- Abbeel, P. and A. Ng (2004). "Apprenticeship learning via inverse reinforcement learning". In: *Proc. 21st Int. Conf. Machine learning*.
- Abraham, R., J. Marsden, and T. Ratiu (1988). *Manifolds, Tensor Analysis, and Applications*. Springer.
- Abramson, N. (2009). "The ALOHAnet: Surfing for wireless data". In: *IEEE Communications Magazine* 47 (12), pages 21–25.
- Alais, M. (1953). "Le comportement de l'homme rationnel devant le risque: Critique des postulats et axiomes de l'ecole americaine". In: *Econometrica* 21 (4), pages 503–546.
- Andrieu, C. et al. (2003). "An introduction to MCMC for machine learning". In: *Machine Learning* 50, pages 5–43.
- Åström, K. (1965). "Optimal control of Markov processes with incomplete state information". In: *J. Mathematical Analysis and Applications* 10, pages 174–205.
- Auer, P., N. Cesa-Bianchi, and P. Fisher (2002). "Finite-time analysis of the multiarmed bandit problem". In: *Machine Learning* 47, pages 235–256.
- Baum, L. and T. Petrie (1966). "Statistical inference for probabilistic functions of finite state Markov chains". In: *Annals of Mathematical Statistics* 37 (6), pages 1554–1563.
- Bellman, R. (1954). The Theory of Dynamic Programming. Technical report P-550. The RAND corporation.
- Ben-David, S. and S. Shalev-Shwartz (2014). *Understanding Machine Learning:* From Theory to Algorithms. Cambridge University Press.
- Benveniste, A., M. Métevier, and P. Priouret (1990). Adaptive Algorithms and Stochastic Approximations. Springer-Verlag.

Bernoulli, D. (1738). "Specimen theoriae novae de mensura sortis". In: Commentarii Academiae Scientiarum Imperialis Petropolitanae 5, pages 175–192. "Exposition of a new theory on the measurement of risk". Translated by L. Sommers. In: Econometrica 22 (1), pages 23–36.

- Bertsekas, D. (2015). Convex Optimization Algorithms. Athena Scientific.
- Bertsekas, D. and D. Castañon (1999). "Rollout algorithms for stochastic scheduling problems". In: *J. Heuristics* 5, pages 89–108.
- Bertsekas, D. and S. Shreve (1996). Stochastic Optimal Control: The Discrete-Time Case. Athena Scientific.
- Bertsekas, D. and J. Tsitsiklis (2008). *Introduction to Probability*. Athena Scientific.
- Bishop, C. (2006). Pattern Recognition and Machine Learning. Springer.
- Blackwell, D. (1965). "Discounted dynamic programming". In: Annals of Mathematical Statistics 36 (1), pages 226–235.
- Boger, J. et al. (2005). "A decision-theoretic approach to task assistance for persons with dementia". In: *Proc. 19th Int. Joint Conf. Artificial Intelligence*, pages 1293–1299.
- Borkar, V. (2008). Stochastic Approximation: A Dynamical Systems Viewpoint. Cambridge University Press.
- Boyan, J. and A. Moore (1995). "Generalization in reinforcement learning: Safely approximating the value function". In: *Adv. Neural Information Proc. Systems* 7, pages 369–376.
- Boyd, S. and L. Vandenberghe (2004). *Convex Optimization*. Cambridge University Press.
- Cappé, O., E. Moulines, and T. Rydén (2005). *Inference in Hidden Markov Models*. Springer.
- Carothers, N.L. (2000). Real Analysis. Cambridge University Press.
- Cassandra, A. (1998). "Exact and approximate algorithms for partially observable Markov decision processes". PhD thesis. Brown University.
- Cassandra, A., L. Kaelbling, and J. Kurien (1996). "Acting under uncertainty: Discrete Bayesian models for mobile-robot navigation". In: *Proc.* 1996 IEEE/RSJ Int. Conf. Intelligent Robots and Systems, pages 963–972.

Cassandra, A., L. Kaelbling, and M. Littman (1994). "Acting optimally in partially observable stochastic domains". In: *Proc. 12th AAAI Int. Conf. Artificial Intelligence*, pages 1023–1028.

- Cassandra, A., M. Littman, and N. Zhang (1997). "Incremental Prunning: A simple, fast, exact method for partially observable Markov decision processes". In: *Proc.* 13th Conf. Uncertainty in Artificial Intelligence, pages 54–61.
- Chadès, I. et al. (2008). "When to stop managing or surveying cryptic threatened species". In: *Proc. National Academy of Sciences* 105 (37), pages 13936–13940.
- Cheng, H. (Aug. 1988). "Algorithms for partially observable Markov decision processes". PhD thesis. Univ. British Columbia.
- Choi, J. and K. Kim (2011). "Inverse reinforcement learning in partially observable environments". In: *J. Machine Learning Res.* 12, pages 691–730.
- Chrisman, L. (1992). "Reinforcement learning with perceptual aliasing: The perceptual distinctions approach". In: Proc. 10th AAAI Int. Conf. Artificial Intelligence, pages 183–188.
- Cybenko, G. (1989). "Approximation by superpositions of a sigmoidal function". In: *Mathematics of Control, Signals, and Systems* 2, pages 303–314.
- Dempster, A., N. Laird, and D. Rubin (1977). "Maximum likelihood from incomplete data via the EM algorithm". In: *J. Royal Statistical Society B* 39 (1), pages 1–38.
- Duflo, M. (1997). Random Iterative Models. Springer.
- Durbin, R. et al. (1998). Biological Sequence Analysis: Probabilistic Models of Proteins and Nucleic Acids. Cambridge University Press.
- Ellis, H., M. Jiang, and R. Corotis (1995). "Inspection, maintenance, and repair with partial observability". In: *J. Infrastructure Systems* 1 (2), pages 92–99.
- Ellsberg, D. (1961). "Risk, ambiguity, and the savage axioms". In: Quarterly Journal of Economics 75 (4), pages 643–669.
- Farias, D. (2002). "The linear programming approach to approximate dynamic programming: Theory and application". PhD thesis. Stanford Univ.
- Farias, D. and B. Van Roy (2003). "The linear programming approach to approximate dynamic programming". In: *Operations Research* 51 (6), pages 850–865.
- Feinberg, E., J. Huang, and B. Scherrer (2014). "Modified policy iteration algorithms are not strongly polynomial for discounted dynamic programming". In: *Operations Research Letters* 42, pages 429–431.

Ferns, N., P. Panangaden, and D. Precup (2004). "Metrics for finite Markov decision processes". In: *Proc. 20th Conf. Uncertainty in Artificial Intelligence*, pages 162–169.

- Ferns, N. and D. Precup (2014). "Bisimulation metrics are optimal value functions". In: *Proc. 30th Conf. Uncertainty in Artificial Intelligence*, pages 210–219.
- Finn, C., S. Levine, and P. Abbeel (2016). "Guided cost learning: Deep inverse optimal control via policy optimization". In: *CoRR* abs/1603.00448.
- Fishburn, P. (1970). Utility Theory for Decision Making. John Wiley & Sons.
- (1982). The Foundations of Expected Utility. D. Reidel Publishing.
- Flach, P. (2012). Machine Learning. Cambridge University Press.
- Friedman, J., R. Tibshirani, and T. Hastie (2001). The Elements of Statistical Learning. Springer.
- Geman, S. and D. Geman (1984). "Stochastic relaxation, Gibbs distributions and the Bayesian restoration of images". In: *IEEE Trans. Pattern Analysis and Machine Intelligence* 6, pages 721–741.
- Gilbert, E. (1959). "On the identifiability problem for functions of finite Markov chains". In: *Annals of Mathematical Statistics* 30 (3), pages 688–697.
- Gilboa, I. (2009). Theory of Decision Under Uncertainty. Cambridge University Press.
- Givan, R., T. Dean, and M. Greig (2003). "Equivalence notions and model minimization in Markov decision processes". In: *Artificial Intelligence* 147 (1-2), pages 163–223.
- Gluss, B. (1959). "An optimum policy for detecting a fault in a complex system". In: *Operations Research* 24, pages 468–477.
- Goodfellow, I., Y. Bengio, and A. Courville (2016). Deep Learning. MIT Press.
- Gordon, G. (1995). "Stable function approximation in dynamic programming". In: *Proc. 12th Int. Conf. Machine Learning*, pages 261–268.
- Häggström, O. (2002). Finite Markov Chains and Algorithmic Applications. Cambridge University Press.
- Halmos, P. (1987). Finite Dimensional Vector Spaces. Springer.
- Hansen, E. (1997). "An improved policy iteration algorithm for partially observable MDPs". In: Adv. Neural Information Proc. Systems 10, pages 1015–1021.

— (1998). "Solving POMDPs by searching in policy space". In: *Proc. 14th Conf. Uncertainty in Artificial Intelligence*, pages 211–219.

- Hastings, W. (1970). "Monte Carlo sampling methods using Markov chains and their applications". In: *Biometrika* 57, pages 97–109.
- Hauskrecht, M. (2000). "Value-function approximations for partially observable Markov decision processes". In: *J. Artificial Intelligence Res.* 13 (1), pages 33–94.
- Hauskrecht, M. and H. Fraser (2000). "Planning treatment of ischemic heart disease with partially observable Markov decision processes". In: *Artificial Intelligence in Medicine* 18 (3), pages 221–244.
- Ho, J. and S. Ermon (2016). "Generative adversarial imitation learning". In: Adv. Neural Information Proc. Systems 29, pages 4565–4573.
- Hoffman, M. et al. (2007). "Trans-dimensional MCMC for Bayesian policy learning". In: Adv. Neural Information Proc. Systems 20, pages 665–672.
- Hornik, K. (1991). "Approximation capabilities of multilayer feedforward networks". In: *Neural Networks* 4, pages 251–257.
- Hsu, D., W. Lee, and N. Rong (2007). "What makes some POMDP problems easy to approximate?" In: Adv. Neural Information Proc. Systems 20, pages 689–696.
- Ignall, E. and P. Kolesar (1974). "Optimal dispatching of an infinite-capacity shuttle: Control at a single terminal". In: *Operations Research* 22, pages 1008–1024.
- Ji, S. et al. (2007). "Point-based policy iteration". In: *Proc. 22nd AAAI Conf. Artificial Intelligence*, pages 1243–1249.
- Kaelbling, L., M. Littman, and A. Cassandra (1998). "Planning and acting in partially observable stochastic domains". In: *Artificial Intelligence* 101, pages 99–134.
- Kendall, D. (1959). "Unitary dilations of Markov transition operators and the corresponding integral representation for transition probability matrices". In: *Probability and Statistics: The Harald Cramér Volume*. Edited by U. Grenander. Almqvist and Wiksell, pages 139–161.
- Khachiyan, L. (1980). "Polynomial algorithms in linear programming". In: *USSR Computational Mathematics and Mathematical Physics* 20 (1), pages 53–72.
- Khalil, H. (2001). Nonlinear Systems. 3rd. Prentice Hall.

Kochenderfer, Mykel J. (2015). Decision Making Under Uncertainty: Theory and Application. MIT Press.

- Krogh, A., I.S. Mian, and D. Haussler (1994). "A hidden Markov model that finds genes in *E.coli* DNA". In: *Nucleic Acids Research* 22 (22), pages 4768–4778.
- Kuhn, H. (1955). "The Hungarian method for the assignment problem". In: Naval Research Logistics Quarterly 2, pages 83–97.
- Kurniawati, H., D. Hsu, and W. Lee (2008). "SARSOP: Efficient point-based POMDP planning by approximating optimally reachable belief spaces". In: *Proc. Robotics: Science and Systems IV*, pages 65–72.
- Kushner, H. and G. Yin (2003). Stochastic Approximation and Recursive Algorithms and Applications. Springer.
- Lefèvre, C. (1981). "Optimal control of a birth and death epidemic process". In: *Operations Research* 29 (5), pages 971–982.
- Littman, M. (Dec. 1994). The Witness algorithm: Solving partially observable Markov decision processes. Technical report CS-94-40. Dep. Computer Science, Brown University.
- (1995). "On the complexity of solving Markov decision problems". In: *Proc.* 11th Conf. Uncertainty in Artificial Intelligence, pages 394–402.
- (Mar. 1996). "Algorithms for sequential decision-making". PhD thesis. Dep. Computer Science, Brown University.
- Littman, M., A. Cassandra, and L. Kaelbling (1995). "Learning policies for partially observable environments: Scaling up". In: *Proc. 12th Int. Conf. Machine Learning*, pages 362–370.
- Liu, J., W. Wong, and A. Kong (1995). "Covariance structure and convergence rate of the Gibbs sampler with various scans". In: *J. Royal Statistical Society B* 57 (1), pages 157–169.
- Lopes, M., F. S. Melo, B. Kenward, et al. (2009). "A computational model of social-learning mechanisms". In: *Adaptive Behaviour* 17 (6), pages 467–483.
- Lopes, M., F. S. Melo, and L. Montesano (2009). "Active learning for reward estimation in inverse reinforcement learning". In: *Proc. 2009 Eur. Conf. Machine Learning and Practice of Knowledge Discovery in Databases*, pages 31–46.
- Lovejoy, W. (1991). "Computationally feasible bounds for partially observed Markov decision processes". In: *Operations Research* 39 (1), pages 162–175.
- Luenberger, D. (1979). Introduction to Dynamical Systems. John Wiley and Sons.

Lusena, C., J. Goldsmith, and M. Mundhenk (2001). "Nonapproximability results for partially observable Markov decision processes". In: *J. Artificial Intelligence Res.* 14, pages 83–103.

- Madani, O., S. Hanks, and A. Condon (2003). "On the undecidability of probabilistic planning and related stochastic optimization problems". In: *Artificial Intelligence* 147, pages 5–34.
- Mausam and A. Kolobov (2012). Planning with Markov Decision Processes: An AI Perspective. Morgan & Claypool Publishers.
- McAllester, D. and S. Singh (1999). "Approximate planning for factored POMDPs using belief state simplification". In: *Proc. 15th Annual Conf. Uncertainty in Artificial Intelligence*, pages 409–416.
- McCallum, A. (1992). First results with utile distinction memory for reinforcement learning. Technical report 446. Computer Science Department, University of Rochester.
- Melo, F. S. and M. Lopes (2010). "Learning from demonstrations using MDP induced metrics". In: Proc. 2010 Eur. Conf. Machine Learning and Practice of Knowledge Discovery in Databases, pages 385–401.
- Melo, F. S., M. Lopes, and R. Ferreira (2010). "Analysis of inverse reinforcement learning with perturbed demonstrations". In: *Proc.* 19th European Conf. Artificial Intelligence, pages 349–354.
- Melo, F.S. and M.I. Ribeiro (2006). "Transition entropy in partially observable Markov decision processes". In: *Proc. 9th Int. Conf. Intelligent Autonomous Systems*, pages 282–289.
- Metropolis, N. et al. (1953). "Equations of state calculations by fast computing machines". In: *J. Chemical Physics* 21 (6), pages 1087–1091.
- Meuleau, N. et al. (1999). "Solving POMDPs by searching the space of finite policies". In: *Proc.* 15th Conf. Uncertainty in Artificial Intelligence, pages 417–426.
- Meyn, S. and R. Tweedie (2009). Markov Chains and Stochastic Stability. Cambridge University Press.
- Mikusiński, P. and M. Taylor (2002). An Introduction to Multivariable Analysis: From Vector to Manifold. Springer Science.
- Mitchell, T. (1997). Machine Learning. McGraw-Hill.
- Monahan, G. (1982). "A survey of partially observable Markov decision processes: Theory, models, and algorithms". In: *Management Science* 28 (1), pages 1–16.

Mundhenk, M. (2000). The complexity of planning with partially-observable Markov decision processes. Technical report TR2000-376. Computer Science Dep., Dartmouth College.

- Mundhenk, M. et al. (2000). "Complexity of finite-horizon Markov decision process problems". In: *J. ACM* 37 (4), pages 681–720.
- Murphy, K. (2012). Machine Learning: A Probabilistic Perspective. MIT Press.
- Neu, G. and C. Szepesvári (2007). "Apprenticeship learning using inverse reinforcement learning and gradient methods". In: *Proc. 23rd Conf. Uncertainty in Artificial Intelligence*, pages 295–302.
- (2009). "Training parsers by inverse reinforcement learning". In: *Machine Learning* 77 (2-3), pages 303–337.
- Newell, A. and H. Simon (June 1956). The logic theory machine: A complex information processing system. Technical report. The RAND corporation.
- Ng, A. and S. Russell (2000). "Algorithms for inverse reinforcement learning". In: *Proc. 17th Int. Conf. Machine Learning*, pages 663–670.
- Nikovski, D. and I. Nourbakhsh (2002). "Learning probabilistic models for state tracking of mobile robots". In: *Proc. 2002 IEEE/RSJ Int. Conf. Intelligent Robots and Systems*, pages 1026–1031.
- Nummelin, E. (1984). General Irreducible Markov Chains and Non-Negative Operators. Cambridge University Press.
- Nummelin, E. and R. Tweedie (1978). "Geometric ergodicity and R-positivity for general Markov chains". In: Annals of Probability 6 (3), pages 404–420.
- Ong, S. et al. (2010). "Planning under uncertainty for robotic tasks with mixed observability". In: *Int. J. Robotics Research* 29 (8), pages 1053–1068.
- Papadimitriou, C. and J. Tsitsiklis (1987). "The complexity of Markov decision processes". In: *Mathematics of Operations Research* 12 (3), pages 441–450.
- Paquet, S., L. Tobin, and B. Chaib-draa (2005). "An online POMDP algorithm for complex multiagent environments". In: *Proc.* 4th Int. Conf. Autonomous Agents and Multiagent Systems, pages 970–977.
- Parks, D. (1981). "Concurrency and automata on infinite sequences". In: *Proc. 5th GI-Conference on Theoretical Computer Science*, pages 167–183.
- Pineau, J., G. Gordon, and S. Thrun (2003). "Point-based value iteration: An anytime algorithm for POMDPs". In: *Proc. 18th Int. Joint Conf. Artificial Intelligence*, pages 1025–1032.

Popov, N. (1977). "Conditions for geometric ergodicity of countable Markov chains". In: Soviet Math. Doklady 18 (3), pages 676–679.

- Poupart, P. (2005). "Exploiting structure to efficiently solve large scale partially observable Markov decision processes". PhD thesis. Dep. Computer Science, Univ. Toronto.
- Poupart, P. and C. Boutilier (2003). "Bounded finite state controllers". In: Adv. Neural Information Proc. Systems 16, pages 823–830.
- (2004). "VDCBPI: An approximate scalable algorithm for large POMDPs". In: Adv. Neural Information Proc. Systems 17, pages 1081–1088.
- Poupart, P., K. Kim, and D. Kim (2011). "Closing the gap: Improved bounds on optimal POMDP solutions". In: *Proc. 21st Int. Conf. Automated Planning and Scheduling*, pages 194–201.
- Powers, M. (2015). "Paradox-proof utility functions for heavy-tailed payoffs: Two instructive two-envelope problems". In: *Risks* 3, pages 26–34.
- Puterman, M. (2005). Markov Decision Processes: Discrete Stochastic Dynamic Programming. John Wiley & Sons.
- Rabiner, L. (1989). "A tutorial to hidden Markov models and selected applications in speech recognition". In: *Proc. IEEE* 77 (2), pages 257–286.
- Ramachandran, D. and E. Amir (2007). "Bayesian inverse reinforcement learning". In: *Proc. 20th Int. Joint Conf. Artificial Intelligence*, pages 2586–2591.
- Ravindran, B. (Feb. 2004). "An algebraic approach to abstraction in reinforcement learning". PhD thesis. University of Massachusetts Amherst.
- Ravindran, B. and A. Barto (2002). "Model minimization in hierarchical reinforcement learning". In: *Proc. 5th Int. Symp. Abstraction, Reformulation and Approximation*, pages 196–211.
- Robert, C. and G. Casella (1999). Monte Carlo Statistical Methods. Springer.
- Roberts, G. and J. Rosenthal (2004). "General state space Markov chains and MCMC algorithms". In: *Probability Surveys* 1, pages 20–71.
- Roberts, G. and R. Tweedie (1996). "Geometric convergence and central limit theorems for multivariate Hastings and Metropolis algorithms". In: *Biometrika* 83, pages 95–110.
- Roberts, L. (1975). "ALOHA packet system with and without slots and capture". In: Computer Communications Review 5 (2), pages 28–42.

Ross, S. and B. Chaib-draa (2007). "AEMS: An anytime online search algorithm for approximate policy refinement in large POMDPs". In: *Proc. 20th Int. Joint Conf. Artificial Intelligence*, pages 2592–2598.

- Ross, S., G. Gordon, and J. Bagnell (2011). "A reduction of imitation learning and structured prediction to no-regret online learning". In: *Proc.* 14th Int. Conf. Artificial Intelligence and Statistics, pages 627–635.
- Ross, S., J. Pineau, et al. (2008). "Online planning algorithms for POMDPs". In: *J. Artificial Intelligence Res.* 32, pages 663–704.
- Rudin, W. (1976). Principles of Mathematical Analysis. McGraw-Hill.
- Russell, S. and P. Norvig (2010). Artificial Intelligence, a Modern Approach. Prentice Hall.
- Samuel, A. (1959). "Some studies in machine learning using the game of checkers". In: *IBM J. Research and Development* 3 (3). Reprinted in IBM J. Res. Devel. 44:1/2, pp. 206-226, 2000., pages 210-229.
- (1967). "Some studies in machine learning using the game of checkers II: Recent progress". In: *IBM J. Research and Development* 11, pages 601–617.
- Savage, L. (1972). The Foundations of Statistics. Dover Publications.
- Shani, G., R. Brafman, and S. Shimony (2007). "Forward search value iteration for POMDPs". In: *Proc. 20th Int. Joint Conf. Artificial Intelligence*, pages 2619–2624.
- Shani, G., J. Pineau, and R. Kaplow (2013). "A survey of point-based POMDP solvers". In: J. Autonomous Agents and Multi-Agent Systems 27, pages 1–51.
- Shoham, Y. and K. Leyton-Brown (2009). Multiagent Systems: Algorithmic, Gametheoretic, and Logical Foundations. Cambridge University Press.
- Sigaud, O. and O. Buffet, editors (2013). Markov Decision Processes in Artificial Intelligence. John Wiley & Sons.
- Silver, D. and J. Veness (2010). "Monte-Carlo planning in large POMDPs". In: *Adv. Neural Information Proc. Systems 23.* Volume 2164-2172.
- Smith, T. and R. Simmons (2005). "Point-based POMDP algorithms: Improved analysis and implementation". In: *Proc. 21st Conf. Uncertainty in Artificial Intelligence*, pages 542–547.
- Sondik, E. (June 1971). "The optimal control of partially observable Markov processes". PhD thesis. Stanford Univ.

— (1978). "The optimal control of partially observable Markov processes over the infinite horizon: Discounted costs". In: Operations Research 25 (2), pages 282— 304.

- Spaan, M. and N. Vlassis (2005). "Perseus: Randomized point-based value iteration for POMDPs". In: *J. Artificial Intelligence Res.* 24, pages 195–220.
- Stigler, G. (1950a). "The development of utility theory, part I". In: *J. Political Economy* 58 (4), pages 307–327.
- (1950b). "The development of utility theory, part II". In: *J. Political Economy* 63 (5), pages 373–396.
- Strang, G. (2009). Introduction to Linear Algebra. Wellesley Cambridge Press.
- Sutton, R. (1988). "Learning to predict by the methods of temporal differences". In: *Machine Learning* 3, pages 9–44.
- Sutton, R. and A. Barto (1998). Reinforcement Learning: An Introduction. MIT Press.
- Sutton, R., D. Precup, and S. Singh (1999). "Between MDPs and Semi-MDPs: A framework for temporal abstraction in reinforcement learning". In: *Artificial Intelligence* 112, pages 181–211.
- Syed, U. and R. Schapire (2007a). "A game-theoretic approach to apprenticeship learning". In: Adv. Neural Information Proc. Systems 20, pages 1449–1456.
- (2007b). "Imitation learning with a value-based prior". In: *Proc. 23rd Conf. Uncertainty in Artificial Intelligence*, pages 384–391.
- (2010). "A reduction from apprenticeship learning to classification". In: Adv. Neural Information Proc. Systems 23, pages 2253–2261.
- Szepesvári, C. and M. Littman (1999). "A unified analysis of value-function-based reinforcement-learning algorithms". In: *Neural Computation* 11 (8), pages 2017–2060.
- Taylor, J., D. Precup, and P. Panangaden (2008). "Bounding performance loss in approximate MDP homomorphisms". In: Adv. Neural Information Processing Systems 21, pages 1649–1656.
- Tierney, L. (1994). "Markov Chains for exploring posterior distributions". In: *Annals of Statistics* 22, pages 1701–1762.
- Toussaint, M., S. Harmeling, and A. Storkey (Dec. 2006). *Probabilistic inference for solving (PO)MDPs*. Technical report Informatics Research Report 0934. School of Informatics, University of Edimburgh.

Toussaint, M. and A. Storkey (2006). "Probabilistic inference for solving discrete and continuous state Markov decision processes". In: *Proc. 23rd Int. Conf. Machine Learning*, pages 945–952.

- Tsitsiklis, J. (2002). "On the convergence of optimistic policy iteration". In: J. Machine Learning Res. 3, pages 59–72.
- (2007). "NP-Hardness of checking the unichain condition in average cost MDPs".
 In: Operations Research Letters 35, pages 319–323.
- Tsitsiklis, J. and B. Van Roy (1996). "Feature-based methods for large-scale dynamic programming". In: *Machine Learning* 22, pages 59–94.
- Vere-Jones, D. (1962). "Geometric ergodicity in denumerable Markov chains". In: *Quart. J. Math. Oxford* 13 (2), pages 7–28.
- Viterbi, A. (1967). "Error bounds for convolutional codes and an asymptotically optimum decoding algorithm". In: *IEEE Transactions on Information Theory* 13 (2), pages 260–269.
- von Neumann, J. and O. Morgenstern (1944). Theory of Games and Economic Behavior. Princeton University Press.
- Vroman, M. (Oct. 2014). "Maximum likelihood inverse reinforcement learning". PhD thesis. Rutgers University.
- Watkins, C. (May 1989). "Learning from delayed rewards". PhD thesis. King's College, University of Cambridge.
- White, D. (1993). "A survey of applications of Markov decision processes". In: *J. Operational Research Soc.* 44 (11), pages 1073–1096.
- Ye, Y. (2005). "A new complexity result on solving the Markov decision problem". In: *Mathematics of Operations Research* 30 (3), pages 733–749.
- (2011). "The simplex and policy-iteration methods are strongly polynomial for the Markov decision problem with a fixed discount rate". In: *Mathematics of Operations Research* 36 (4), pages 593–603.
- Yonezaki, T., K. Yoshida, and T. Yagi (1998). "An error correction approach based on the MAP algorithm combined with hidden Markov models". In: *Proc.* 1998 IEEE Int. Conf. Acoustics, Speech and Signal Processing, pages 33–36.
- Young, S. et al. (2013). "POMDP-based statistical spoken dialog systems: A review". In: *Proc. IEEE* 101 (5), pages 1160–1179.

Zhang, N. and W. Liu (1996). Planning in stochastic domains: Problem characteristics and approximation. Technical report HKUST-CS96-31. Dep. Computer Science, Hong Kong University of Science and Technology.

- Zhang, Z., D. Hsu, and W. Lee (2014). "Covering number for efficient heuristic-based POMDP planning". In: *Proc. 31st Int. Conf. Machine Learning*, pages 28–36.
- Zhang, Z., M. Littman, and X. Chen (2012). "Covering number as a complexity measure for POMDP planning and learning". In: *Proc. 16th AAAI Conf. Artificial Intelligence*, pages 1853–1859.
- Ziebart, B. et al. (2008). "Maximum entropy inverse reinforcement learning". In: *Proc. 23rd AAAI Conf. Artificial Intelligence*, pages 1433–1438.