

## Paolo Traverso – publication list (April 2021)

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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.

### 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. 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*. Edwrđ Elgar Publishing, 2018, pp. 248-262.
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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
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25. 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

27. S. Patra, M. Ghallab, J.M. Mason, D. Nau, P. Traverso, *Deliberative Acting, Online Planning and Learning with Hierarchical Operational Models*. To be published in «ARTIFICIAL INTELLIGENCE», (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
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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
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52. 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, 2021.
53. 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), AAAI Press, 2021.
54. 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*.
55. 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).
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59. 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.
60. 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.
61. 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.
62. Paolo Traverso, *Change Alone is Unchanging - Continuous Context-aware Adaptation of Service-based Systems for Smart Cities and Communities*. CLOSER 2015: IS-7
63. 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.
64. 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
65. 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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Trento (Italy), April 2021