

DAFTAR PUSTAKA

- Arner, D. W., Barberis, J., Buckley, R. P., NOS BARBERIS, J., & Buckley-, R. P. (2016). The Evolution of FinTech: A New Post-Crisis Paradigm. *Georgetown Journal of International Law*, 47(4), 1271–1320.
- Bertsimas, D., & Kallus, N. (2020). From Predictive to Prescriptive Analytics. *Strategic Finance*, 62–63.
- Boell, S. K., & Cecez-kecmanovic, D. (2015). On being ‘systematic’ in literature reviews in IS. *Journal of Information Technology*, 161–173. <https://doi.org/10.1057/jit.2014.26>
- Brandão, I. V., da Costa, J. P. C. L., Praciano, B. J. G., de Sousa Jr., R. T., & Mendonça, F. L. L. (2020). Decision support framework for the stock market using deep reinforcement learning. *5th Workshop on Communication Networks and Power Systems (WCNPS), Wcnps*. <https://doi.org/10.1109/WCNPS50723.2020.9263712>
- Brewer, P. C., Garrison, R. H., & Noreen, E. W. (2019). Introduction to Managerial Accounting : Eighth Edition. In *Issues in Accounting Education* (Vol. 8).
- Cannelli, L., Nuti, G., Sala, M., & Szehr, O. (2023). Hedging using reinforcement learning : Contextual k -armed bandit versus Q -learning. *The Journal of Finance and Data Science*, 9(December 2022), 100101. <https://doi.org/10.1016/j.jfds.2023.100101>
- Carbonneau, A., & Godin, F. (2023). Deep Equal Risk Pricing of Financial Derivatives with. *Risks* 11:140.

- Cheng, L. C., Huang, Y. H., Hsieh, M. H., & Wu, M. E. (2021). A Novel Trading Strategy Framework Based on Reinforcement Deep Learning for Financial Market Predictions. *Mathematics*.
- Coache, A. (2024). Reinforcement learning with dynamic convex risk measures. *Mathematical Finance*, January 2022, 557–587. <https://doi.org/10.1111/mafi.12388>
- Cont, R. (2001). Empirical properties of asset returns: Stylized facts and statistical issues. *Quantitative Finance*, 1(2), 223–236. <https://doi.org/10.1080/713665670>
- Cui, T., Du, N., Yang, X., & Ding, S. (2024). Multi-period portfolio optimization using a deep reinforcement learning hyper-heuristic approach. *Technological Forecasting & Social Change*, 198(November 2023), 122944. <https://doi.org/10.1016/j.techfore.2023.122944>
- Daniélsson, J. (2002). Endogenous Risk. *The Illusion of Control*, 109–127. <https://doi.org/10.2307/j.ctv2mm2176.10>
- Ertel, W. (2017). Introduction of Artificial Intelligence. In *Smart Systems for Industrial Applications*. <https://doi.org/10.1002/9781119762010.ch6>
- Gaurav, A., Baishnab, K., & Singh, P. K. (2025). Intelligent ESG portfolio optimization: A multi-objective AI-driven framework for sustainable investments in the Indian stock market. *Sustainable Futures*, 9(December 2024). <https://doi.org/10.1016/j.sftr.2025.100832>
- Giorgi, F., Herzel, S., & Pigato, P. (2024). A reinforcement learning algorithm for trading commodities. *Applied Stochastic Models in Business and Industry*,

40(2), 373–388. <https://doi.org/10.1002/asmb.2825>

Gutsche, G., Wetzel, H., & Ziegler, A. (2023). Determinants of individual sustainable investment behavior - A framed field experiment. *Journal of Economic Behavior and Organization*, 209, 491–508. <https://doi.org/10.1016/j.jebo.2023.03.016>

Hambly, B., & Xu, R. (2023). Recent advances in reinforcement learning in finance. *Mathematical Finance*, February, 437–503. <https://doi.org/10.1111/mafi.12382>

Hansson, S. O. (2005). *Decision Theory A Brief Introduction*. 1–94.

Hao, Z., Zhang, H., & Zhang, Y. (2023). Stock Portfolio Management by Using Fuzzy Ensemble Deep Reinforcement Learning Algorithm. *Journal of Risk and Financial Management*.

Hasan, Z., Vaz, D., Athota, V. S., & Pereira, V. (2023). Can Artificial Intelligence (AI) Manage Behavioural Biases Among Financial Planners ? *Journal of Global Information Management*, 31(2), 1–18. <https://doi.org/10.4018/JGIM.321728>

Heaton, J. B., Polson, N. G., & Witte, J. H. (2023). Deep Learning in Finance. *Digital Finance*, 5(1), 1–2. <https://doi.org/10.1007/s42521-023-00080-2>

Hirdinis, M. (2024). The Risks to Investment Decisions: Can Financial Knowledge and Investor's Experience be Moderate? *Studies in Business and Economics*, 19(3), 137–155. <https://doi.org/10.2478/sbe-2024-0048>

Hosseini, M.-S., Jahanshahloo, F., Akbarzadeh, M. A., Zarei, M., & Vaez-Gharamaleki, Y. (2024). Formulating research questions for evidence-based

- studies. *Journal of Medicine, Surgery, and Public Health*, 2(December 2023), 100046. <https://doi.org/10.1016/j.glmedi.2023.100046>
- Jeyanthi, P. M., Choudhury, T., Hack-Polay, D., Singh, T. P., & Abujar, S. (2022). Decision Intelligence Analytics and the Implementation of Strategic Business Management. In *EAI/Springer Innovations in Communication and Computing*. https://doi.org/10.1007/978-3-030-82763-2_16
- Jia, S., Shen, L., & Xue, H. (2015). Continuous-time Markov decision process with average reward: Using reinforcement learning method. *Chinese Control Conference, CCC, 2015-Septe*, 3097–3100. <https://doi.org/10.1109/ChiCC.2015.7260117>
- Jiang, W., Liu, M., Xu, M., Chen, S., Shi, K., & Liu, P. (2024). New reinforcement learning based on representation transfer for portfolio management. *Knowledge-Based Systems*, 293(March), 111697. <https://doi.org/10.1016/j.knosys.2024.111697>
- Kang, M., Templeton, G. F., Kwak, D., & Um, S. (2024). Development of an AI framework using neural process continuous reinforcement learning to optimize highly volatile financial portfolios. *Knowledge-Based Systems*, 300(November 2023), 112017. <https://doi.org/10.1016/j.knosys.2024.112017>
- Kitchenham, B. (2004). Procedures for Performing Systematic Reviews. *DEBS 2019 - Proceedings of the 13th ACM International Conference on Distributed and Event-Based Systems*, 240–243. <https://doi.org/10.1145/3328905.3332505>
- Kumar, A., Singh, A., Tian, S., Finn, C., & Levine, S. (2021). A Workflow for

- Offline Model-Free Robotic Reinforcement Learning. *5th Conference on Robot Learning (CoRL 2021), London, UK, CoRL*, 1–28.
- Kwon, Y., & Lee, Z. (2024). A hybrid decision support system for adaptive trading strategies : Combining a rule-based expert system with a deep reinforcement learning strategy. *Decision Support Systems*, 177(November 2022), 114100. <https://doi.org/10.1016/j.dss.2023.114100>
- Li, J., Li, N., Xu, Y., & Zhong, G. (2024). *Intelligent investment decision-making based on machine and reinforcement learning forecasting*.
- Li, Y., Jiang, S., Wei, Y., & Wang, S. (2021). Take Bitcoin into your portfolio: a novel ensemble portfolio optimization framework for broad commodity assets. *Financial Innovation*, 7(1). <https://doi.org/10.1186/s40854-021-00281-x>
- Lim, T. (2024). Predictive crypto - asset automated market maker architecture for decentralized finance using deep reinforcement learning. *Financial Innovation*. <https://doi.org/10.1186/s40854-024-00660-0>
- Liovin, V., & Dubrovin, V. (2012). Investment Decision-Making Under Uncertainty. *Proceedings of International Conference on Modern Problem of Radio Engineering, Telecommunications and Computer Science*, 454.
- Ma, C., Zhang, J., Li, Z., & Xu, S. (2023). Multi-agent deep reinforcement learning algorithm with trend consistency regularization for portfolio management. *Neural Computing and Applications*, 35, 6589–6601.
- Maringer, D., & Ramtohul, T. (2012). Regime-switching recurrent reinforcement learning for investment decision making. *Computational Management Science*, 9(1), 89–107. <https://doi.org/10.1007/s10287-011-0131-1>

- Minh, V., Huu, H., & Nguyen, P. Van. (2023). Does reinforcement learning outperform deep learning and traditional portfolio optimization models in frontier and developed financial markets ? *Research in International Business and Finance*, 65(December 2021), 101936. <https://doi.org/10.1016/j.ribaf.2023.101936>
- Nightingale, A. (2009). A guide to systematic literature reviews. *Surgery*, 27(9), 381–384. <https://doi.org/10.1016/j.mpsur.2009.07.005>
- Nishikawa-Pacher, A. (2022). Research Questions with PICO: A Universal Mnemonic. *Publications*, 10(3), 1–10. <https://doi.org/10.3390/publications10030021>
- Opeoluwa, D., & Awwal, S. (2024). Deep LSTM and LSTM-Attention Q-learning based reinforcement learning in oil and gas sector prediction. *Knowledge-Based Systems*, 284(December 2023), 111290. <https://doi.org/10.1016/j.knosys.2023.111290>
- Patel, J., Shah, S., Thakkar, P., & Kotecha, K. (2015). Predicting stock market index using fusion of machine learning techniques. *Expert Systems with Applications*, 42(4), 2162–2172. <https://doi.org/10.1016/j.eswa.2014.10.031>
- Peterson, M. (2009). *An Introduction to Decision Theory*.
- Petticrew, M., & Roberts, H. (2006). Systematic Reviews in the Social Sciences: A Practical Guide. In *Systematic Reviews in the Social Sciences: A Practical Guide*. <https://doi.org/10.1002/9780470754887>
- Prashanth, L. A., & Bhatnagar, S. (2011). Reinforcement learning with function approximation for traffic signal control. *IEEE Transactions on Intelligent*

Transportation Systems, 12(2), 412–421.

<https://doi.org/10.1109/TITS.2010.2091408>

Qiu, J., Shu, L., & Zhang, Y. (2025). The Deep Learning-Based Security Assessment and Optimization Model for Enterprise Information Systems Under Digital Economy. *Journal of Organizational and End User Computing*, 37(1), 1–52. <https://doi.org/10.4018/JOEUC.382092>

Ram, K. S. R., Selvaganapathy, M., Nandhini, I., Tamilselvi, M., Kalavani, M., & Natarajan, B. (2024). Enhanced Investment Decision Making with a Reinforcement Learning-Based Multi-Agent Portfolio Management System. *2nd IEEE International Conference on Data Science and Network Security, ICDSNS 2024*, 1–6. <https://doi.org/10.1109/ICDSNS62112.2024.10691210>

Richardson, W. S., Wilson, M. C., Nishikawa, J., & Hayward, R. S. A. (1995). The well-built clinical question : a key to evidence-based decisions. *ACP Journal Club*, 5, 7–9.

Saraswat, P., & Raj, S. (2021). A Brief Review on Machine Learning and Its Various Techniques. *International Journal of Innovative Research in Computer Science & Technology (IJIRCST)*, 6, 110–113.

Silver, D., Huang, A., Maddison, C. J., Guez, A., Sifre, L., Van Den Driessche, G., Schrittwieser, J., Antonoglou, I., Panneershelvam, V., Lanctot, M., Dieleman, S., Grewe, D., Nham, J., Kalchbrenner, N., Sutskever, I., Lillicrap, T., Leach, M., Kavukcuoglu, K., Graepel, T., & Hassabis, D. (2016). Mastering the game of Go with deep neural networks and tree search. *Nature*, 529(7587), 484–489. <https://doi.org/10.1038/nature16961>

- Sutton, R. S., & Barto, A. G. (2015). *Reinforcement Learning : An Introduction*.
- Van Horne, J. C., & Wachowisz, J. M. (2008). Fundamentals of Financial Managements. In *Pearson Education Limited* (Vol. 16, Issue 43).
<https://doi.org/10.7748/ns2002.07.16.43.29.b366>
- Višić, M. (2022). Connecting Puzzle Pieces: Systematic Literature Review Method in the Social Sciences. *Sociologija*, 64(4), 543.
<https://doi.org/10.2298/SOC2204543V>
- Wang, H., & Yu, S. (2021). Robo-Advising : Enhancing Investment with Inverse Optimization and Deep Reinforcement Learning. *2021 20th IEEE International Conference on Machine Learning and Applications (ICMLA)*, 365–372. <https://doi.org/10.1109/ICMLA52953.2021.00063>
- Wang, X., & Liu, L. (2025). Risk-Sensitive Deep Reinforcement Learning for Portfolio Optimization. *Journal of Risk and Financial Management*, 18(7), 1–22. <https://doi.org/10.3390/jrfm18070347>
- Yang, S. (2023). Deep reinforcement learning for portfolio management. *Knowledge-Based Systems*, 278, 110905.
<https://doi.org/10.1016/j.knosys.2023.110905>
- Yu, C., Liu, J., Nemati, S., & Yin, G. (2022). Reinforcement Learning in Healthcare: A Survey. *ACM Computing Surveys*, 55(1).
<https://doi.org/10.1145/3477600>
- Zhao, L., Deng, B., Wu, L., Liu, C., Guo, M., & Guo, Y. (2024). Deep Reinforcement Learning for Adaptive Stock Trading : Tackling Inconsistent Information and. *Journal of Organizational and End User Computing*, 36(1).

<https://doi.org/10.4018/JOEUC.335083>

Zhou, R., Wang, Y., Zhang, X., & Wang, C. (2022). Exploration for Countering the Episodic Memory. *Computational Intelligence and Neuroscience*, 2022. <https://doi.org/10.1155/2022/7286186>

