

Paolo Traverso – publication list (updated August 2021)

Text Books

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. Chinese translation by Yunfei Jiang at Zhongshan. University in Guangzhou, China.

Book Chapters

3. Fosca Giannotti, Stefano Merler, Dino Pedreschi, Paolo Traverso: *I.A. e i big data sanitari – rilevazione degli esordi e diffusione dell'epidemia*. In A. Pajno and L. Violante (eds), "BIOPOLITICA, PANDEMIA E DEMOCRAZIA, Rule of law nella società digitale– Vol. III". Il Mulino, ISBN 9788815292797, 2021.
4. A. Dengel, O. Etzioni, N. DeCario, H. Hoos, Fei-Fei Li, J. Tsujii, P. Traverso. *Next big challenges in core AI technology*. In B. Braunschweig and M. Ghallab (eds.), *Reflections on Artificial Intelligence for Humanity*. Springer, LNCS 12600, pp 90-115, 2021.
5. S. Battisti, E. Giugliani, R. Prikładnicki, P. Traverso. *Entrepreneurial actions towards the success of esponential technologies*. In J.J. Ferreira, A. Fayolle, V. Ratten, M. Raposo (eds.), *Entrepreneurial Universities – Collaboration, Education and Policies*. Edwrd Elgar Publishing, 2018, pp. 248-262.
6. M. Pistore, P. Traverso, M. Paolucci, M. Wagner, *From Software Services to a Future Internet of Services*. In G. Tselentis, al et (eds.), *Towards the Future Internet - A European Research perspective*, IOS Press, 2009, pp. 183-192
7. 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
8. 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
9. 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
10. 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
11. 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
12. P. Traverso, *Formalizing Complex Reasoning*, *Encyclopedia of Microcomputers*, New York, Marcel Dekker, Inc., 1999, pp. 171-188
13. 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

14. Chiara Ghidini, Bernardo Magnini, Andrea Passerini, Paolo Traverso (eds.), *AI*IA 2018 - Advances in Artificial Intelligence - XVIIth International Conference of the Italian Association for Artificial Intelligence*. Trento, Italy, November 20-23, 2018, Proceedings. Lecture Notes in Computer Science 11298, Springer 2018, ISBN 978-3-030-03839-7
15. Tim A. Majchrzak, Paolo Traverso, Karl-Heinz Krempels, Valérie Monfort (eds.), *Web Information Systems and Technologies - 13th International Conference, WEBIST 2017, Revised Selected Papers*. Porto, Portugal, April 25–27, 2017, Revised Selected Papers. Springer, LNBIP 322, 2018. ISBN 978-3-319-93527-0

16. 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.
17. 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
18. 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
19. 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
20. D. Dochev, M. Pistore, P. Traverso (eds.), *Artificial Intelligence: Methodology, Systems, and Applications. 13th International Conference, AIMSA 2008, Proceedings*, (LNCS), Springer Verlag, 2008
21. 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
22. 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
23. M. Ghallab, J. Hertzberg, P. Traverso (eds.), *Proceedings of the Sixth International Conference on Artificial Intelligence Planning and Scheduling (AIPS 2002)*, AAAI Press, 2002
24. P. Traverso, F. Giunchiglia, M. Veloso, *AIPS2000 Workshop on Model-Theoretic Approaches to Planning*, Beckerdige, Colorado, USA, April 14, 2000.
25. D. Hutter, W. Stephan, P. Traverso, M. Ullmann, *Applied Formal Methods - FM-Trends 98*, (Lecture Notes in Computer Science), Springer, 1999
26. 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

27. S. Patra, M. Ghallab, J.M. Mason, D. Nau, P. Traverso, *Deliberative Acting, Online Planning and Learning with Hierarchical Operational Models*. In «ARTIFICIAL INTELLIGENCE», Volume 299, 103523, Elsevier, October 2021.
28. S. Patra, M. Ghallab, D. Nau, P. Traverso, *APE: An Acting and Planning Engine*. In «ADVANCES IN COGNITIVE SYSTEMS», vol. 7, December 2019, pp. 175-194.
29. 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.
30. 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
31. 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
32. 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
33. 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
34. 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
35. 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
36. 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

37. 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
38. 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
39. M. Bonifacio, P. Bouquet, P. Traverso, *Enabling Distributed Knowledge Management: Managerial and Technological Implications*. In «INFORMATIK», vol. III, n. 1, 2002
40. 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
41. 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
42. 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
43. 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
44. 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
45. A. Cimatti, P. Traverso, *Computational Reflection via Mechanized Logical Deduction*. In «INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS», vol. 11, n. 5, 1996, pp. 279-293
46. 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
47. F. Giunchiglia, P. Traverso, *A Metatheory of a Mechanized Object Theory*. In «ARTIFICIAL INTELLIGENCE», vol. 80, n. 2, 1996, pp. 197-241
48. A. Armando, A. Cimatti, E. Giunchiglia, P. Pecchiari, L. Spalazzi, P. Traverso, *Flexible Planning by Integrating Multilevel Reasoning*. In «ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE», vol. 4, 1995, pp. 401-412
49. E. Giunchiglia, P. Traverso, *A Multi-Context Architecture for Formalizing Complex Reasoning*. In «INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS», vol. 10, n. 5, 1995, pp. 501-539
50. P. Traverso, A. Cimatti, L. Spalazzi, E. Giunchiglia, A. Armando, *MRG: Building planners for real world complex applications*. In «APPLIED ARTIFICIAL INTELLIGENCE», vol. 8, 1994, pp. 333-357
51. F. Giunchiglia, C. Ferrari, P. Traverso, E. Trucco, *Understanding scene descriptions by integrating different sources of knowledge*. In «INTERNATIONAL JOURNAL OF HUMAN-COMPUTER STUDIES», vol. 37, 1992, pp. 47-81

International Conference Proceedings

52. S. Patra, J. Mason, M. Ghallab, P. Traverso and Da. Nau. *A Demonstration of Refinement Acting, Planning and Learning System Using Operational Models*. Demo session at ICAPS 2021, International Conference on Automated Planning and Scheduling, August 2021.
53. L. Lamanna, A. Saetti, L. Serafini, A. Gerevini and P. Traverso, *Online Learning of Action Models for PDDL Planning*. In Proceedings KEPS 2021 – Workshop on Knowledge Engineering for Planning and Scheduling, August 2021.
54. L. Lamanna, L. Serafini, P. Traverso, A. Gerevini, A. Saetti, *Online Learning of Action Models for PDDL Planning*. In Proceedings IJCAI-21 - 30th International Joint Conference on Artificial Intelligence., August 2021.
55. S. Patra, P. Traverso, M. Ghallab, D. Nau, *Coordination and Control of Hierarchically Organized Interacting Agents*. In Proceedings of FLAIRS-34, 34th Conference of the Florida Artificial Intelligence Research Society. Florida Online Journals, Vol 34 No 1 (2021).
56. L. Lamanna, L. Serafini, P. Traverso, A. Gerevini, A. Saetti, *On-line Learning of Planning Domains from Sensor Data in PAL: Scaling up to Large State Spaces*. In Proceedings of the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21), pp. 11862-11869, AAAI Press, 2021.

57. S. Patra, J. Mason, A. Kumar, M. Ghallab, P. Traverso and D. Nau, *Integrating Acting, Planning, and Learning in Hierarchical Operational Models*. In the proceedings of the 30th International Conference on Automated Planning and Scheduling (ICAPS 2020), October 2020. *ICAPS-2020 Outstanding Student Paper Award Honorable Mention*.
58. Patra S., Ghallab M., Nau D., Traverso P., *Acting and Planning Using Operational Models*. In proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-19). January 27-February 1, 2019, Honolulu (Hawaii, USA).
59. Patra S., Ghallab M., Nau D., Traverso P., *Using Operational Models to Integrate Acting and Planning*. In proceedings of the Sixth Annual Conference on Advances in Cognitive Systems. August 18-20, 2018, Stanford University (CA, USA).
60. Traverso P., Serafini L., *Where am I? Let me learn from the real world!*. KR 2018 Workshop on Reasoning about Actions and Processes: Highlights of Recent Advances. Tempe (Arizona, USA) 28-29 October 2018.
61. A. Bucchiarone, M. De Sanctis A. Marconi, M. Pistore, P. Traverso, *Incremental Composition for Adaptive by-Design Service Based Systems*. In Proceedings of the 23rd IEEE International Conference on Web Services (IEEE ICWS 2016). San Francisco (USA), July 2016.
62. P. Traverso, *20 Years of Planning via Model Checking: From Theory to Practice*. Keynote/Abstract in Proceedings of the 2nd Workshop on Model checking and Automated Planning (MOCHAP-15), p. 5. Jerusalem (Israel), June 2015.
63. 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.
64. 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.
65. Paolo Traverso, *Change Alone is Unchanging - Continuous Context-aware Adaptation of Service-based Systems for Smart Cities and Communities*. CLOSER 2015: IS-7
66. 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.
67. 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
68. A. Bucchiarone, A. Marconi, M. Pistore, P. Traverso, P. Bertoli, R. Kazhamiakin, *Domain Objects for Continuous Context-Aware Adaptation of Service-based Systems*. In Proceedings ICWS 2013 – 20th International Conference on Web Services. Santa Clara, CA (USA), 2013, IEEE Press, pp 571-578.
69. 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.
70. 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
71. A. Marconi, M. Pistore, P. Pocchianti, 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
72. J. Koehler, M. Pistore, A.P. Sheth, P. Traverso, Martin Wirsig, *Autonomous and Adaptive Web Services*. In Internationales Begegnungs- und Forschungszentrum fuer Informatik (IBFI), Dagstuhl Seminar Proceedings 07061, 2007, (Schloss Dagstuhl, Germany)
73. 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)
74. 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
75. 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
76. 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
77. 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
 78. 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
 79. 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
 80. 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
 81. M. Trainotti, M. Pistore, F. Barbon, P. Bertoli, A. Marconi, P. Traverso, G. Zacco, *ASTRO: Supporting Web Service Development by Automated Composition, Monitoring and Verification*. In ICAPS 2006 Software Demonstrations - Proceedings, 2006, pp. 28-31 (ICAPS 2006 Software Demonstrations - Proceedings, The English Lake District, UK) 2006
 82. A. Marconi, M. Pistore, P. Traverso, *Specifying Data-Flow Requirements for the Automated Composition of Web Services*. In 4th IEEE International Conference on Software Engineering and Formal Methods (SEFM06), IEEE, 2006, pp. 147-156 (4th IEEE International Conference on Software Engineering and Formal Methods (SEFM06), Pune, India)
 83. M. Pistore, P. Traverso, P. Bertoli, A. Marconi, *Automated Synthesis of Executable Web Service Compositions from BPEL4WS Processes*. In 14th International World Wide Web Conference [WWW2005, ACM, 2005, pp. 1186-1187 (WWW2005, Chiba, Japan, 2005)
 84. M. Pistore, P. Traverso, P. Bertoli, *Automated Composition of Web Services by Planning in Asynchronous Domains*. In 15th International Conference on Automated Planning and Scheduling (ICAPS-05), AAAI Press, 2005, (ICAPS-05, Monterey, California, USA, 2005). *Honorable Mention* for the ICAPS Influential Paper Award 2017 (27th International Conference on Automated Planning and Scheduling, Pittsburgh, June 2017).
 85. M. Pistore, A. Marconi, P. Bertoli, P. Traverso, *Automated Composition of Web Services by Planning at the Knowledge Level*. In 19th International Joint Conference on Artificial Intelligence, Morgan Kaufmann, 2005, (IJCAI 2005, Edinburgh, United Kingdom)
 86. M. Pistore, P. Traverso, P. Bertoli, A. Marconi, *Automated Synthesis of Composite BPEL4WS Web Services*. In IEEE International Conference on Web Services, IEEE Computer Society, 2005, (Orlando, Florida, USA)
 87. M. Pistore, P. Roberti, P. Traverso, *Process-Level composition of executable Web services: `on-the-fly` versus `once-for-all` composition*. In 2nd European Semantic Web Conference (ESWC-05), Springer, LNCS, vol. 3532, 2005
 88. U. Kuter, D. Nau, M. Pistore, P. Traverso, *A Hierarchical Task-Network Planner Based on Symbolic Model Checking*. In Susanne Biundo, Karen Myers, Kanna Rajan, 15th International Conference on Automated Planning and Scheduling (ICAPS-05), AAAI Press, 2005, pp. 300-309 (ICAPS-05, Monterey, California, USA)
 89. M. Trainotti, M. Pistore, G. Calabrese, G. Zacco, P. Lucchese, F. Barbon, P. Bertoli, P. Traverso, *ASTRO: Supporting the Composition and Execution of Web Services*. In Service-Oriented Computing - ICSOC 2005, 3rd International Conference, Proceedings, Springer, vol. 3826, 2005, pp. 495-501 (Service-Oriented Computing - ICSOC 2005, Amsterdam, The Netherlands)
 90. M. P. Papazoglou, P. Traverso, S. Dustdar, F. Leymann, B. Kramer, *Service Oriented Computing: A Research Roadmap*. In F. Cubera, B. J. Krämer, Mike P. Papazoglou, Service Oriented Computing (SOC): Dagstuhl Seminar 05462, DROPS - Dagstuhl Research Online Publication Serve, 2005, (Schloss Dagstuhl, Germany)
 91. M. Pistore, F. Barbon, P. Bertoli, D. Sharparau, P. Traverso, *Planning and Monitoring Web Service Composition*. In Artificial Intelligence: Methodology, Systems, and Applications, Proceedings of the 11th International Conference (AIMSA 2004), vol. 3192, 2004, pp. 106-119
 92. P. Traverso, M. Pistore, *Automated Composition of Semantic Web Services into Executable Processes*. In Third International Semantics Web Conference (ISWC-04), Springer, vol. 3298, 2004, pp. 380-394, LNCS (ISWC-04, Hiroshima, Japan)

93. P. Traverso, M. Pistore, M. Roveri, A. Marconi, R. Kazhamiakin, P. Lucchese, P. Busetta, P. Bertoli, *Towards a Framework for Supporting Negotiation between Global and Local Business Requirements*. In ACM, Proceedings of 2nd Int. Conference on Service-Oriented Computing, 2004, pp. 56-65 (ICSOC, New York City, NY, USA)
94. 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
95. M. Pistore, P. Bertoli, E. Cusenza, A. Marconi, P. Traverso, *WS-GEN: A Tool for the Automated Composition of Semantic Web Services*. In Third International Semantic Web Conference [ISWC 2004]: Demo Papers, 2004
96. P. Bertoli, A. Cimatti, M. Pistore, P. Traverso, *A Framework for Planning with Extended Goals under Partial Observability*. In E. Giunchiglia, Nicola Muscettola, Dana Nau (eds.), Proceedings of ICAPS'03 - 13th International Conference on Automated Planning and Scheduling, AAAI, 2003, pp. 215-225 (ICAPS'03, Trento, Italy)
97. P. Bertoli, A. Cimatti, P. Traverso, *Interleaving Execution and Planning via Symbolic Model Checking*. In ICAPS'03 Workshop on Planning under Uncertainty and Incomplete Information, AAAI, 2003, pp. 1-7 (ICAPS'03, Trento, Italy)
98. P. Bertoli, A. Cimatti, M. Pistore, M. Roveri, P. Traverso, *MBP: A Model Based Planner*. In ICAPS'03: system demo session, 2003
99. U. Dal Lago, M. Pistore, P. Traverso, *Planning with a Language for Extended Goals*. In Eighteenth National Conference on Artificial Intelligence, AAAI Press, 2002, pp. 447-454
100. 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
101. M. Aiello, Mike P. Papazoglou, J. Yang, M.J. Carman, M. Pistore, L. Serafini, P. Traverso, *A Request Language for Web-Services Based on Planning and Constraint Satisfaction*. In A. Buchmann, F. Casati, L. Fiege, M. Hsu, M. Shan, Technologies for E-Services, Third International Workshop, TES 2002, Proceedings, Springer, vol. 2444, 2002, pp. 76-85, Hong Kong, China
102. M., P. Traverso, *Planning as Model Checking for Extended Goals in Non-deterministic Domains*. In Seventeenth International Joint Conference on Artificial Intelligence, AAAI Press, vol. 1, 2001, pp. 479-484 (Seattle, Washington, USA)
103. A. Fuxman, M. Pistore, J. Mylopoulos, P. Traverso, *Model Checking Early Requirements Specifications in Tropos*. In Fifth IEEE International Symposium on Requirements Engineering [RE'01], 2001. Honorable mention as MOST INFLUENTIAL PAPER at the 19th IEEE International Requirements Engineering Conference (2011).
104. M. Pistore, R. Bettin, P. Traverso, *Symbolic techniques for planning with extended goals in non-deterministic domains*. In Sixth European Conference on Planning [ECP-01], Springer, 2001, pp. 253-264
105. P. Bertoli, A. Cimatti, M. Roveri, P. Traverso, *Planning in Nondeterministic Domains under Partial Observability via Symbolic Model Checking*. In Seventeenth International Joint Conference on Artificial Intelligence, AAAI Press, 2001, pp. 473-478 (Seattle, Washington, USA)
106. L. Carlucci Aiello, A. Cesta, E. Giunchiglia, M. Pistore, P. Traverso, *Planning and Verification techniques for the High Level Programming and Monitoring of Autonomous Robotic Devices*. In ESA Workshop On Board Autonomy, 2001, pp. 331-338
107. P. Bertoli, A. Cimatti, M. Pistore, M. Roveri, P. Traverso, *MBP: a Model Based Planner*. In IJCAI-2001 Workshop on Planning under Uncertainty and Incomplete Information (PRO-2), 2001, (Seattle, Washington, USA)
108. P. Bertoli, A. Cimatti, M. Roveri, P. Traverso, *Planning in Nondeterministic Domains under Partial Observability via Symbolic Model Checking*. In Seventeenth International Joint Conference on Artificial Intelligence (IJCAI-01), Proceedings, Morgan Kaufmann, 2001, pp. 473-478 (Seattle, Washington, USA)
109. L. Carlucci Aiello, A. Cesta, E. Giunchiglia, P. Traverso, *Merging Planning and Verification Techniques for 'Safe Planning' in Space Robotics*. In i-SAIRAS: International Symposium on Artificial Intelligence, Robotics and Automation in Space: A New Space Odyssey, 2001, (Montreal, Canada)
110. P. Bertoli, A. Cimatti, P. Traverso, *Integrating Formal Methods into the Development Cycle of a Safety-critical Embedded Software System*. In 5th International Workshop on Formal Methods for Industrial Critical Systems [FMICS], 2000, (Berlin, Germany)
111. F. Giunchiglia, P. Traverso, *Planning as Model Checking*. In Susanne Biundo, Maria Fox (eds.), Fifth European Conference on Planning [ECP'99], Springer, vol. 1809, 2000, pp. 1-20, LNCS (Durham, UK)
112. A. Cesta, E. Giunchiglia, P. Traverso, *Interactive Autonomy for Space Applications*. In 2nd International Workshop on Planning and Scheduling for Space (IWSS 2000), Moffett Field, NASA Conference Proceedings, vol. NASA/CP-2000-209590, 2000, (San Francisco, USA)

113. A. Cimatti, P.L. Pieraccini, R. Sebastiani, P. Traverso, A. Villafiorita, *Formal Specification and validation of a Vital Communication Protocol*. In M.J. Wing, J. Woodcock, J. Davies, FM'99-Formal Methods, World Congress on Formal methods in the Development of Computing Systems, 1999, pp. 1584-1604
114. A. Chiappini, A. Cimatti, C. Porzia, G. Rotondo, R. Sebastiani, P. Traverso, A. Villafiorita, *Formal Specification and Development of a Safety-Critical Train Management*. In 18th International Conference on Computer Safety, Reliability and Security (SAFECOMP 1999), Springer, vol. 1698, 1999, pp. 410-419 (Toulouse, France)
115. M. Daniele, P. Traverso, M.Y. Vardi, *Strong Cyclic Planning Revisited*. In Susanne Biundo, Maria Fox (eds.), Fifth European Conference on Planning [ECP'99], Springer, vol. 1809, 1999, pp. 35-48 (Durham, UK)
116. A. Cesta, P. Riccucci, M. Daniele, P. Traverso, E. Giunchiglia, M. Piaggio, M. Shaerf, *JERRY - A System for the Automatic Generation and Execution of Plans for Robotic Devices: The Case Study of the SPIDER Arm*. In Fifth International Symposium on Artificial Intelligence, Robotics and Automation in Space, 1999, pp. 687-692 (The Netherlands)
117. A.o Cimatti, F. Giunchiglia, P. Traverso, A. Villafiorita, *Run-Time Result Formal Verification of Safety Critical Software: an Industrial Case Study*. In FLoC'99 Workshop on Run-Time Result Verification, 1999, (Trento, Italy)
118. A. Cimatti, M. Roveri, P. Traverso, *Strong Planning in Non-Deterministic Domains via Model Checking*. In Fourth International Conference on Artificial Intelligence Planning Systems [AIPS-98], 1998, (Pittsburgh, USA)
119. A. Cimatti, M. Roveri, P. Traverso, *Automatic OBDD-based Generation of Universal Plans in Non-Deterministic Domains*. In Fifteenth National Conference on Artificial Intelligence [AAAI 98], AAAI Press, 1998, pp. 875-881 (Madison, USA)
120. P. Bertoli, A. Cimatti, F. Giunchiglia, P. Traverso, *A Structured Approach to the Formal Certification of Safety of Computer Aided Development Tools*. In 17th International Conference on Computer Safety, Reliability and Security [SAFECOMP '98], Springer, vol. 1516, 1998, pp. 221-230 (Heidelberg, Germany)
121. A. Cimatti, F. Giunchiglia, G. Mongardi, D. Romano, F. Torielli, P. Traverso, *Model Checking Safety Critical Software with SPIN: An Application to a Railway Interlocking System*. In 17th International Conference on Computer Safety, Reliability and Security [SAFECOMP '98], Springer, vol. 1516, 1998, pp. 284-295 (Heidelberg, Germany)
122. A. Cimatti, E. Giunchiglia, F. Giunchiglia, P. Traverso, *Planning via Model Checking: A Decision Procedure for AR*. In 4th European Conference on Planning [ECP 97], Springer, vol. 1348, 1997, pp. 130-142 (Toulouse, France)
123. A. Cimatti, F. Giunchiglia, P. Pecchiari, B. Pietra, J. Profeta, D. Romano, P. Traverso, B. Yu, *A Provably Correct Embedded Verifier for the Certification of Safety Critical Software*. In Computer Aided Verification - 9th International Conference (CAV 1997), Springer, vol. 1254, 1997, pp. 202-213 (Haifa, Israel)
124. A. Cimatti, F. Giunchiglia, G. Mongardi, D. Romano, F. Torielli, P. Traverso, *Model Checking Safety Critical Software with SPIN: An Application to a Railway Interlocking System*. In Third International SPIN Workshop [SPIN97], 1997
125. A. Cimatti, F. Giunchiglia, G. Mongardi, B. Pietra, D. Romano, F. Torielli, P. Traverso, *Formal Validation & Verification of Software for Railway Control and Protection Systems: Experimental Applications in ANSALDO*. In World Congress on Railway Research [WCRR'97], 1997, pp. 467-473 (Florence, Italy)
126. P. Traverso, E. Giunchiglia, L. Spalazzi, F. Giunchiglia, *Formal Theories for Reactive Planning Systems: Some Considerations Raised from an Experimental Application*. In AAAI 96 Workshop on 'Theories of Actions, Planning Algorithms and Control Architectures: Bridging the Gap', 1996, (Portland, USA), ISBN 978-1-57735-021-7, AAAI Press
127. P. Traverso, E. Giunchiglia, L. Spalazzi, F. Giunchiglia, *Formal Theories for Reactive Planning Systems: some considerations raised from an experimental application*. In AAAI-96 Workshop on Theories of Action and Planning: Bridging the Gap, AAAI Press, 1996, (Portland, Oregon, USA)
128. P. Traverso, L. Spalazzi, *A Logic for Acting, Sensing and Planning*. In Fifteenth International Joint Conference on Artificial Intelligence (IJCAI 1995), Morgan Kaufmann, 1995, pp. 1941-1947 (Montreal, Canada)
129. P. Traverso, L. Spalazzi, F. Giunchiglia, *Reasoning about Acting, Sensing and Failure Handling: A Logic for Agents Embedded in the Real World*. In Intelligent Agents II - Agent Theories, Architectures, and Languages (ATAL-95), Springer, vol. 1037, 1995, pp. 65-78 (Montreal, Canada)
130. P. Traverso, L. Spalazzi, F. Giunchiglia, *Reasoning About Acting, Sensing and Failure Handling: A Logic for Agents Embedded in the Real World*. In Intelligent Agents II - Agent Theories, Architectures, and Languages (ATAL-95), Springer, vol. 1037, 1995, pp. 65-78 (Montreal, Canada)
131. F. Giunchiglia, L. Spalazzi, P. Traverso, *Planning with Failure*. In Kristian Hammond, Second International Conference on AI Planning Systems (AIPS 94), AAAI Press, 1994, pp. 74-79 (Chicago, Illinois, USA)
132. F. Giunchiglia, P. Traverso, *Program Tactics and Logic Tactics*. In Logic Programming and Automated Reasoning, 5th International Conference (LPAR 1994), Springer, vol. 822, 1994, pp. 16-30 (Kiev, Ukraine)

133. F. Giunchiglia, A. Armando, A. Cimatti, P. Traverso, *First steps towards provably correct system synthesis of system code*. In CADE-12 Workshop on Correctness and Metatheoretic Extensibility of Automated Reasoning Systems, 1994, pp. 28-30 (Nancy, France)
134. M. Di Manzo, E. Giunchiglia, P. Traverso, *A three level architecture for the modular specification of knowledge and reasoning strategies*. In ECAI-94 Workshop on Formal Specification Methods for Knowledge-Based Systems, 1994, pp. 113-127 (Amsterdam, The Netherlands)
135. E. Giunchiglia, P. Traverso, F. Giunchiglia, *Multi-content systems as a specification framework for complex reasoning systems*. In Formal Specification of Complex Reasoning Systems, proceedings of ECAI-92 Workshop on Formal Specification Methods for Complex Reasoning Systems, Ellis Horwood, 1993, pp. 45-72 (Vienna, Austria, 1992)
136. P. Traverso, A. Cimatti, L. Spalazzi, *Beyond the single planning paradigm: introspective planning*. In Bernd Neumann (ed.), 10th European Conference on Artificial Intelligence (ECAI 1992), Wiley, 1992, pp. 643-647 (Vienna, Austria)
137. L. Spalazzi, A. Cimatti, P. Traverso, *Implementing planning as tactical reasoning*. In 3rd Annual Conference on Artificial Intelligence, Simulation & Planning in High Autonomy Systems (AIS '92), IEEE Computer Society, 1992, pp. 80-85 (Perth, Western Australia)
138. P. Traverso, A. Armando, E. Giunchiglia, *A knowledge based system for automatic 3D scene generation*. In Benedict du Boulay, Vasil Sgurev (eds.), Artificial Intelligence V, Methodology, Systems, Applications - Proceedings of the Fifth International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA '92), North-Holland, 1992, pp. 255-264 (Sofia, Bulgaria)
139. P. Traverso, A. Cimatti, L. Spalazzi, E. Giunchiglia, *Building planners with explicit control mechanism*. In 2nd International Symposium on Artificial Intelligence and Mathematics (ISAI 1992), AAAI Press, 1992, pp. 195-202 (Cancun, Mexico)
140. A. Armando, E. Giunchiglia, P. Traverso, *From Propositional Deciders to First Order Deciders: a Structured Approach to the Decision Problem*. In Kevin Ryan, Richard F.E. Sutcliffe, AI and Cognitive Science '92, Springer Verlag, 1992, pp. 295-298 (Limerick, Ireland)
141. A. Cimatti, P. Traverso, L. Spalazzi, *Programming Planners with Flexible Architectures*. In Kevin Ryan, Richard F.E. Sutcliffe, AI and Cognitive Science '92, Springer Verlag, 1992, pp. 311-314 (Limerick, Ireland)
142. A. Cimatti, P. Traverso, S. Dalbosco, A. Armando, *Navigation by Combining Reactivity and Planning*. In Intelligent Vehicles '92 Symposium, IEEE Industrial Electronics, 1992, pp. 265-270 (Detroit, USA)
143. F. Giunchiglia, P. Traverso, A. Cimatti, P. Pecchiari, *A System for Multi-Level Reasoning*. In A. Yonezawa, B.C. Smith, IMSA '92, International Workshop on New Models for Software Architecture, 1992, pp. 190-195 (Tokyo, Japan)
144. F. Giunchiglia, P. Traverso, A. Cimatti, L. Spalazzi, *Tactics: extending the notion of plan*. In Gerd Grosse (ed.), ECAI-92 Workshop 'Beyond Sequential Planning', 1992, (Vienna, Austria)
145. F. Giunchiglia, P. Traverso, *Reflective reasoning with and between a declarative metatheory and the implementation code*. In John Mylopoulos, Raymond Reiter (eds.), 12th International Joint Conference on Artificial Intelligence (IJCAI 1991), Morgan Kaufmann, 1991, pp. 111-117, Sydney, Australia
146. F. Giunchiglia, P. Traverso, *Plan formation and execution in a uniform architecture of declarative metatheories*. In M. Bruynooghe, META 90, Proceedings of the Second Workshop on Meta-programming in Logic, 1990, pp. 306-322 (Leuven, Belgium)

National Journals

147. P. Traverso, *L'impatto dell'AI sulla società*. In «BioLaw Journal - Forum: Law and Artificial Intelligence», n. 1, pp. 479-481, 2020
148. P. Traverso; M. Pistore; E. Farella; A.L. Murphy.; A. Marconi; P. Forner, *Fra Pubblico e Privato: Sistemi Digitali Simbiotici per la Persona*. In «MONDO DIGITALE», vol. XVIII, n. 80, 2019
149. P. Traverso, *Planning as executable actions: a first step towards a theory of reactive planning*. In «AI*IA Notizie», AI*IA Associazione Italiana per l'Intelligenza Artificiale, 1995
150. F. Giunchiglia, P. Traverso, A. Cimatti, L. Spalazzi, S. Dalbosco, L. Serafini, E. Giunchiglia, A. Armando, P. Pecchiari, *MRG: sistema di ragionamento*. In «AUTOMAZIONE E STRUMENTAZIONE», vol. 9, 1993, pp. 97-103
151. F. Giunchiglia, P. Traverso, A. Cimatti, L. Spalazzi, S. Dalbosco, L. Serafini, E. Giunchiglia, A. Armando, P. Pecchiari, *MRG: un nucleo di ragionamento per un sistema integrato multifunzionale*. In «SISTEMI INTELLIGENTI», vol. 3, 1993, pp. 435-460

152. F. Giunchiglia, P. Traverso, L. Serafini, *La deduzione automatica*. In «SISTEMI INTELLIGENTI», vol. 1, 1991

National Conference Proceedings

153. L. Serafini, P. Traverso, *Learning abstract planning domains and mappings to real world perceptions*. In proceedings of the 18th International Conference of the Italian Association for Artificial Intelligence (AIIA 2019). LNAI series, Springer Verlag, 2019.
154. I. Di Pietro, F. Pagliarecci, M. Pistore, L. Spalazzi, P. Traverso, *Semantic Annotation for Web Service Processes*. In SEBD 2008, Sixteenth Italian Symposium on Advanced Database Systems, 2008, pp. 69-80 (Mondello-Palermo, Italy) 2008
155. F. Pagliarecci, M. Pistore, L. Spalazzi, P. Traverso, *Web Service Discovery at Process-level Based on Semantic Annotation*. In SEBD 2007 - 15th Italian Symposium on Advanced Database Systems, Proceedings, 2007, pp. 220-232
156. M. Pistore, L. Spalazzi, P. Traverso, *A Minimalist Approach to Semantic Annotations for Web Processes Compositions*. In Valeria De Antonellis, Claudia Diamantini, Paolo Tiberio (eds.), SEBD 2006 - 14th Italian Symposium on Advances Database Systems, 2006, pp. 208-216
157. P. Traverso, L. Spalazzi, A. Cimatti, *A planning language and a semantics for real world autonomous agents*. In Amedeo Cesta (ed.), 1993 Italian Planning Workshop, 1993, (Roma, Italy)
158. F. Giunchiglia, P. Traverso, A. Cimatti, L. Spalazzi, S. Dalbosco, L. Serafini, E. Giunchiglia, A. Armando, P. Pecchiari, *Un nucleo di ragionamento per un sistema integrato multi-funzionale: stato di avanzamento*. In Automation 1992, 36th ANIPLA Conference, Pirella, 1992, pp. 620-633 (Genova)
159. F. Giunchiglia, A. Cimatti, S. Dalbosco, P. Traverso, L. Spalazzi, *MRG: un sistema di ragionamento distribuito per applicazioni complesse*. In Atti seconda giornata di lavoro del gruppo Intelligenza Artificiale Distribuita (DAI) dell'AI*IA, 1992, (Roma)
160. D. Basin, F. Giunchiglia, P. Traverso, *Automating meta-theory creation and system extension*. In E. Ardizzone, S. Gaglio, F. Sorbello (eds.), Trends in Artificial Intelligence, Proceedings of the 2nd Congress of the Italian Association for Artificial Intelligence (AI*IA 1991), Springer Verlag, vol. 549, 1991, pp. 48-57 (Palermo, Italy)
161. F. Curatelli, G.M. Bisio, E. Di Zitti, M. Marchesi, P. Traverso, *Un simulatore Funzionale per Sistemi VLSI e Architetture a Flusso di Dati*. In "Congresso Annuale AICA – Atti 87", pp. 19-29, Trento, settembre 1987, AICA.
162. F. Giunchiglia, M. Pilotto, P. Traverso, *Un sistema a produzioni per la generazione di scene*. In "Congresso Annuale AICA – Atti 85", pp. 32-42, Firenze, settembre 1985, AICA.

Miscellaneous

163. P. Traverso. Forward to the book "Human + Machine. Ripensare il lavoro nell'età dell'Intelligenza Artificiale" by Daugherty Paul R., Wilson H. James. Guerini Next publishing, 2019, ISBN 9788868962401.
-