Policies for the Canadian Traveler’s Problem.
In Proceedings of the 24th AAAI Conference on Artificial Intelligence (AAAI 2010), pp. 51–58, 2010.
15. Malte Helmert.
Landmark Heuristics for the Pancake Problem.
In Proceedings of the Third Annual Symposium on Combinatorial Search (SoCS 2010), pp. 109–110, 2010.
16. Patrick Eyerich, Thomas Keller and Malte Helmert.
High-Quality Policies for the Canadian Traveler’s Problem (Extended Abstract).
In Proceedings of the Third Annual Symposium on Combinatorial Search (SoCS 2010), pp. 147–148, 2010.
Distinguished with the SoCS 2010 Best Poster Presentation Award.
17. Malte Helmert and Hauke Lasinger.
The Scanalyzer Domain: Greenhouse Logistics as a Planning Problem.
In Proceedings of the Twentieth International Conference on Automated Planning and Scheduling (ICAPS 2010), pp. 234–237, 2010.
18. Robert Mattmüller, Manuela Ortlieb, Malte Helmert and Pascal Bercher.
Pattern Database Heuristics for Fully Observable Nondeterministic Planning.
In Proceedings of the Twentieth International Conference on Automated Planning and Scheduling (ICAPS 2010), pp. 105–112, 2010.

19. Gabriele Röger and Malte Helmert.
The More, the Merrier: Combining Heuristic Estimators for Satisficing Planning.
In Proceedings of the Twentieth International Conference on Automated Planning and Scheduling (ICAPS 2010), pp. 246–249, 2010.
20. Dunbo Cai, Jörg Hoffmann and Malte Helmert.
Enhancing the Context-Enhanced Additive Heuristic with Precedence Constraints.
In Proceedings of the Nineteenth International Conference on Automated Planning and Scheduling (ICAPS 2009), pp. 50–57, 2009.
21. Malte Helmert and Carmel Domshlak.
Landmarks, Critical Paths and Abstractions: What’s the Difference Anyway?
In Proceedings of the Nineteenth International Conference on Automated Planning and Scheduling (ICAPS 2009), pp. 162–169, 2009.
Distinguished with the ICAPS 2009 Best Paper Award.
22. Silvia Richter and Malte Helmert.
Preferred Operators and Deferred Evaluation in Satisficing Planning.
In Proceedings of the Nineteenth International Conference on Automated Planning and Scheduling (ICAPS 2009), pp. 273–280, 2009.
23. Christoph Betz and Malte Helmert.
Planning with h^+ in Theory and Practice.
In Proceedings of the 32nd Annual German Conference on Artificial Intelligence (KI 2009), pp. 9–16, 2009.
24. Martin Wehrle and Malte Helmert.
The Causal Graph Revisited for Directed Model Checking.
In Proceedings of the 16th International Static Analysis Symposium (SAS 2009), pp. 86–101, 2009.
25. Malte Helmert and Héctor Geffner.
Unifying the Causal Graph and Additive Heuristics.
In Proceedings of the Eighteenth International Conference on Automated Planning and Scheduling (ICAPS 2008), pp. 140–147, 2008.
One of six ICAPS 2008 papers nominated for fast-track review in *Artificial Intelligence*.
26. Gabriele Röger, Malte Helmert and Bernhard Nebel.
On the Relative Expressiveness of ADL and Golog: The Last Piece in the Puzzle.
In Proceedings of the Eleventh International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), pp. 544–550, 2008.
27. Malte Helmert, Patrik Haslum and Jörg Hoffmann.
Explicit-State Abstraction: A New Method for Generating Heuristic Functions.
In Proceedings of the 23rd AAAI Conference on Artificial Intelligence (AAAI 2008), pp. 1547–1550, 2008.
28. Malte Helmert and Robert Mattmüller.
On the Accuracy of Admissible Heuristic Functions in Selected Planning Domains.

- In Proceedings of the 23rd AAAI Conference on Artificial Intelligence (AAAI 2008), pp. 938–943, 2008.
29. Malte Helmert and Gabriele Röger.
How Good is Almost Perfect?
In Proceedings of the 23rd AAAI Conference on Artificial Intelligence (AAAI 2008), pp. 944–949, 2008.
Distinguished with the AAAI 2008 Outstanding Paper Award.
30. Silvia Richter, Malte Helmert and Matthias Westphal.
Landmarks Revisited.
In Proceedings of the 23rd AAAI Conference on Artificial Intelligence (AAAI 2008), pp. 975–982, 2008.
31. Malte Helmert, Patrik Haslum and Jörg Hoffmann.
Flexible Abstraction Heuristics for Optimal Sequential Planning.
In Proceedings of the Seventeenth International Conference on Automated Planning and Scheduling (ICAPS 2007), pp. 176–183, 2007.
Distinguished with the ICAPS 2007 Best Research Paper Award.
32. Silvia Richter, Malte Helmert and Charles Gretton.
A Stochastic Local Search Approach to Vertex Cover.
In Proceedings of the 30th Annual German Conference on Artificial Intelligence (KI 2007), pp. 412–426, 2007.
One of three papers shortlisted for the KI 2007 Springer Best Paper Award.
33. Patrik Haslum, Adi Botea, Malte Helmert, Blai Bonet and Sven Koenig.
Domain-Independent Construction of Pattern Database Heuristics for Cost-Optimal Planning.
In Proceedings of the 22nd AAAI Conference on Artificial Intelligence (AAAI 2007), pp. 1007–1012, 2007.
34. Malte Helmert, Robert Mattmüller and Sven Schewe.
Selective Approaches for Solving Weak Games.
In Proceedings of the Fourth International Symposium on Automated Technology for Verification and Analysis (ATVA 2006), pp. 200–214, 2006.
35. Malte Helmert, Robert Mattmüller and Gabriele Röger.
Approximation Properties of Planning Benchmarks.
In Proceedings of the 17th European Conference on Artificial Intelligence (ECAI 2006), pp. 585–589, 2006.
36. Malte Helmert.
New Complexity Results for Classical Planning Benchmarks.
In Proceedings of the Sixteenth International Conference on Automated Planning and Scheduling (ICAPS 2006), pp. 52–61, 2006.
37. Sebastian Kupferschmid and Malte Helmert.
A Skat Player Based on Monte Carlo Simulation.

In Proceedings of the Fifth International Conference on Computers and Games (CG 2006), pp. 135–147, 2006.

38. Malte Helmert.
A Planning Heuristic Based on Causal Graph Analysis.
In Proceedings of the Fourteenth International Conference on Automated Planning and Scheduling (ICAPS 2004), pp. 161–170, 2004.
Distinguished with the ICAPS 2004 Best Student Paper Award.
39. Malte Helmert.
Decidability and Undecidability Results for Planning with Numerical State Variables.
In Proceedings of the Sixth International Conference on Artificial Intelligence Planning and Scheduling (AIPS 2002), pp. 303–312, 2002.
40. Malte Helmert.
On the Complexity of Planning in Transportation Domains.
In Proceedings of the Sixth European Conference on Planning (ECP 2001), pp. 349–360, 2001.
Distinguished with the PLANET Award for Research Excellence.
41. Stefan Edelkamp and Malte Helmert.
Exhibiting Knowledge in Planning Problems to Minimize State Encoding Length.
In Proceedings of the Fifth European Conference on Planning (ECP 1999), pp. 135–147, 1999.

Workshop papers, papers at conferences with non-archival proceedings and similar

42. Carmel Domshlak, Malte Helmert, Erez Karpas, Emil Keyder, Silvia Richter, Gabriele Röger, Jendrik Seipp and Matthias Westphal.
BJOLP: The Big Joint Optimal Landmarks Planner.
Planner abstract, Seventh International Planning Competition (IPC 2011), Deterministic Part, pp. 91–95.
Freiburg, Germany, 2011.
43. Silvia Richter, Matthias Westphal and Malte Helmert.
LAMA 2008 and 2011.
Planner abstract, Seventh International Planning Competition (IPC 2011), Deterministic Part, pp. 50–54.
Freiburg, Germany, 2011.
Distinguished as “Winner, Deterministic Sequential Satisficing Track” of IPC 2011 (LAMA 2011).
44. Malte Helmert and Carmel Domshlak.
LM-Cut: Optimal Planning with the Landmark-Cut Heuristic.
Planner abstract, Seventh International Planning Competition (IPC 2011), Deterministic Part, pp. 103–105.
Freiburg, Germany, 2011.

45. Raz Nissim, Jörg Hoffmann and Malte Helmert.
The Merge-and-Shrink Planner: Bisimulation-based Abstraction for Optimal Planning.
 Planner abstract, Seventh International Planning Competition (IPC 2011),
 Deterministic Part, pp. 106–107.
 Freiburg, Germany, 2011.
**Distinguished as “Runner-up ex-aequo, Deterministic Sequential
 Optimization Track” of IPC 2011.**
46. Carmel Domshlak, Malte Helmert, Erez Karpas and Shaul Markovitch.
The SelMax Planner: Online Learning for Speeding up Optimal Planning.
 Planner abstract, Seventh International Planning Competition (IPC 2011),
 Deterministic Part, pp. 108–112.
 Freiburg, Germany, 2011.
**Distinguished as “Runner-up ex-aequo, Deterministic Sequential
 Optimization Track” of IPC 2011.**
47. Malte Helmert, Gabriele Röger, Jendrik Seipp, Erez Karpas, Jörg Hoffmann, Emil
 Keyder, Raz Nissim, Silvia Richter and Matthias Westphal.
Fast Downward Stone Soup.
 Planner abstract, Seventh International Planning Competition (IPC 2011),
 Deterministic Part, pp. 38–45.
 Freiburg, Germany, 2011.
**Distinguished as “Winner, Deterministic Sequential Optimization Track”
 and as “Runner-up, Deterministic Sequential Satisficing Track” of IPC
 2011.**
48. Chris Fawcett, Malte Helmert, Holger Hoos, Erez Karpas, Gabriele Röger and Jendrik
 Seipp.
FD-Autotune: Automated Configuration of Fast Downward.
 Planner abstract, Seventh International Planning Competition (IPC 2011),
 Deterministic Part, pp. 31–37.
 Freiburg, Germany, 2011.
49. Chris Fawcett, Malte Helmert, Holger Hoos, Erez Karpas, Gabriele Röger and Jendrik
 Seipp.
FD-Autotune: Domain-Specific Configuration using Fast Downward.
 Planner abstract, Seventh International Planning Competition (IPC 2011), Planning
 and Learning Part.
 Freiburg, Germany, 2011.
Distinguished as “Runner-up, Learning Part” of IPC 2011.
50. Raz Nissim, Jörg Hoffmann and Malte Helmert.
*Computing Perfect Heuristics in Polynomial Time: On Bisimulation and
 Merge-and-Shrink Abstractions in Optimal Planning.*
 ICAPS-2011 Workshop on Heuristics for Domain-independent Planning (HDIP),
 pp. 5–13.
 Freiburg, Germany, 2011.
51. Jendrik Seipp and Malte Helmert.

- Fluent Merging for Classical Planning Problems.*
 ICAPS-2011 Workshop on Knowledge Engineering for Planning and Scheduling (KEPS), pp. 47–53.
 Freiburg, Germany, 2011.
52. Malte Helmert, Gabriele Röger and Erez Karpas.
Fast Downward Stone Soup: A Baseline for Building Planner Portfolios.
 ICAPS-2011 Workshop on Planning and Learning (PAL), pp. 28–35.
 Freiburg, Germany, 2011.
53. Chris Fawcett, Malte Helmert, Holger Hoos, Erez Karpas, Gabriele Röger and Jendrik Seipp.
FD-Autotune: Domain-Specific Configuration using Fast Downward.
 ICAPS-2011 Workshop on Planning and Learning (PAL), pp. 13–20.
 Freiburg, Germany, 2011.
54. Malte Helmert.
Lessons Learned from Benchmarking in the Automated Planning Community.
 ECAI-2010 Workshop on Benchmarking Intelligent (Multi-) Robot Systems.
 Lisbon, Portugal, 2010.
55. Patrick Eyerich, Thomas Keller and Malte Helmert.
High-Quality Policies for the Canadian Traveler’s Problem.
 ICAPS-2010 Workshop on Planning and Scheduling Under Uncertainty.
 Toronto, Canada, 2010.
56. Christoph Betz and Malte Helmert.
Planning with h^+ in Theory and Practice.
 ICAPS-2009 Workshop on Heuristics for Domain-independent Planning.
 Thessaloniki, Greece, 2009.
57. Gabriele Röger and Malte Helmert.
Combining Heuristic Estimators for Satisficing Planning.
 ICAPS-2009 Workshop on Heuristics for Domain-independent Planning.
 Thessaloniki, Greece, 2009.
58. Malte Helmert.
Research Statement: Heuristic Search for Domain-Independent Planning.
 International Symposium on Combinatorial Search (SoCS 2009).
 Lake Arrowhead, California, USA, 2009.
59. Malte Helmert and Gabriele Röger.
How Good is Almost Perfect?
 ICAPS-2007 Workshop on Heuristics for Domain-independent Planning: Progress, Ideas, Limitations, Challenges.
 Providence, Rhode Island, USA, 2007.
60. Malte Helmert and Robert Mattmüller.
On the Accuracy of Admissible Heuristic Functions in Selected Planning Domains.

ICAPS-2007 Workshop on Heuristics for Domain-independent Planning: Progress, Ideas, Limitations, Challenges.
Providence, Rhode Island, USA, 2007.

61. Stefan Edelkamp and Malte Helmert.
On the Implementation of MIPS.
AIPS-2000 Workshop on Model-Theoretic Approaches to Planning.
Breckenridge, Colorado, USA, 2000.

Professional service

Editing of scientific journals

- *Journal of Artificial Intelligence Research:*
JAIR associate editor, 2010–2013
- *Journal of Artificial Intelligence Research:*
member of JAIR editorial board, 2007–2010

Membership in programme committees (PC) and senior programme committees (SPC) of scientific conferences

- *AAAI Conference on Artificial Intelligence:*
SPC member for AAAI 2011, AAAI 2012
PC member for AAAI 2007, AAAI 2008, AAAI 2010
- *Conference of the Spanish Association for Artificial Intelligence:*
PC member for CAEPIA 2009
- *European Conference on Artificial Intelligence:*
PC member for ECAI 2006, ECAI 2008, ECAI 2010
- *International Conference on Automated Planning and Scheduling:*
PC member for ICAPS 2005, ICAPS 2006, ICAPS 2007, ICAPS 2008, ICAPS 2009, ICAPS 2010, ICAPS 2012
- *International Joint Conference on Artificial Intelligence:*
SPC member for IJCAI 2011
PC member for IJCAI 2009
- *International Symposium on Artificial Intelligence and Mathematics:*
PC member for ISAIM 2008, ISAIM 2010
- *Annual Conference on Artificial Intelligence:*
PC member for KI 2009, KI 2010, KI 2011
- *International Symposium on Combinatorial Search:*
PC member for SoCS 2009, SoCS 2010, SoCS 2011

Organization of conferences and similar

- *International Conference on Automated Planning and Scheduling:*
Conference chair for ICAPS 2011 (co-chair Stefan Edelkamp) in Freiburg, Germany
- *Advanced Course on AI:*
Organizer of ACAI 2011 summer school in Munzingen, Germany
(co-chairs Michael Brenner, Bernhard Nebel and Gabriele Röger)
- *International Planning Competition:*
Organizer of IPC-6, deterministic part, 2008
(co-chairs Minh Binh Do and Ioannis Refanidis)

Organization of workshops

- *2nd Workshop on Heuristics for Domain-independent Planning:*
ICAPS 2009 workshop organizer
(with Carmel Domshlak and Jörg Hoffmann)
- *Competitions in Artificial Intelligence and Robotics:*
IJCAI 2009 workshop organizer
(with Johan de Kleer, Lukas Kuhn and Paul E. Rybski)
- *International Planning Competition: Past, Present and Future:*
ICAPS 2007 workshop organizer
(with Minh Binh Do, Alan Fern and Ioannis Refanidis)
- *Heuristics for Domain-independent Planning: Progress, Ideas, Limitations, Challenges:*
ICAPS 2007 workshop organizer
(with Blai Bonet, Carmel Domshlak, Héctor Geffner, Patrik Haslum, Jörg Hoffmann and Vincent Vidal)
- *16. Workshop “Planen, Scheduling und Konfigurieren, Entwerfen” (PuK-2002):*
local arrangements chair

Service in conference committees and similar

- *International Conference on Automated Planning and Scheduling:*
Member of ICAPS Executive Council, 2011–2017
- *International Planning Competition:*
Advisory committee member for IPC 2011
- *International Conference on Automated Planning and Scheduling:*
Judge for ICAPS 2010 Best Dissertation Award and ICAPS 2010 Influential Paper Award, 2010
- *International Planning Competition:*
IPC committee member (since 2009)

- *International Conference on Automated Planning and Scheduling:*
Tutorial chair for ICAPS 2009 (co-chair Russell Knight)
- *International Conference on Automated Planning and Scheduling:*
Judge for ICAPS 2008 Best Dissertation Award and ICAPS 2008 Influential Paper Award, 2008

Tutorials at scientific conferences and similar

- Tutorial/lecture on *Computational complexity of planning*
at *ICAPS 2009 Summer School on Automated Planning and Scheduling*
held in conjunction with ICAPS 2009, Thessaloniki, Greece, 2009
- Tutorial/lecture on *Planning as heuristic search: From basics to advanced methods*
at *ICAPS 2009 Summer School on Automated Planning and Scheduling*
held in conjunction with ICAPS 2009, Thessaloniki, Greece, 2009
(with Carmel Domshlak)
- Tutorial on *Abstraction heuristics for planning*
held at ICAPS 2008, Sydney, Australia, 2008
(with Patrik Haslum)
- Tutorial on *Planning and complexity*
held at ICAPS 2006, Lake District, United Kingdom, 2006

Invited presentations at conferences, workshops and international seminars

- Invited lecture at IJCAI 2011 (Computers and Thought Award Lecture),
held in Barcelona, Spain, July 2011.
Topic: *At Most Four Approaches to Heuristic Search*
- Invited speaker at the *IJCAI-2011 Workshop on Benchmarks and Applications of Spatial Reasoning*,
held in Barcelona, Spain, July 2011.
Topic: *Lessons Learned from Benchmarking in the Automated Planning Community*
- Invited speaker at the *ECAI-2010 Workshop on Benchmarking Intelligent (Multi-)Robot Systems*,
held in Lisbon, Portugal, August 2010.
Topic: *Lessons Learned from Benchmarking in the Automated Planning Community*
- Invited panelist at *Third Annual Symposium on Combinatorial Search (SoCS 2010)*,
held in Stone Mountain, Georgia, USA, July 2010.
Topic: *Domain-Independent versus Domain-Specific Search*
- Invited panelist at *Twentieth International Conference on Automated Planning and Scheduling (ICAPS 2010)*,
held in Toronto, Canada, May 2010.
Topic: *The Present and Future(s) of Planning*

- Speaker at Dagstuhl seminar *Graph Search Engineering* organized by Lubos Brim, Stefan Edelkamp, Eric Hansen and Peter Sanders, held at Schloss Dagstuhl, Wadern, Germany, November/December 2009.
Topic: *Landmarks, Critical Paths and Abstractions: What's the Difference Anyway?*
- Invited speaker at *First International Symposium on Search Techniques in Artificial Intelligence and Robotics (STAIR 2008)*, held in Chicago, Illinois, USA, July 2008.
Topic: *Automatically Deriving Abstraction Heuristics*
- Invited speaker at *First SFB/TR 8 Benchmark Workshop* (workshop of the interdisciplinary Transregional Collaborative Research Center Spatial Cognition), held in Etelsen, Germany, May 2007.
Topic: *Benchmarking in Planning*
- Speaker at Dagstuhl seminar *Directed Model Checking* organized by Stefan Edelkamp, Stefan Leue, Alberto Lluch-Lafuente and Willem Visser, held at Schloss Dagstuhl, Wadern, Germany, April 2006.
Topic: *A Planning Heuristic Based on Causal Graph Analysis*
- Speaker at Dagstuhl seminar *Exploration of Large State Spaces* organized by Tom L. Dean, Bernhard Nebel and Moshe Y. Vardi, held at Schloss Dagstuhl, Wadern, Germany, November 2001.
Topic: *Decidability and Undecidability Results for Planning with Numerical State Variables*

Invited speaker at universities and other research institutions

- Carnegie Mellon University, Pittsburgh, USA, May 2010.
Topic: *Landmarks, Critical Paths and Abstractions: What's the Difference Anyway?*
- Universidad Carlos III, Madrid, Spain, June 2009.
Topic: *Planning as heuristic search* (series of six invited lectures)
- Griffith University/NICTA Queensland, Brisbane, Australia, October 2008.
Topic: *How Good is Almost Perfect?*
- Australian National University/NICTA Canberra, Canberra, Australia, October 2008.
Topic: *How Good is Almost Perfect?*
- University of Strathclyde, Glasgow, United Kingdom, March 2008.
Topic: *How Good is Almost Perfect?*
- Universitat Pompeu Fabra, Barcelona, Spain, February 2008.
Topic: *How Good is Almost Perfect?*
- Universitat Pompeu Fabra, Barcelona, Spain, February 2008.
Topic: *Domain-Independent Construction of Pattern Database Heuristics for Cost-Optimal Planning*

- University of Strathclyde, Glasgow, United Kingdom, October 2005.
Topic: *Universal Game Playing — Initial Ideas and Some Experiments in Connect-Four*
- Durham University, Durham, United Kingdom, April 2001.
Topic: *On the Complexity of Planning in Transportation and Manipulation Domains*

Service in doctoral consortia

- ICAPS 2011 doctoral consortium
Mentor of Alejandro Machado, Universidad Simón Bolívar, Caracas, Venezuela
Mentor of Aldo Porco, Universidad Simón Bolívar, Caracas, Venezuela
- ICAPS 2010 doctoral consortium
PC member
Mentor of Vidal Alcázar, Universidad Carlos III, Madrid, Spain
Mentor of Bram Ridder, University of Strathclyde, Glasgow, United Kingdom
- ICAPS 2009 doctoral consortium
PC member
- ICAPS 2008 doctoral consortium
PC member
Mentor of Michael Katz, Technion, Haifa, Israel
Mentor of Ko-Hsin (Cindy) Wang, Australian National University, Canberra, Australia
- ICAPS 2007 doctoral consortium
PC member
Mentor of Emil Keyder, Universitat Pompeu Fabra, Barcelona, Spain

Reviewing for scientific journals

- *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*:
Reviewed for AIEDAM in 2006
- *Artificial Intelligence*:
Reviewed for AIJ in 2006, 2007, 2008, 2009, 2010 and 2011
- *Annals of Mathematics and Artificial Intelligence*:
Reviewed for AMAI in 2007, 2008 and 2010
- *Computational Intelligence*:
Reviewed for CI in 2008
- *International Journal on Artificial Intelligence Tools*:
Reviewed for IJAIT in 2005
- *Journal of Autonomous Agents and Multi-Agent Systems*:
Reviewed for JAAMAS in 2006
- *Journal of Artificial Intelligence Research*:
Reviewed for JAIR in 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 and 2010

- *Journal of Computer and System Sciences:*
Reviewed for JCSS in 2009
- *Journal of Scheduling:*
Reviewed for JOS in 2007, 2008
- *Künstliche Intelligenz:*
Reviewed for KI in 2009, 2010, 2011
- *Theoretical Computer Science:*
Reviewed for TCS in 2003, 2010

Reviewing for scientific conferences

- *AAAI Conference on Artificial Intelligence:*
Reviewed for AAAI 2002, AAAI 2005, AAAI 2007, AAAI 2008, AAAI 2010
- *International Conference on Artificial Intelligence Planning and Scheduling:*
Reviewed for AIPS 2002
- *Conference of the Spanish Association for Artificial Intelligence:*
Reviewed for CAEPIA 2009
- *Symposium of the German Association for Pattern Recognition:*
Reviewed for DAGM 2002, DAGM 2004
- *European Conference on Artificial Intelligence:*
Reviewed for ECAI 2002, ECAI 2006, ECAI 2008, ECAI 2010
- *International Conference on Automated Planning and Scheduling:*
Reviewed for ICAPS 2003, ICAPS 2004, ICAPS 2005, ICAPS 2006, ICAPS 2007, ICAPS 2008, ICAPS 2009, ICAPS 2010
- *IEEE International Conference on Tools with Artificial Intelligence:*
Reviewed for ICTAI 2007
- *International Joint Conference on Artificial Intelligence:*
Reviewed for IJCAI 2005, IJCAI 2007, IJCAI 2009, IJCAI 2011
- *International Symposium on Artificial Intelligence and Mathematics:*
Reviewed for ISAIM 2008, 2010
- *Annual Conference on Artificial Intelligence:*
Reviewed for KI 2009, KI 2011
- *International Conference on the Principles of Knowledge Representation and Reasoning:*
Reviewed for KR 2004, KR 2006
- *Pacific Rim International Conference on Artificial Intelligence:*
Reviewed for PRICAI 2004

- *International Symposium on Combinatorial Search:*
Reviewed for SoCS 2009, SoCS 2010, SoCS 2011
- *Starting AI Researcher Symposium:*
Reviewed for STAIRS 2004

Refereeing for research funding organizations

- *Hellenic Republic Ministry of Education, Lifelong Learning and Religious Affairs* (Greece):
Referee for three post-doc project proposals in the “Educational and Lifelong Learning” Programme in 2011
- *Israel Science Foundation* (Israel):
Referee for ISF grant application in 2008

Funding acquisition

As principal investigator or main contact

- *DFG project Kontrollwissen für domänenunabhängige Planungssysteme* (“control knowledge for domain-independent planning systems”):
Grant of 180 000 EUR awarded 6/2010 by the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)
- *Marie Curie International Outgoing Fellowship:*
Grant of 240 000 EUR awarded 12/2009 by the European Commission for project *Abstraction Heuristics for Planning and Combinatorial Search (AHPACS)*
- *Sommercampus:*
Awarded with the 40 000 EUR *Lehrpreis des Landes Baden-Württemberg* (state teaching award) in 2006

As proposal contributor

- *Transregional Collaborative Research Center 14 AVACS (SFB TR 14)*, second funding period (2008–2011):
Contributed to the proposal to the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG).
- *Transregional Collaborative Research Center 14 AVACS (SFB TR 14)*, first funding period (2004–2007):
Contributed to the proposal to the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG).

Referees

- Prof. Dr. Maria Fox.
Professor, University of Strathclyde, Glasgow, United Kingdom.

`maria.fox@cis.strath.ac.uk`

- Prof. Dr. Héctor Geffner.
Professor, Universitat Pompeu Fabra, Barcelona, Spain.
`hector.geffner@upf.edu`
- Prof. Dr. Subbarao Kambhampati.
Professor, Arizona State University, Tempe, Arizona, USA.
`rao@asu.edu`
- Prof. Dr. Bernhard Nebel.
Professor, Albert-Ludwigs-Universität Freiburg, Germany.
`nebel@informatik.uni-freiburg.de`
- Prof. Dr. Sylvie Thiébaux.
Professor, Australian National University and NICTA, Canberra, Australia.
`sylvie.thiebaux@anu.edu.au`