

## Paolo Traverso – publication list

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### Text Book

1. M. Ghallab, D. Nau, P. Traverso. *AUTOMATED PLANNING AND ACTING*. Cambridge University Press, August 2016. ISBN: 9781107037274.
2. M. Ghallab, D.S. Nau, P. Traverso: *AUTOMATED PLANNING - THEORY AND PRACTICE*. Elsevier 2004, ISBN-13: 978-1-55860-856-6, ISBN-10: 1-55860-856-7, pp. I-XXVIII, 1-635

### Book Chapters

3. M. Pistore, P. Traverso, M. Paolucci, M. Wagner, *From Software Services to a Future Internet of Services*. In G. Tselentis, et al (eds.), *Towards the Future Internet - A European Research perspective*, IOS Press, 2009, pp. 183-192
4. A. Cimatti, M. Pistore, P. Traverso, *Automated Planning*. In F. van Harmelen, V. Lifschitz, B. Porter (eds.), *Handbook of Knowledge Representation*, Elsevier, 2008, pp. 841-867
5. M. Pistore, P. Traverso, *Assumption Based Composition and Monitoring of Web Services*. In L. Baresi, E. DiNitto (eds.), *Test and Analysis of Service-Oriented Systems*, Springer, 2007, pp. 307-338
6. P. Traverso, *Planning Under Uncertainty and Its Applications*. In Oliviero Stock, Marco Schaerf (eds.), *Reasoning, Action and Interaction in AI Theories and Systems. Essays Dedicated to Luigia Carlucci Aiello*, (Lecture Notes in Computer Science - Lecture Notes in Artificial Intelligence), Springer, 2006, pp. 213-228
7. P. Traverso, *The Problem of Planning with Three Sources of Uncertainty*. In G. Della Riccia, D. Dubois, R. Kruse, H.J. Lenz (eds.), *Planning Based on Decision Theory*, (CISM International Centre for Mechanical Sciences), Springer, 2003
8. P. Bertoli, P. Traverso, *Design Verification of a Safety-Critical Embedded Verifier*. In M. Kaufmann, Mandios Panagiotis, J. Strother Moore (eds.), *Computer-Aided Reasoning: ACL2 Case Studies*, Kluwer, 2000, pp. 233-245
9. P. Traverso, *Formalizing Complex Reasoning*, *Encyclopedia of Microcomputers*, New York, Marcel Dekker, Inc., 1999, pp. 171-188
10. F. Giunchiglia, P. Traverso, *A System for Multi-Level Mathematical Reasoning*. In J. Johnson, S. McKee, A. Vella (eds.), *Artificial Intelligence in Mathematics*, Oxford, Clarendon Press, 1994, pp. 119-134

### Editing of International Conference Proceedings

11. Tim A. Majchrzak, Paolo Traverso, Karl-Heinz Krempels, Valérie Monfort (eds.), *Web Information Systems and Technologies - 13th International Conference, WEBIST 2017*. Porto, Portugal, April 25–27, 2017, Revised Selected Papers. Springer, LNBI 322, 2018.
12. T.A. Majchrzak, P. Traverso, V. Monfort, K.H. Krempels (eds.), *WEBIST 2016 Proceedings of the 12th International Conference on Web Information Systems and Technologies*. ISBN: 978-989-758-186-1, SCITEPRESS 2016.
13. E. Di Nitto, A.M. Sassen, P. Traverso, A. Zwegers (eds.), *At Your Service: Service-Oriented Computing from an EU Perspective*, (Cooperative Information Systems), MIT Press, 2009
14. J. Domingue, D. Fensel, P. Traverso (eds.), *Future Internet - FIS 2008, First Future Internet Symposium, FIS 2008, Vienna, Austria, September 29-30, 2008, Revised Selected Papers*, (Lecture Notes in Computer Science), Springer, 2009
15. L. Aroyo, P. Traverso, F. Ciravegna, P. Cimiano, T. Heath, E. Hyvönen, R. Mizoguchi, E. Oren, M. Sabou, E. Paslaru Bontas Simperl (eds.), *The Semantic Web: Research and Applications, 6th European Semantic Web Conference, ESWC 2009*, Springer, 2009

16. D. Dochev, M. Pistore, P. Traverso (eds.), *Artificial Intelligence: Methodology, Systems, and Applications. 13th International Conference, AIMSA 2008, Proceedings*, (LNCS), Springer Verlag, 2008
17. G. Brewka, S. Coradeschi, A. Perini, P. Traverso (eds.), *ECAI 2006 - 17th European Conference on Artificial Intelligence. August 29 - September 1, 2006 - Riva del Garda, Italy. Proceedings*, Amsterdam, IOS Press, 2006
18. B. Benatallah, F. Casati, P. Traverso (eds.), *Service-Oriented Computing – ICSOC 2005. Proceedings of the Third International Conference, Amsterdam, The Netherlands, December 12-15, 2005*, (Lecture Notes in Computer Science), Springer, 2005
19. M. Ghallab, J. Hertzberg, P. Traverso (eds.), *Proceedings of the Sixth International Conference on Artificial Intelligence Planning and Scheduling (AIPS 2002)*, AAAI Press, 2002
20. P. Traverso, F. Giunchiglia, M. Veloso, *AIPS2000 Workshop on Model-Theoretic Approaches to Planning, Beckerdige, Colorado, USA, April 14, 2000*.
21. D. Hutter, W. Stephan, P. Traverso, M. Ullmann, *Applied Formal Methods - FM-Trends 98*, (Lecture Notes in Computer Science), Springer, 1999
22. D. Hutter, W. Stephan, P. Traverso, M. Ullmann, *Applied Formal Methods - FM-Trends 98. International Workshop on Current Trends in Applied Formal Methods, Boppard, Germany, October 7-9, 1998 (Proceedings)*, (Lecture Notes in Computer Science), Springer

## International Journals

23. S. Patra, M. Ghallab, D.S. Nau, and P. Traverso, *Using Operational Models to Integrate Acting and Planning*. «ADVANCES IN COGNITIVE SYSTEMS», ISSN 2324-8416, to appear.
24. M. Ghallab, D.S. Nau, P. Traverso, *The actor's view of automated planning and acting: A position paper*. In «ARTIFICIAL INTELLIGENCE», vol. 208, March 2014, pp. 1-17.
25. P. Bertoli, M. Pistore, P. Traverso, *Automated composition of web services via planning in asynchronous domains*. In «ARTIFICIAL INTELLIGENCE», vol. 174, n. 3-4, 2010, pp. 316-361
26. U. Kuter, D.S. Nau, M. Pistore, P. Traverso, *Task decomposition on abstract states, for planning under nondeterminism*. In «ARTIFICIAL INTELLIGENCE», vol. 173, 2009, pp. 669-695
27. A. Marconi, M. Pistore, P. Traverso, *Automated Composition of Web Services: the ASTRO Approach*. In IEEE Data(base) Engineering Bulletin, IEEE, 2008, pp. 23-26
28. M.P. Papazoglou, P. Traverso, S. Dustdar, F. Leymann, *Service-Oriented Computing: State of the Art and Research Challenges*. In «COMPUTER», vol. 40, n. 11, 2007, pp. 38-45
29. A. Marconi, M. Pistore, P. Traverso, *Process-level Composition of Web Services: a Semi-Automated Iterative Approach*. In «ANNALS OF MATHEMATICS COMPUTING TELEINFORMATICS», vol. 1, n. 5, 2007, pp. 11-25
30. M.P. Papazoglou, P. Traverso, S. Dustdar, F. Leymann, *Service-Oriented Computing: A Research Roadmap*, in «INTERNATIONAL JOURNAL OF COOPERATIVE INFORMATION SYSTEMS», vol. 17, n. 2, 2008, pp. 223-255
31. P. Bertoli, A. Cimatti, M. Roveri, P. Traverso, *Strong Planning under Partial Observability*. In «ARTIFICIAL INTELLIGENCE», vol. 170, n. 4-5, 2006, pp. 337-384
32. A. Fuxman, L. Liu, J. Mylopoulos, M. Pistore, M. Roveri, P. Traverso, *Specifying and Analyzing Early Requirements in Tropos*. In «REQUIREMENTS ENGINEERING», vol. 9, n. 2, 2004, pp. 132-150
33. A. Cimatti, M. Pistore, M. Roveri, P. Traverso, *Weak, Strong, and Strong Cyclic Planning via Symbolic Model Checking*. In «ARTIFICIAL INTELLIGENCE», vol. 147, n. 1-2, 2003
34. M. Bonifacio, P. Bouquet, P. Traverso, *Enabling Distributed Knowledge Management: Managerial and Technological Implications*. In «INFORMATIK», vol. III, n. 1, 2002
35. F. Giunchiglia, P. Traverso, *Theorem Proving in Technology Transfer: the user's point of view*. In «INTERNATIONAL JOURNAL ON SOFTWARE TOOLS FOR TECHNOLOGY TRANSFER», vol. 3, n. 1, 2000, pp. 1-12
36. L. Spalazzi, P. Traverso, *A Dynamic Logic for Acting, Sensing and Planning*. In «JOURNAL OF LOGIC AND COMPUTATION», vol. 10, n. 6, 2000, pp. 787-821
37. P. Traverso, P. Bertoli, *Mechanized Result Verification: an Industrial Application*. In «INTERNATIONAL JOURNAL ON SOFTWARE TOOLS FOR TECHNOLOGY TRANSFER», vol. 3, n. 1, 2000, pp. 78-92

38. A. Cimatti, F. Giunchiglia, G. Mongardi, D. Romano, F. Torielli, P. Traverso, *Formal Verification of a Railway Interlocking System Using Model Checking*. In «FORMAL ASPECTS OF COMPUTING», 1998, pp. 361-380
39. F. Giunchiglia, P. Traverso, *Program Tactics and Logic Tactics*. In «ANNALS OF MATHEMATICS AND OF ARTIFICIAL INTELLIGENCE», vol. 17, n. 3-4, 1996, pp. 235-259
40. A. Cimatti, P. Traverso, *Computational Reflection via Mechanized Logical Deduction*. In «INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS», vol. 11, n. 5, 1996, pp. 279-293
41. E. Giunchiglia, A. Armando, P. Traverso, A. Cimatti, *Visual Representation of Natural Language Scene Descriptions*. In «IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART A-SYSTEMS AND HUMANS», vol. 26, n. 8, 1996, pp. 279-293
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## International Conference Proceedings

47. A. Bucchiarone, M. De Sanctis A. Marconi, M. Pistore, P. Traverso, *Incremental Composition for Adaptive by-Design Service Based Systems*. In Proceedings of the 23<sup>rd</sup> IEEE International Conference on Web Services (IEEE ICWS 2016). San Francisco (USA), July 2016.
48. P. Traverso, *20 Years of Planning via Model Checking: From Theory to Practice*. Keynote/Abstract in Proceedings of the 2<sup>nd</sup> Workshop on Model checking and Automated Planning (MOCHAP-15), p. 5. Jerusalem (Israel), June 2015.
49. P. Traverso, D.S. Nau, M. Ghallab, *An IPC Track on Deliberative Acting: Moving the competition ahead towards more relevant scientific challenges*. In Proceedings of the Workshop on the International Planning Competition (WIPC-15), pp. 29-34. Jerusalem (Israel), June 2015.
50. M. Gerosa, A. Marconi, M. Pistore, P. Traverso, *An open platform for children's independent mobility*. In Proceedings of the 4th International Conference on Smart Cities, Green Technologies, and Intelligent Transport Systems, SMARTGREENS 2015; Lisbon; Portugal; May 2015, Volume 579, 2015, Pages 50-71.
51. D.S. Nau, M. Ghallab, P. Traverso, *Blended Planning and Acting: Preliminary Approach, Research Challenges*. In Proceedings Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI-15), vol. 6, p. 4047-4051, ISBN: 978-157735704-9. Austin (Texas, USA), January 2015, AAAI Press.
52. A. Bucchiarone, M. De Sanctis, A. Marconi, M. Pistore, P. Traverso, *Design for Adaptation of Distributed Service-Based Systems*. In: International Conference on Service Oriented Computing (ICSOC). vol. 9435, Springer International Publishing, Goa, India, 16-19/11/2015, doi: 10.1007/978-3-662-48616-0 27
53. A. Bucchiarone, A. Marconi, M. Pistore, P. Traverso, P. Bertoli, R. Kashamiakin, *Domain Objects for Continuous Context-Aware Adaptation of Service-based Systems*. In Proceedings ICWS 2013 – 20<sup>th</sup> International Conference on Web Services. Santa Clara, CA (USA), 2013, IEEE Press, pp 571-578.
54. A. Cimatti, F. Giunchiglia, E. Giunchiglia, and P. Traverso, "Planning via Model Checking: A Decision Procedure for AR". Paper selected as the "*Most Influential Paper*" awarded at [ICAPS 2008 - Eighteenth International Conference on Automated Planning and Scheduling](#). Sydney, Australia, September 14-18, 2008.
55. D. Shaparau, M. Pistore, P. Traverso, *Fusing Procedural and Declarative Planning Goals for Nondeterministic Domains*. In Dieter Fox, Carla P. Gomes, AAAI-08, Proceedings of the Twenty-Third AAAI Conference on Artificial Intelligence, AAAI Press, 2008, pp. 983-990 (Chicago, USA) 2008
56. A. Marconi, M. Pistore, P. Poccianti, P. Traverso, *Automated Web Service Composition at Work: the Amazon/MPS Case Study*. In ICWS, 2007 IEEE International Conference on Web Services, IEEE, 2007, pp. 767-774 (Salt Lake City, USA) 2007

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58. A. Marconi, M. Pistore, P. Traverso, *An Iterative Approach for the Process-level Composition of Web Services*. In 3rd South-East European Workshop on Formal Methods - SEEFM07, 2007, pp. 36-50 (Thessaloniki, Greece)
59. P. Traverso, M. Pistore, *Agree or Change! Making Services Evolve*. In Proceedings of the 23rd IEEE International Conference on Software Maintenance (ICSM 2007), Paris, France, 2007
60. D. Sharparau, M. Pistore, P. Traverso, *Contingent Planning with Goal Preferences*. In AAAI-06, Proceedings of the Twenty-First AAAI Conference on Artificial Intelligence, AAAI Press, 2006, pp. 927-935 (AAAI-06, Proceedings of the Twenty-First AAAI Conference on Artificial Intelligence, Boston, USA) 2006
61. M. Pistore, L. Spalazzi, P. Traverso, *A Minimalist Approach to Semantic Annotations for Web Processes Compositions*. In York Sure, John Domingue, The Semantic Web: Research and Applications. 3rd European Semantic Web Conference (ESWC 2006), Proceedings, Springer, 2006, pp. 620-634 (The Semantic Web: Research and Applications. 3rd European Semantic Web Conference (ESWC 2006), Proceedings, Budva, Montenegro) 2006
62. A. Marconi, M. Pistore, P. Traverso, *Implicit vs. Explicit Data-Flow Requirements in Web Service Composition Goals*. In Service-Oriented Computing - ICSOC 2006, 4th International Conference, Proceedings, Springer, vol. 4294, 2006, pp. 459-464 (Service-Oriented Computing - ICSOC 2006, 4th International Conference, Proceedings, Chicago, IL, USA) 2006
63. F. Barbon, P. Traverso, M. Pistore, M. Trainotti, *Run-Time Monitoring of Instances and Classes of Web Service Composition*. In ICWS, 2006 IEEE International Conference on Web Services, IEEE, 2006, pp. 63-71 (ICWS, 2006 IEEE International Conference on Web Services, Chicago, IL, USA) 2006
64. F. Barbon, M. Pistore, P. Traverso, M. Trainotti, *Run-Time Monitoring of the Execution of Plans for Web Service Composition*. In ICAPS 2006, Proceedings of the Sixteenth International Conference on Automated Planning and Scheduling, AAAI Press, 2006, pp. 346-349 (ICAPS 2006, Proceedings of the Sixteenth International Conference on Automated Planning and Scheduling, The English Lake District, UK) 2006
65. P. Bertoli, M. Pistore, P. Traverso, *Automated Web Service Composition by On-The-Fly Belief Space Search*. In ICAPS 2006, Proceedings of the Sixteenth International Conference on Automated Planning and Scheduling, AAAI Press, 2006, pp. 358-361 (ICAPS 2006, Proceedings of the Sixteenth International Conference on Automated Planning and Scheduling, The English Lake District, UK) 2006
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  79. P. Bertoli, A. Cimatti, P. Traverso, *Interleaving Execution and Planning for Nondeterministic, Partially Observable Domains*. In Ramon López de Mántaras and Lorenza Saitta (eds.), Proceedings of 16th European Conference on Artificial Intelligence, 2004, pp. 657-661 (ECAI'2004, Valencia, Spain), IOS Press
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  85. P. Bertoli, A. Cimatti, M. Pistore, P. Traverso, *Plan Validation for Extended Goals under Partial Observability (preliminary report)*. In Electronic Proceedings of AIPS'02 Workshop on Planning via Model Checking, 2002
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