

Artificial Intelligence Breadth Reading List

Required for breadth comprehensive exam in the AI area of interest (Part 1)

1. Janhunen, Tomi & Nimelä, Ilkka. (2016). The Answer Set Programming Paradigm. *AI Magazine*. 37. 13. 10.1609/aimag.v37i3.2671.
2. Lifschitz, V., Schaub, T., & Woltran, S. (2018). Interview with Vladimir Lifschitz. *KI-Künstliche Intelligenz*, 32(2), 213-218.
3. Galceran, E., & Carreras, M. (2013). A survey on coverage path planning for robotics. *Robotics and Autonomous systems*, 61(12), 1258-1276.
4. Kober, J., Bagnell, J. A., & Peters, J. (2013). Reinforcement learning in robotics: A survey. *The International Journal of Robotics Research*, 32(11), 1238-1274.
5. Kotsiantis, S. B., Zaharakis, I., & Pintelas, P. (2007). Supervised machine learning: A review of classification techniques. *Emerging artificial intelligence applications in computer engineering*, 160, 3-24.
6. Paolanti, M., Frontoni, E., (2020). Multidisciplinary Pattern Recognition applications: A review. In *Computer Science Review*, Volume 37, Article 100276, Elsevier ScienceDirect, August 2020.
7. Pascal Hitzler. (2021). A review of the semantic web field. *Commun. ACM* 64, 2, 76–83. DOI:<https://doi.org/10.1145/3397512>
8. Kocijan et al. (2020). A Review of Winograd Schema Challenge Datasets and Approaches. <https://arxiv.org/pdf/2004.13831.pdf>
9. Khan, A., Sohail, A., Zahoor, U., & Qureshi, A. S. (2020). A survey of the recent architectures of deep convolutional neural networks. *Artificial Intelligence Review*, 53(8), 5455-5516.
10. Pouyanfar, S., Sadiq, S., Yan, Y., Tian, H., Tao, Y., Reyes, M. P., ... & Iyengar, S. S. (2018). A survey on deep learning: Algorithms, techniques, and applications. *ACM Computing Surveys (CSUR)*, 51(5), 1-36.
11. Topol, E.J., (2019). High-performance medicine: the convergence of human and artificial intelligence. *Nature Medicine*, 25:44-59.
12. Briganti, G., Le Moine, O., (2020). Artificial Intelligence in Medicine: Today and Tomorrow. *Frontiers in Medicine*, 7:27. doi: 10.3389/fmed.2020.00027.
13. Vaswani A., Shazeer N., Parmar N., Uszkoreit J., Jones L., and Gomez A. N., Kaiser L., and Polosukhin I. (2017). Attention is all you need. <https://arxiv.org/abs/1706.03762>.
14. Marcus, Gary, (2020) The Next Decade in AI: Four Steps Towards Robust Artificial Intelligence. <https://arxiv.org/abs/2002.06177>
15. M. A. Parvez Mahmud , Pritom Kumar Saha ,and Kishor Datta Gupta.(2021). ' Effect of Data Scaling Methods on Machine Learning Algorithms and Model Performance. *Technologies* 2021.
16. Asunci´on Jim´enez-Cordero · Sebasti´an Maldonado.(2021.) Automatic feature scaling and selection for support vector machine classification with functional data.' *Applied Intelligence* 51:161–184.
17. Tenenbaum, Joshua B., et al. "How to grow a mind: Statistics, structure, and abstraction." *science* 331.6022 (2011): 1279-1285.
18. Lake, Brenden M., et al. "Building machines that learn and think like people." *Behavioral and brain sciences* 40 (2017).

