

## Paolo Traverso – publication list (updated November 2024)

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### 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.
3. M. Ghallab, D. Nau, and P. Traverso: *ACTING, PLANNING, AND LEARNING*. To be published by Cambridge University Press, 2025.

### Book Chapters

4. 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.
5. 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.
6. S. Battisti, E. Giugliani, R. Prikladnicki, 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.
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8. 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
9. 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
10. 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
11. 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
12. 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
13. P. Traverso, *Formalizing Complex Reasoning*, *Encyclopedia of Microcomputers*, New York, Marcel Dekker, Inc., 1999, pp. 171-188
14. 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

15. 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

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

28. Leonardo Lamanna <sup>a</sup>, Luciano Serafini <sup>a</sup>, Alessandro Saetti <sup>b</sup>, Alfonso Emilio Gerevini <sup>b</sup>, Paolo Traverso · *Lifted action models learning from partial traces*. In «ARTIFICIAL INTELLIGENCE», Volume 339, February 2025, 104256, Elsevier.
29. 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.
30. 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.
31. 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.
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33. 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
34. 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
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36. 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

37. 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
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54. L. Lamanna, M. Faridghasemnia, A. Gerevini, A. Saetti, A. Saffiotti, L. Serafini, P. Traverso, *Learning to Act for Perceiving in Partially Unknown Environments*. In Proceedings of the 32nd International Joint Conference on Artificial Intelligence (IJCAI 2023). Macao (China), August 2023. AAAI Press, 2023.
55. L. Lamanna, L. Serafini, M. Faridghasemnia, A. Saffiotti, A. Saetti, A. Gerevini, P. Traverso, *Planning for Learning Object Properties*. In Proceedings of the Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI-23). Washington DC (USA), February 2023, AAAI Press, 2023.
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57. T. Campari, L. Lamanna, P. Traverso, L. Serafini, L. Ballan. *Online Learning of Reusable Abstract Models for Object Goal Navigation*. In proceedings of CVPR 2022 - Conference on Computer Vision and Pattern Recognition, pp. 14850-14859. New Orleans (USA), June 2022.
58. 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.
59. 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.
60. L. Lamanna, A. Saetti L. Serafini, A. Gerevini, P. Traverso, *Online Learning of Action Models for PDDL Planning*. In Proceedings IJCAI-21 - 30th International Joint Conference on Artificial Intelligence., August 2021.
61. 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).
62. 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.
63. 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*.
64. 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).
65. 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).
66. 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.
67. 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), pp. 236-243. San Francisco (USA), July 2016.
68. 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.
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74. 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 – 20<sup>th</sup> International Conference on Web Services. Santa Clara, CA (USA), 2013, IEEE Press, pp 571-578.
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