

## References

- [1] Sourek, M.: From Functional Areas towards Metropolitans Structure: Public Space in Sustainable Development Context. *Advanced Engineering Forum*. Trans Tech Publications 2014. vol. 12, pp 176-180, ISBN 978-3-03835-323-2.
- [2] Sourek, M.: *Architecture in Modern Times: Searching for Public Space*. České vysoké učení technické v Praze 2019. ISBN 978-80-01-06576-1.
- [3] Vitruvius, M. P.: *The Ten Books on Architecture*. original title De architectura [libri decem], translation Morris Hicky Morgan. Kessinger Publishing 2005. ISBN 9781417969579.
- [4] Heidegger, M.: *Voll Verdienst, doch dichterisch wohnt / Der Mensch auf dieser Erde. Heidegger und Hölderlin, herausgegeben von Peter Trawny*. Vittorio Klostermann 2000. ISBN 978-3-465-03084-3.
- [5] Ferneyhough, F.: *Liverpool and Manchester railway 1830-1980*. Book Club Assoc. 1980. OCLC 656128257.
- [6] Kahn, R., Dennis, M. A.: Internet. *Encyclopedia Britannica*. 5 Feb. 2024. <https://www.britannica.com/technology/Internet>. (accessed Mar. 16, 2024)
- [7] Perrigo, B.: 'Acts of Kindness Are Really Contagious.' Historian Rutger Bregman Argues for a New Way of Thinking About Humanity. *TIME*. May 22, 2020. <https://time.com/5838900/rutger-bregman-humankind-interview/>. (accessed Mar. 16, 2022)
- [8] Sourek, M.: Industrialize the Architectural Profession at Last to Revitalize It and Make It up to the Urgent Needs of Our Era. *International Journal of Architecture, Arts and Applications*. vol. 8, No. 3, 2022, pp. 121-129. doi: 10.11648/j.ijaaa.20220803.14.
- [9] Sourek, M.: Virtual Twins of Architecture: The singularity of the Profession and the Field. *International Journal of Architecture and Planning*, vol. 2, issue 2, pp. 1-26, 2022. doi: 10.51483/IJARP.2.2.2022.1-26. <https://doi.org/10.51483/IJARP.2.2.2022.1-26>.
- [10] Meet Deep Himmelb(l)au. Our algorithm learns CHBL's semantic characteristics to generate new interpretations and new worlds. *Facebook Watch*. <https://www.facebook.com/watch/?v=1473300746151435> (accessed Mar. 3, 2023)
- [11] Coop Himmelb(l)au, Bolojan, D.: Deep HIMMELB(L)AU. *YouTube*. <https://www.youtube.com/watch?v=8G3jpQQMvWE> (accessed Oct. 5, 2022)
- [12] Leach, N.: *Architecture in the Age of Artificial Intelligence An introduction to AI for architects*. 1st ed. Bloomsbury Visual Arts, London, 2022, p. 104. ISBN 978-1-3501-6551-9.
- [13] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed., W.W.Norton, 2020, p. 11. ISBN 9780393635829.
- [14] What is supervised learning? *IBM*. <https://www.ibm.com/topics/supervised-learning>. (accessed Oct. 30, 2022)
- [15] What is unsupervised learning? *IBM*. <https://www.ibm.com/topics/unsupervised-learning>. (accessed Oct. 30, 2022)
- [16] Jagtap, R.: Understanding the Markov Decision Process (MDP). *built in*. <https://builtin.com/machine-learning/markov-decision-process>. (accessed Nov. 3, 2022)
- [17] Reinforcement learning. *WIKIPEDIA*. [https://en.wikipedia.org/wiki/Reinforcement\\_learning](https://en.wikipedia.org/wiki/Reinforcement_learning). (accessed Oct. 30, 2022)
- [18] Awesome RLHF (RL with Human Feedback). *Opendilab*. <https://github.com/opendilab/awesome-RLHF>. (accessed Mar. 16, 2024)

- [19] Ayush, T.: Understanding Reinforcement Learning from Human Feedback (RLHF): Part 1. *Weights & Biases*. <https://wandb.ai/ayush-thakur/RLHF/reports/Understanding-Reinforcement-Learning-from-Human-Feedback-RLHF-Part-1--VmlldzoyODk5MTIx>. (accessed Nov. 3, 2022)
- [20] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed., W.W.Norton, 2020, p. 199. ISBN 9780393635829.
- [21] Mnih, V., Kavukcuoglu, K., Silver, D., Graves, A., Antonoglou, I., Wierstra, D., Riedmiller, M.: Playing Atari with Deep Reinforcement Learning. *Papers with Code*. [paperswithcode.com/paper/playing-atari-with-deep-reinforcement](https://paperswithcode.com/paper/playing-atari-with-deep-reinforcement) (accessed Nov. 3, 2022)
- [22] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed., W.W.Norton, 2020, p. 206. ISBN 9780393635829.
- [23] *ibid.* p. 207.
- [24] *ibid.* p. 209.
- [25] Imitation Learning. *Papers with Code*. <https://paperswithcode.com/task/imitation-learning> (accessed Apr. 12, 2023)
- [26] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed., W.W.Norton, 2020, p. 222. ISBN 9780393635829.
- [27] Dowat, J.: Internal Covariate Shift: How Batch Normalization can speed up Neural Network Training. *Medium*. Mar 29, 2021. <https://medium.com/analytics-vidhya/internal-covariate-shift-an-overview-of-how-to-speed-up-neural-network-training-3e2a3dcdd5cc>. (accessed Mar. 15, 2023)
- [28] Mikami, A.: Imitation Learning. In: Binder, M.D., Hirokawa, N., Windhorst, U. (eds): Springer, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-540-29678-2\\_2366](https://doi.org/10.1007/978-3-540-29678-2_2366). (accessed Mar. 22, 2023)
- [29] DeMoss, B., Duckworth, P., Hawes, N., Posner, I.: Offline Imitation Learning with World Models. *arXiv*. Cornell University. [arXiv:2302.03086v1](https://arxiv.org/abs/2302.03086v1); <https://doi.org/10.48550/arXiv.2302.03086>. (accessed Mar. 12, 2023)
- [30] Khansari, M., Ho, D., Du, Y., Fuentes, A., Bennice, M., Sievers, N., Kirmani, S., Bai, Y., Jang, E.: Practical Imitation Learning in the Real World via Task Consistency Loss. *arXiv*. Cornell University. [arXiv:2202.01862v2](https://arxiv.org/abs/2202.01862v2); <https://doi.org/10.48550/arXiv.2202.01862>. (accessed Mar. 15, 2024)
- [31] Bansal, T., Pachocki, J., Sidor, S., Sutskever, I., Mordatch, I.: Emergent Complexity via Multi-Agent Competition. *arXiv*. Cornell Univ., 2018. [arXiv:1710.03748v3](https://arxiv.org/abs/1710.03748v3); <https://doi.org/10.48550/arXiv.1710.03748>. (accessed Jan. 15, 2024)
- [32] IQ-Learn: State-of-the-Art Imitation Learning for AI. *Techfinder*. Stanford University. <https://techfinder.stanford.edu/technology/iq-learn-state-art-imitation-learning-ai>. (accessed May 15, 2023)
- [33] Deka, A., Liu, Ch., Sycara, K.: ARC - Actor Residual Critic for Adversarial Imitation Learning. *arXiv*. Cornell Univ., 2022. [arXiv:2206.02095v4](https://arxiv.org/abs/2206.02095v4); <https://doi.org/10.48550/arXiv.2206.02095>. (accessed Jan. 15, 2024)
- [34] Sun, M., Ma, X.: Adversarial Imitation Learning from Incomplete Demonstrations. *arXiv*. Cornell Univ., 2019. <https://arxiv.org/pdf/1905.12310.pdf>. (accessed Jan. 15, 2024)
- [35] Torabi, F., Warnell, G., Stone, P.: Behavioral Cloning from Observation. *arXiv*. Cornell Univ., 2018. [arXiv:1805.01954v2](https://arxiv.org/abs/1805.01954v2); <https://doi.org/10.48550/arXiv.1805.01954>. (accessed Jan. 16, 2024)
- [36] Monteiro, J., Gavenski, N., Granada, R., Meneguzzi, F., Barros, R.: Augmented Behavioral Cloning from Observation. *arXiv*. Cornell Univ., 2020. [arXiv:2004.13529](https://arxiv.org/abs/2004.13529); <https://doi.org/10.48550/arXiv.2004.13529>. (acc. Jan. 16, 2024)
- [37] Gonfalonieri, A.: Inverse Reinforcement Learning Introduction and Main Issues. *TDS*. <https://towardsdatascience.com/inverse-reinforcement-learning-6453b7cdc90d> (accessed Apr. 7, 2023)

- [38] Yang, Q., Zhang, Y., Dai, W., Jialin Pan, S.: Transfer Learning. *Cambridge University Press*, 2020. DOI: <https://doi.org/10.1017/9781139061773>. (accessed Feb. 12, 2024)
- [39] Tormos, A., Garcia-Gasulla, D., Gimenez-Abalos, V., Alvarez-Napagao, S.: When & How to Transfer with Transfer Learning. *arXiv*. Cornell Univ., 2022. [arXiv:2211.04347](https://doi.org/10.48550/arXiv.2211.04347); <https://doi.org/10.48550/arXiv.2211.04347>. (accessed Feb. 12, 2024)
- [40] Hulstaert, L.: Transfer Learning: Leverage Insights from Big Data. *datacamp*, 2018. <https://www.datacamp.com/tutorial/transfer-learning>. (accessed Feb. 12, 2024)
- [41] Ross, S., Gordon, G., Bagnell, D.: A Reduction of Imitation Learning and Structured Prediction to No-Regret Online Learning. *Proceedings of the Fourteenth International Conference on Artificial Intelligence and Statistics. Proceedings of Machine Learning Research*. vol. 15, 2011. pp. 627-635. <https://proceedings.mlr.press/v15/ross11a.html>. (accessed Jan. 22, 2023)
- [42] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed., W.W.Norton, 2020, p. 240-243. ISBN 9780393635829.
- [43] Dong, Q., Dai, D., Zheng, C., Wu, Z., Chang, B., Sun, X., Xu, J., Li, L., Sui, Z.: A Survey on In-context Learning. *arXiv*. Cornell Univ., 2023. [arXiv:2301.00234v3](https://doi.org/10.48550/arXiv.2301.00234); <https://doi.org/10.48550/arXiv.2301.00234>. (accessed Feb. 12, 2024)
- [44] Sigaud, O., Baldassarre, G., Colas, C., Doncieux, S., Duro, R., Perrin-Gilbert, N., Santucci, V. G.: A Definition of Open-Ended Learning Problems for Goal-Conditioned Agents. *arXiv*. Cornell Univ., 2024. [arXiv:2311.00344v3](https://doi.org/10.48550/arXiv.2311.00344); <https://doi.org/10.48550/arXiv.2311.00344>. (accessed Feb. 18, 2024)
- [45] Stooke, A., Mahajan, A., Barros, C., Deck, Ch., Bauer, J., Sygnowski, J., Trebacz, M., Jaderberg, M., Mathieu, M., McAleese, N., Bradley-Schmieg, N., Wong, N., Porcel, N., Raileanu, R., Hughes-Fitt, S., Dalibard, V., Czarnecki, W. M.: Open-Ended Learning Leads to Generally Capable Agents. *arXiv*. Cornell Univ., 2021. [arXiv:2107.12808v2](https://doi.org/10.48550/arXiv.2107.12808); <https://doi.org/10.48550/arXiv.2107.12808>. (accessed Feb. 18, 2024)
- [46] Victor, A. M.: Tree-of-Thought (ToT): A Comprehensive Guide. Medium, 2023. <https://medium.com/aimonks/tree-of-thought-tot-a-comprehensive-guide-c88f60dc1580>. (accessed Feb. 16, 2024)
- [47] Yao, S., Yu, D., Zhao, J., Shafran, I., Griffiths, T. L., Cao, Y., Narasimhan, K.: Tree of Thoughts: Deliberate Problem Solving with Large Language Models. *arXiv*. Cornell Univ., 2023. [arXiv:2305.10601v2](https://doi.org/10.48550/arXiv.2305.10601); <https://doi.org/10.48550/arXiv.2305.10601>. (accessed Feb. 18, 2024)
- [48] A\* Search. *codecademy*, 2023. <https://www.codecademy.com/resources/docs/ai/search-algorithms/a-star-search>. (accessed Feb. 11, 2024)
- [49] Chatterjee, M.: What is A\* Search Algorithm? 2024. *BLOG*. Great Learning, 2024. <https://www.mygreatlearning.com/blog/a-search-algorithm-in-artificial-intelligence/>. (access. Feb. 16, 2024)
- [50] Mitrev, D.: Google Introduced Dreamer: A New Reinforcement Learning Agent. *Neurohive*, 2020. <https://neurohive.io/en/news/google-introduced-dreamer-a-new-reinforcement-learning-agent/>. (accessed Dec. 13, 2023)
- [51] Hafner, D., Lillicrap, T., Ba, J., Norouzi, M.: Dream to Control: Learning Behaviors by Latent Imagination. *arXiv*. Cornell Univ., 2020. [arXiv:1912.01603v3](https://doi.org/10.48550/arXiv.1912.01603); <https://doi.org/10.48550/arXiv.1912.01603>. (accessed Dec. 13, 2023)
- [52] Auto-associative Neural Networks. *GeeksforGeeks*, 2021. <https://www.geeksforgeeks.org/auto-associative-neural-networks/>. (accessed Dec. 15, 2023)
- [53] Pohlen, T., Piot, B., Hester, T., Gheshlaghi Azar, M., Horgan, D., Budden, D., Barth-Maron, G., van Hasselt, H., Quan, J., Večerík, M., Hessel, M., Munos, R., Pietquin, O.: Observe and Look Further: Achieving Consistent Performance on Atari. *arXiv*. Cornell Univ., 2018. [arXiv:1805.11593v1](https://doi.org/10.48550/arXiv.1805.11593); <https://doi.org/10.48550/arXiv.1805.11593>. (accessed Oct. 21, 2023)

- [54] Ecoffet, A., Huizinga, J., Lehman, J. et al.: First return, then explore. *Nature* 590, pp. 580–586 (2021). <https://doi.org/10.1038/s41586-020-03157-9>. (accessed Dec. 28, 2023)
- [55] Balestriero, R., Ibrahim, M., Sobal, V., Morcos, A., Shekhar, S., Goldstein, T., Bordes, F., Bardes, A., Mialon, G., Tian, Y., Schwarzschild, A., Gordon A., Geiping, W. J., Garrido, Q., Fernandez, P., Bar, A., Pirsivash, H., LeCun, H., Goldblum, M.: A Cookbook of Self-Supervised Learning. *arXiv*. Cornell University. April 24, 2023. <https://arxiv.org/abs/2304.12210>, [arXiv:2304.12210](https://arxiv.org/abs/2304.12210), <https://doi.org/10.48550/arXiv.2304.12210> (accessed Apr. 29, 2023)
- [56] Li, X., Shang, J., Das, S., Ryoo, M. S.: Does Self-supervised Learning Really Improve Reinforcement Learning from Pixels? *arXiv*. Cornell Univ. 2023. [arXiv:2206.05266v4](https://arxiv.org/abs/2206.05266); <https://doi.org/10.48550/arXiv.2206.05266>. (accessed Oct. 29, 2023)
- [57] Video generation models as world simulators. *OpenAI/Research*. 2024. <https://openai.com/research/video-generation-models-as-world-simulators>. (accessed Feb. 29, 2024)
- [58] Rabinowitz, N. C., Perbet, F., Song, H. F., Zhang, Ch., Eslami, S. M. A., Botvinick, M.: Machine Theory of Mind. *arXiv*. Cornell Univ., 2019. [arXiv:1802.07740v2](https://arxiv.org/abs/1802.07740); <https://arxiv.org/pdf/1802.07740.pdf>. (accessed Oct. 29, 2023)
- [59] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, pp. 23-48. ISBN 978-3-0356-2400-7.
- [60] ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, NEURAL NETWORKS. *Datamind*. [https://www.datamind.cz/en/services/Artificial intelligence machine learning deep neural networks?msclkid=83db14a2aa13173a1045708f78459aa3](https://www.datamind.cz/en/services/Artificial-intelligence-machine-learning-deep-neural-networks?msclkid=83db14a2aa13173a1045708f78459aa3). (accessed Nov. 3, 2023)
- [61] Barreto, S.: Differences Between Backpropagation and Feedforward Networks. *Baeldung*. <https://www.baeldung.com/cs/neural-networks-backprop-vs-feedforward> (accessed Nov. 5, 2023)
- [62] Burke, J.: Successful generative AI examples worth noting. *Tech Accelerator*. <https://www.techtarget.com/searchenterpriseai/tip/Successful-generative-AI-examples-worth-noting>. (accessed Sept. 15, 2023)
- [63] Recursive neural network. WIKIPEDIA. [https://en.wikipedia.org/wiki/Recursive\\_neural\\_network](https://en.wikipedia.org/wiki/Recursive_neural_network). (accessed Nov. 7, 2023)
- [64] Convolutional neural network. WIKIPEDIA. [https://en.wikipedia.org/wiki/Convolutional\\_neural\\_network](https://en.wikipedia.org/wiki/Convolutional_neural_network). (accessed Nov. 5, 2022)
- [65] *IMAGENET*. <https://www.image-net.org/> (accessed Nov. 5, 2022)
- [66] Introduction to Capsule Neural Networks. *GeeksforGeeks*. 2024. <https://www.geeksforgeeks.org/capsule-neural-networks-ml/>. (accessed Mar. 12, 2024)
- [67] Liu, Z., Zhou, J.: *Introduction to Graph Neural Networks*. Springer International Publishing, 2020. ISBN 9783031004599.
- [68] Jost, Z.: Foundations of Graph Neural Networks. *Welcome AI Overlords*. <https://www.graphneuralnets.com/p/full-course>. (accessed Sept. 8, 2023)
- [69] Boesch, G.: Guide to Generative Adversarial Networks (GANs) in 2024. *viso.ai*. <https://viso.ai/deep-learning/generative-adversarial-networks-gan/>. (accessed Mar. 18, 2024)
- [70] Wood, T.: Generative Adversarial Network. Deepai. <https://deepai.org/machine-learning-glossary-and-terms/generative-adversarial-network>. (accessed Nov. 21, 2023)
- [71] Leach, N.: *Architecture in the Age of Artificial Intelligence An introduction to AI for architects*. Bloomsbury Visual Arts, London, 2022. pp. 26-64. ISBN 978-1-3501-6551-9.
- [72] Chakraborty, T., Reddy K. S. U., Naik, S. M., Panja, M., Manvitha, B.: Ten Years of Generative Adversarial Nets (GANs): A survey of the state-of-the-art. *arXiv*. Cornell University, 2023. <https://arxiv.org/pdf/2308.16316.pdf>. (accessed Sept. 12, 2023)

- [73] Saxena, D., Cao, J.: Generative Adversarial Networks (GANs): Challenges, Solutions, and Future Directions. *arXiv*. Cornell University, 2020. <https://arxiv.org/ftp/arxiv/papers/2005/2005.00065.pdf>. (accessed Oct. 2, 2023)
- [74] Yinka-Banjo, Ch., Ugot, O-A.: A review of generative adversarial networks and its application in cybersecurity. *Springer Link*. 2019. <https://link.springer.com/article/10.1007/s10462-019-09717-4>. (accessed Oct. 4, 2023)
- [75] Rehman, J.: Advantages and disadvantages of generative adversarial networks (GAN). IT Release. 2020. [https://www.itrelease.com/2020/06/advantages-and-disadvantages-of-generative-adversarial-networks-gan/#google\\_vignette](https://www.itrelease.com/2020/06/advantages-and-disadvantages-of-generative-adversarial-networks-gan/#google_vignette). (accessed Oct. 4, 2023)
- [76] What's Next for GANs: Latest Techniques and Applications. *Sciforce/Medium*. 2022. <https://medium.com/sciforce/whats-next-for-gans-latest-techniques-and-applications-3be06a7e5ab9>. (accessed Oct. 8, 2023)
- [77] Moghadam, M. M., Boroomand, B., Jalali, M., Zareian, A., DaeiJavad, A., Manshaei, M. H., Krunz, M.: Game of GANs: Game-Theoretical Models for Generative Adversarial Networks. *arXiv*. Cornell University, 2022. [arXiv:2106.06976v3](https://arxiv.org/abs/2106.06976v3); <https://doi.org/10.48550/arXiv.2106.06976>. (accessed Jan. 18., 2023)
- [78] Sampath, V., Maurtua, I., Aguilar Martín, J. J. et al.: A survey on generative adversarial networks for imbalance problems in computer vision tasks. *Journal of Big Data* 8, 27 (2021). <https://doi.org/10.1186/s40537-021-00414-0>. (accessed Jan. 18., 2023)
- [79] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, pp. 112-146. ISBN 978-3-0356-2400-7.
- [80] Comparison between Diffusion Models vs GANs. MLK. 2023. <https://machinelearningknowledge.ai/comparison-between-diffusion-models-vs-gans-generative-adversarial-networks/>. (accessed Nov. 6., 2023)
- [81] Bouchard, L.: How Stable Diffusion works? Latent Diffusion Models Explained. *Louis-François Bouchard, aka What's AI*. 2022. <https://www.louisbouchard.ai/latent-diffusion-models/>. (accessed Jan. 16., 2023)
- [82] Recursive neural network. WIKIPEDIA. [https://en.wikipedia.org/wiki/Recursive\\_neural\\_network](https://en.wikipedia.org/wiki/Recursive_neural_network). (accessed Nov. 7, 2022)
- [83] Schmidt, R. M.: Recurrent Neural Networks (RNNs): A gentle Introduction and Overview. *arXiv*. Cornell University, 2019. [arXiv:1912.05911v1](https://arxiv.org/abs/1912.05911v1); <https://doi.org/10.48550/arXiv.1912.05911>. (accessed Nov. 7, 2022)
- [84] Karimi, A.: Recurrent vs. Recursive Neural Networks in Natural Language Processing. *Baeldung*. 2024. <https://www.baeldung.com/cs/networks-in-nlp>. (accessed Mar. 22, 2024)
- [85] Deep Learning | Introduction to Long Short-Term Memory. *GeeksforGeeks*. 2023. <https://www.geeksforgeeks.org/deep-learning-introduction-to-long-short-term-memory/>. (accessed Mar. 12, 2024)
- [86] Echo State Network – an overview. *Geeksfor Geeks*. 2023. <https://www.geeksforgeeks.org/echo-state-network-an-overview/>. (accessed Mar. 12, 2024)
- [87] Difference between Recursive and Recurrent Neural Network. *GeeksForGeeks*. 2024. <https://www.geeksforgeeks.org/difference-between-recursive-and-recurrent-neural-network/>. (accessed Mar. 22, 2024)
- [88] Bhargav, N.: Radial Basis Function. *Baeldung*. 2024. <https://www.baeldung.com/cs/rbf-neural-networks>. (accessed Mar. 12, 2024)
- [89] Stewart, M.: GANs vs, Autoencoders: Comparison of Deep Generative Models. *Towards Data Science*. <https://towardsdatascience.com/gans-vs-autoencoders-comparison-of-deep-generative-models-985cf15936ea> (accessed Nov. 5, 2022)

- [90] What are the fundamental differences between VAE and GAN for image generation? *StackExchange*. <https://ai.stackexchange.com/questions/25601/what-are-the-fundamental-differences-between-vae-and-gan-for-image-generation>. (accessed Sept. 15, 2022)
- [91] Variational autoencoder. *WIKIPEDIA*. [https://en.wikipedia.org/wiki/Variational\\_autoencoder](https://en.wikipedia.org/wiki/Variational_autoencoder). (accessed Sept. 15, 2022)
- [92] Kingma, D. P., Welling, M.: An Introduction to Variational Autoencoders. *arXiv*. Cornell University, 2019. arXiv:1906.02691v3; <https://arxiv.org/abs/1906.02691>. (accessed Sept. 16, 2022)
- [93] Hayashi, K., Sasagawa, A., Sakaino, S., Tsuji, T.: A New Autoregressive Neural Network Model with Command Compensation for Imitation Learning Based on Bilateral Control. *ResearchGate*. 2021. [https://www.researchgate.net/publication/350104951\\_A\\_New\\_Autoregressive\\_Neural\\_Network\\_Model\\_with\\_Command\\_Compensation\\_for\\_Imitation\\_Learning\\_Based\\_on\\_Bilateral\\_Control](https://www.researchgate.net/publication/350104951_A_New_Autoregressive_Neural_Network_Model_with_Command_Compensation_for_Imitation_Learning_Based_on_Bilateral_Control). (accessed Sept. 17, 2022)
- [94] Bayarov Ahmedov, H., Yi, D., Sui, J.: Brain-Inspired Deep Imitation Learning for Autonomous Driving Systems. *arXiv*. Cornell University, 2021. arXiv:2107.14654v1; <https://doi.org/10.48550/arXiv.2107.14654>. (accessed Mar. 20, 2024)
- [95] Kim, H., Ohmura, Y., Kuniyoshi, Y.: Transformer-based deep imitation learning for dual-arm robot manipulation. *arXiv*. Cornell University, 2024. arXiv:2108.00385v2; <https://doi.org/10.48550/arXiv.2108.00385>. (accessed Mar. 20, 2024)
- [96] Correia, de Santana, A., Colombini, E. L.: Neural Attention Models in Deep Learning: Survey and Taxonomy. *arXiv*. Cornell University, 2021. <https://arxiv.org/pdf/2112.05909>. (accessed Mar. 2, 2024)
- [97] Razzaq, W., Mo, H.: Neural Circuit Policies Imposing Visual Perceptual Autonomy. *Neural Processing Letters 55(7)/ResearchGate*. 2023. DOI: [10.1007/s11063-023-11194-4](https://doi.org/10.1007/s11063-023-11194-4). [https://www.researchgate.net/publication/368752388\\_Neural\\_Circuit\\_Policies\\_Imposing\\_Visual\\_Perceptual\\_Autonomy](https://www.researchgate.net/publication/368752388_Neural_Circuit_Policies_Imposing_Visual_Perceptual_Autonomy). (accessed Mar. 12, 2024)
- [98] Kemptur, A., Paugam, F., Pinsard, B., Sainath, P., Le Clei, M., Boyle, J., Jerbi, K., Bellec. P.: Behavioral Imitation with Artificial Neural Networks Leads to Personalized Models of Brain Dynamics During Videogame Play. *BioRxiv*. 2023. doi: <https://doi.org/10.1101/2023.10.28.564546>. <https://www.biorxiv.org/content/10.1101/2023.10.28.564546v1>. (accessed Mar. 10, 2024)
- [99] Firth-Butterfield, K.: These were the biggest AI developments in 2022. Now we must decide how to use them. *World Economic Forum*. <https://www.weforum.org/agenda/2023/01/davos23-biggest-ai-developments-how-to-use-them>. (accessed Feb.. 19, 2023)
- [100] Gozallo-Birzuela, R., Garrido-Merchan, E. C.: GPT is not all you need. A State of the Art Review of large Generative AI models. *arXiv*. Cornell University. <https://arxiv.org/abs/2301.04655>. (accessed Jan. 29, 2023)
- [101] LayerDiffuse. *GitHub*. 2023. <https://github.com/layerdiffusion/LayerDiffuse>. (accessed Mar. 23, 2024)
- [102] What are Foundation Models? *aws*. <https://aws.amazon.com/what-is/foundation-models/>. (accessed Aug. 2, 2023)
- [103] Nandi, B.: Canva is outdated. *@LearnWithBishal, X*. 2024. <https://x.com/LearnWithBishal/status/1766466763783364796?t=ZieTMInTrsQWDAGxTxKmWQ&s=09>. (accessed Mar. 18, 2024)
- [104] Zyer, E.: 60 AI Tools to Start your Profitable Online Business in 2024. *@eyishazyer, X*. 2024. <https://x.com/eyishazyer/status/1765687546305184128?t=MeNHWSVM5SILktZxzYliYA&s=09>. (accessed Mar. 16, 2024)
- [105] Chetan, A.: Forget ChatGPT, it costs \$20/M to use. *@AdarshChetan, X*. 2024. , <https://x.com/AdarshChetan/status/1768505452642369612?t=I2YWPu3TSjcarZsTMNZmow&s=09>. (accessed Mar. 16, 2024)

- [106] Hamza, K.: Here is how to start a faceless YouTube Channel: @Whizz\_ai, X. 2024. [https://x.com/Whizz\\_ai/status/1764886228896247951?t=3J9Y4SdrKatTSqhStJZ7Rg&s=09](https://x.com/Whizz_ai/status/1764886228896247951?t=3J9Y4SdrKatTSqhStJZ7Rg&s=09). (accessed Mar. 17, 2024)
- [107] Introducing the next generation of Claude. *Anthropic*. 2024. <https://www.anthropic.com/news/claude-3-family>. (accessed Mar. 12, 2024)
- [108] LMSYS Chatbot Arena Leaderboard. *Hugging Face*. 2024. [https://huggingface.co/spaces/lmsys/chatbot-arena-leaderboard?utm\\_source=substack&utm\\_medium=email](https://huggingface.co/spaces/lmsys/chatbot-arena-leaderboard?utm_source=substack&utm_medium=email). (accessed Mar. 31, 2024)
- [109] Rahman, R.: Forget ChatGP. @heyronir, X. 2024. <https://twitter.com/heyronir/status/1764886267647709361>. (accessed Mar. 9, 2024)
- [110] Anthropic: *Model Card and Evaluations for Claude Models*. 2023. <https://www-cdn.anthropic.com/files/4zrzovbb/website/bd2a28d2535bfb0494cc8e2a3bf135d2e7523226.pdf>. (accessed Mar. 12, 2024)
- [111] Claude (language model). *Wikipedia*. 2024. [https://en.wikipedia.org/wiki/Claude\\_%28language\\_model%29](https://en.wikipedia.org/wiki/Claude_%28language_model%29). (accessed Mar. 14, 2024)
- [112] Frontier AI in your hands. *Mistral AI*. 2023. <https://mistral.ai>. (accessed Feb. 15, 2024)
- [113] Mixtral of experts. *Mistral AI*. 2023. <https://mistral.ai/news/mixtral-of-experts/>. (accessed Feb. 15, 2024)
- [114] Heath, R., Fried, I.: Mistral, it's French for AI. *Axios AI+*. 2024. [https://www.axios.com/newsletters/axios-ai-plus-8c79d014-d04c-4026-97ab-a8fa913b4489.html?utm\\_source=newsletter&utm\\_medium=email&utm\\_campaign=newsletter\\_axioslogin&stream=top](https://www.axios.com/newsletters/axios-ai-plus-8c79d014-d04c-4026-97ab-a8fa913b4489.html?utm_source=newsletter&utm_medium=email&utm_campaign=newsletter_axioslogin&stream=top). (accessed Mar. 9, 2024)
- [115] David, E.: Meta is planning a July release for a “looser” Llama 3. *The Verge*. 2024. <https://www.theverge.com/2024/2/28/24085755/meta-is-planning-a-july-release-for-a-looser-llama-3>. (accessed Mar. 8, 2024)
- [116] Bilenko, M.: Introducing Phi-3: Redefining what's possible with SLMs. *Azure*. <https://azure.microsoft.com/en-us/blog/introducing-phi-3-redefining-whats-possible-with-slms/>. (accessed Apr. 25, 2024)
- [117] Microsoft GenAI research team: Phi-3 Technical Report: A Highly Capable Language Model Locally on Your Phone. *arXiv*. Cornell University, 2024. arXiv:2404.14219v2; <https://export.arxiv.org/abs/2404.14219>. (accessed Apr. 26, 2024)
- [118] Bishop, Ch. M.: *Pattern Recognition and Machine Learning*. Springer. ISBN 0-387-31073-8.
- [119] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed, W.W.Norton, 2020, p. 126. ISBN 9780393635829.
- [119] stylemania.it: Před Chat GPT: zde jsou průkopníci, kteří připravili půdu pro umělou inteligenci. *Style Mania*. <https://www.msn.com/cs-cz/zpravy/other/před-chat-gpt-zde-jsou-průkop-níci-kteří-přip-ravili-půdu-pro-umělou-inteligenci/ss-AA18T6Hs?ocid=msedgdhp&pc=U531&cvid=-b90b042fad6c4cada69739b51d885451&ei=59#image=11> (accessed Mar. 20, 2023)
- [120] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed. W.W.Norton, 2020, pp. 28-64. ISBN 9780393635829.
- [121] Generative AI for Games Market Map. X. 2024. <https://twitter.com/ashnobe/status/1595793418932097024?t=qQ7Ppu1D-X-27kmqjVnmDg&s=09>. (accessed Mar. 20, 2023)
- [122] Your 3D designs on lifelike AI-models. *LALALAND*. 2023. <https://lalaland.ai/>. (accessed Oct. 22, 2023)

- [123] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed. W.W.Norton, 2020, pp. 28-64. ISBN 9780393635829.
- [124] Ngila, F.: The GitHub of AI is named after an emoji—and Microsoft has its fingers in it already. *QUARTZ*. 2024. [file:///C:/Users/uzivatel/Desktop/texty 2020/AI 2023/CEJ 2024/next%20wave/A%20startup%20called%20Hugging%20Face%20is%20becoming%20the%20GitHub%20of%20AI.pdf](file:///C:/Users/uzivatel/Desktop/texty%202020/AI%202023/CEJ%202024/next%20wave/A%20startup%20called%20Hugging%20Face%20is%20becoming%20the%20GitHub%20of%20AI.pdf). (accessed Mar. 15, 2024)
- [125] AI Blog Creator: Perplexity AI Where knowledge begins. *DailyAIBlogs*. 2024. <https://www.dailyaiblogs.com/perplexity-ai/>. (accessed Dec. 15, 2023)
- [126] Jin, B., Krppa, M.: AI Search Startup Perplexity Set to Double Valuation to \$1 Billion. *The Wall Street Journal*. 2024. <https://www.livemint.com/ai/artificial-intelligence/ai-search-startup-perplexity-set-to-double-valuation-to-1-billion-11709644470097.html>. (accessed Mar. 17, 2024)
- [127] Daniel Gross. 2024. [https://dcgross.com/?utm\\_source=substack&utm\\_medium=email](https://dcgross.com/?utm_source=substack&utm_medium=email). (accessed Mar 31, 2024)
- [128] Copilot. *Microsoft*. 2023. <https://www.microsoft.com/en-us/microsoft-copilot>. (accessed Nov. 5, 2023)
- [129] The world's most widely adopted AI developer tool. *Github*. 2022. <https://github.com/features/copilot>. (accessed Nov. 5, 2023)
- [130] What is an AI Copilot? *Salesforce Asia Blog*. 2023. <https://www.salesforce.com/ap/blog/ai-copilot/>. (accessed Mar. 6, 2024)
- [131] Poda, M.: What is an AI copilot? *Moveworks Blog*. 2023. <https://www.moveworks.com/us/en/resources/blog/what-is-an-ai-copilot>. (accessed Mar. 6, 2024)
- [132] Pykes, K.: How to Run Stable Diffusion. *Datacamp*. 2023. <https://www.datacamp.com/tutorial/how-to-run-stable-diffusion>. (accessed Mar. 6, 2024)
- [133] Hossain, A.: AI Prompt Engineers Can Earn \$300k Salaries. *Helping you to make money with AI, Tech Tools & Digital Skills*, X. 2024. [https://www.linkedin.com/posts/alaminpro\\_ai-prompt-engineers-can-earn-300k-salaries-activity-7176611454949720064-Ajt5/?utm\\_source=share&utm\\_medium=member\\_android](https://www.linkedin.com/posts/alaminpro_ai-prompt-engineers-can-earn-300k-salaries-activity-7176611454949720064-Ajt5/?utm_source=share&utm_medium=member_android). (accessed Mar. 19, 2024)
- [134] Where creativity knows no bounds. *Musavir.ai*. 2023. <https://musavir.ai/>. (accessed Jan. 22, 2024)
- [135] Cintas, A.: Ideogram has released a new 1.0 version of its text-to-image AI model, which enhances photorealism and text rendering. *@dr\_cintas*, X. 2024. [https://twitter.com/dr\\_cintas/status/1763250401413881994?t=LpfdZoIWXDVjyiXW9Y0Ycw&s=09](https://twitter.com/dr_cintas/status/1763250401413881994?t=LpfdZoIWXDVjyiXW9Y0Ycw&s=09). (accessed Jan. 16, 2024)
- [136] Bringing AI to Excel—4 new features announced today at Ignite. *Microsoft*. 2018. <https://www.microsoft.com/en-us/microsoft-365/blog/2018/09/24/bringing-ai-to-excel-4-new-features-announced-today-at-ignite/>. (accessed Mar. 12, 2024)
- [137] Welcome to Windows. *Microsoft*. 2024. <https://www.microsoft.com/en-us/windows/?r=1>. (accessed Mar. 4, 2024)
- [138] Devin. *EASY WITH AI*. 2024. <https://easywithai.com/ai-developer-tools/devin/>. (accessed Mar. 4, 2024)
- [139] Nouri, S.: TOP 200 Generative AI Tools 2023!. LinkedIn. 2024. [https://www.linkedin.com/posts/stevenouri\\_gen-ai-tools-ugcPost-7149239580200697856uVj4/?utm\\_source=share&utm\\_medium=member\\_android](https://www.linkedin.com/posts/stevenouri_gen-ai-tools-ugcPost-7149239580200697856uVj4/?utm_source=share&utm_medium=member_android). (accessed Feb. 14, 2024)
- [140] Pichai, S.: An important next step on your AI journey. *Google The Keyword*. <https://blog.google/technology/ai/bard-google-ai-search-updates/>. (accessed Apr. 2, 2023)



- [141] Martin, B.: Investors didn't think much of Baidu's ChatGPT – competitor debut, wiping \$3 billion off the tech giant's value – Fortune. *Inferse*. <https://www.inferse.com/484983/investors-didnt-think-much-of-baidus-chatgpt-competitor-debut-wiping-3-billion-off-the-tech-giants-value-fortune/>. (accessed Apr. 16, 2023)
- [142] Kilian, K.: Čína má odpověď na ChatGPT. A ne jednu, další chatbot ukazuje Alibaba. *Živě*. <https://www.zive.cz/clanky/cina-ma-odpoved-na-chatgp-a-ne-jednu-dalsi-ai-chatbot-ukazuje-alibaba/sc-3-a-221685/default.aspx>. (accessed Apr. 16, 2023)
- [143] Urban, P.: Amazon má továrnu na AI a chatboty. Na umělé inteligenci u něj pracuje víc lidí než u Microsoftu nebo Googlu. *Connect!* <https://connect.zive.cz/clanky/amazon-bedrock-titan-generativni-ai/sc-320-a-221729/default.aspx>. (accessed Apr. 16, 2023)
- [144] Coldewey, D.: Amazon doubles down on Anthropic, completing its planned \$4B investment. *TechCrunch*. 2024. [https://techcrunch.com/2024/03/27/amazon-doubles-down-on-anthropic-completing-its-planned-4b-investment/?utm\\_source=aitoolreport.beehiiv.com&utm\\_medium=newsletter&utm\\_campaign=amazon-fights-openai-with-4b-anthropic-funding](https://techcrunch.com/2024/03/27/amazon-doubles-down-on-anthropic-completing-its-planned-4b-investment/?utm_source=aitoolreport.beehiiv.com&utm_medium=newsletter&utm_campaign=amazon-fights-openai-with-4b-anthropic-funding). (accessed Mar. 30, 2024)
- [145] Wiggers, K.: What is Elon Musk's Grok chatbot and how does it work? *TechCrunch*. 2024. <https://techcrunch.com/2024/03/29/what-is-elon-musks-grok-chatbot-and-how-does-it-work/>. (accessed Mar. 30, 2024)
- [146] Wiggers, K.: Databricks spent \$10M on new DBRX generative AI model. *TechCrunch*. 2024. [https://techcrunch.com/2024/03/27/databricks-spent-10m-on-a-generative-ai-model-that-still-cant-beat-gpt-4/?utm\\_source=aitoolreport.beehiiv.com&utm\\_medium=newsletter&utm\\_campaign=amazon-fights-openai-with-4b-anthropic-funding](https://techcrunch.com/2024/03/27/databricks-spent-10m-on-a-generative-ai-model-that-still-cant-beat-gpt-4/?utm_source=aitoolreport.beehiiv.com&utm_medium=newsletter&utm_campaign=amazon-fights-openai-with-4b-anthropic-funding). (accessed Mar. 31, 2024)
- [147] Introducing the GPT Store. *OpenAI blog*. 2024. <https://openai.com/blog/introducing-the-gpt-store>. (accessed Feb. 23, 2024)
- [148] Rahman, R.: Google Maps just got a HUGE AI upgrade. *@heyronir*, X. 2024. <https://twitter.com/heyronir/status/1766339186611953889?t=pcjnXaHsACuVQ9tYOuURsA&s=09>. (accessed Mar. 12, 2024)
- [149] New Maps updates: Immersive View for routes and other AI features. *Google The Keyword*. 2024. <https://blog.google/products/maps/google-maps-october-2023-update/>. (accessed Mar. 12, 2024)
- [150] Unleash your Creativity with the power of Leonardo Ai. *Leonardo Ai*. <https://leonardo.ai/>. (accessed Feb. 20, 2024)
- [151] Rishabh: Google has introduced VideoPoet, and it's MIND-BLOWING. *@Rixhabh*, X. 2024. [https://twitter.com/Rixhabh/status/1770052606293086516?t=elred\\_nCdYp6qcpcCq53Dg&s=09](https://twitter.com/Rixhabh/status/1770052606293086516?t=elred_nCdYp6qcpcCq53Dg&s=09). (accessed Feb. 20, 2024)
- [152] Advancing creativity with artificial intelligence. *runway*. <https://runwayml.com>. (accessed Feb. 17, 2024)
- [153] Sora. 2024. <https://soraai.ai/>. (accessed Mar. 16, 2024)
- [154] Mishra, S.: Google just launched LUMIERE, and it's crazy. *@heyshrutimishra*, X. 2024. [https://twitter.com/heyshrutimishra/status/1750492116109996496?t=dHXpBsHiD2cWkue\\_up31bw&s=09](https://twitter.com/heyshrutimishra/status/1750492116109996496?t=dHXpBsHiD2cWkue_up31bw&s=09). (accessed Mar. 17, 2024)
- [155] Cintas, A.: First Sora AI videos, and now Emo turns your images into talking or even singing videos. *@dr\_cintas*, X. 2024. [https://twitter.com/dr\\_cintas/status/1762864281647817123?t=WZj6WIZkuJATYIRvoLMkXA&s=09](https://twitter.com/dr_cintas/status/1762864281647817123?t=WZj6WIZkuJATYIRvoLMkXA&s=09). (accessed Mar. 7, 2024)

- [156] Omer Bar-Tal, O., Chefer, H., Tov, O., Herrmann, Ch., Paiss, R., Zada, S., Ephrat, A., Hur, J., Liu, G., Raj, A., Li, Y., Rubinstein, M., Michaeli, T., Wang, O., Sun, D., Dekel, T., Mosseri, I.: Lumiere: A Space-Time Diffusion Model for Video Generation. *arXiv*. Cornell University. 2024. [arXiv:2401.12945v2](https://arxiv.org/abs/2401.12945v2); <https://doi.org/10.48550/arXiv.2401.12945>. (accessed Mar. 20, 2024)
- [157] Tian, L., Wang, Q., Zhang, B., Bo, L.: EMO: Emote Portrait Alive - Generating Expressive Portrait Videos with Audio2Video Diffusion Model under Weak Conditions. *arXiv*. Cornell University. 2024. [arXiv:2402.17485v1](https://arxiv.org/abs/2402.17485v1); <https://doi.org/10.48550/arXiv.2402.17485>; <https://humanaigc.github.io/emote-portrait-alive/>. (accessed Mar. 7, 2024)
- [158] Creating video from text. *OpenAI*. 2024. <https://openai.com/sora>. (accessed Mar. 20, 2024)
- [159] OpenAI: Navigating the Challenges and Opportunities of Synthetic Voices. *Blog Open AI*. 2024. <https://openai.com/blog/navigating-the-challenges-and-opportunities-of-synthetic-voices#OpenAI>. (accessed Mar. 30, 2024)
- [160] Xu, S., Chen, G., Guo, Y., Yang, J., Li, Ch., Zang, Z., Zhang, Y., Tong, X., Guo, B.: VASA-1: Lifelike Audio-Driven Talking Faces Generated in Real Time. *arxiv*. Cornell University, 2024. [arXiv:2404.10667v1](https://arxiv.org/abs/2404.10667v1); <https://doi.org/10.48550/arXiv.2404.10667>. (accessed Apr. 20, 2024)
- [161] Perez, C. E.: Sam Altman reveals in an interview with Bill Gates (2 days ago) what's coming up in GPT-4.5 (or GPT-5). *@IntuitMachine*, X. 2024. [https://twitter.com/IntuitMachine/status/1746278269165404164?t=ikx\\_sw5O7m28-Xya6jBfVA&s=09](https://twitter.com/IntuitMachine/status/1746278269165404164?t=ikx_sw5O7m28-Xya6jBfVA&s=09). (accessed Mar. 17, 2024)
- [162] Top 6 AI 3D Model Generators: Explore New Dimensions of Creativity. *Viverse*. 2024. [https://www.news.viverse.com/post/top-6-ai-3d-model-generators-explore-new-dimensions-of-creativity?wpsrc=Email&wpsnetn=marketo&wpcn=en\\_viverse\\_email94\\_021624&wpcid=6930&utm\\_source=crm&utm\\_medium=email&utm\\_campaign=en\\_viverse\\_email94\\_021624&utm\\_content=cta03&mkt\\_k=MDU4LVNVVv04OTQAAAGRUXzluyS626xTddCcObMQ14XPBnQ-woViSi7m7Ec2yGDw261YR7v9PFcmh4AHkPH12hYIWyHF\\_lwmjAnTVzThi0UWVMeNxMxy5X-ro8WgCRwjKa44](https://www.news.viverse.com/post/top-6-ai-3d-model-generators-explore-new-dimensions-of-creativity?wpsrc=Email&wpsnetn=marketo&wpcn=en_viverse_email94_021624&wpcid=6930&utm_source=crm&utm_medium=email&utm_campaign=en_viverse_email94_021624&utm_content=cta03&mkt_k=MDU4LVNVVv04OTQAAAGRUXzluyS626xTddCcObMQ14XPBnQ-woViSi7m7Ec2yGDw261YR7v9PFcmh4AHkPH12hYIWyHF_lwmjAnTVzThi0UWVMeNxMxy5X-ro8WgCRwjKa44). (accessed Mar. 30, 2024)
- [163] Introducing Figure-1. *Figure*. <https://www.figure.ai>. (accessed Mar. 16, 2024)
- [164] Adcock, B.: 2024 will be the year of AI and Robotics. Figure, Google DeepMind, Apple, Alibaba, Microsoft, and OpenAI have all made major progress over the past weeks. Here's everything you need to know. *X (twitter.com)*. 2024. [https://twitter.com/adcock\\_brett/status/1744404862224290253?t=umf\\_MLJzYePaV92sajLRyg&s=09](https://twitter.com/adcock_brett/status/1744404862224290253?t=umf_MLJzYePaV92sajLRyg&s=09). (accessed Mar. 15, 2024)
- [165] Shaping the future of advanced robotics. *Google DeepMind*. 2024. [https://deepmind.google/discover/blog/shaping-the-future-of-advanced-robotics/?utm\\_source=twitter&utm\\_medium=social](https://deepmind.google/discover/blog/shaping-the-future-of-advanced-robotics/?utm_source=twitter&utm_medium=social). (accessed Jan. 10, 2024)
- [166] Nvidia Project GR00T Generalist Robot 00 Technology. *NVIDIA DEVELOPER*. 2024. <https://developer.nvidia.com/project-gr00t>. (accessed Mar. 30, 2024)
- [167] Nvidia Announces Project GR00T Foundation Model for Humanoid Robots and Major Isaac Robotics Platform Update. *NVIDIA NEWSROOM*. 2024. <https://Nvidianews.Nvidia.com/news/foundation-model-isaac-robotics-platform>. (accessed Mar. 30, 2024)
- [168] Nvidia Announces Project GR00T Foundation Model For Humanoid Robots And Major Isaac Robotics Platform Update. *Nvidia Investors*. 2024. <https://investor.Nvidia.com/news/press-release-details/2024/NVIDIA-Announces-Project-GR00T-Foundation-Model-for-Humanoid-Robots-and-Major-Isaac-Robotics-Platform-Update/default.aspx>. (accessed Mar. 30, 2024)

- [169] Krizhevsky, A., Sutskever, I., Hinton, G.: ImageNet classification with deep convolutional neural networks. *Computer Science, Communications of the ACM*. Dec. 3, 2012. doi:10.1145/3065386. <https://www.semanticscholar.org/paper/ImageNet-classification-with-deep-convolutional-Krizhevsky-Sutskever/abd1c342495432171beb7ca8fd9551ef13cbd0ff> (accessed Feb 23, 2023)
- [170] Google Scholar [https://scholar.google.com/citations?view\\_op=view\\_citation&hl=en&user=xezhJcAAAAJ&citation\\_for\\_view=xegzhJcAAAAJ:u5HHmVD\\_uO8C](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=xezhJcAAAAJ&citation_for_view=xegzhJcAAAAJ:u5HHmVD_uO8C) (accessed Feb 28, 2023)
- [171] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed, W.W.Norton, 2020, p. 126. ISBN 9780393635829.
- [172] Campbell, M., Hoane, A. J. Jr., Hsu, F.: Deep Blue. *Artificial Intelligence*. Elsevier. vol. 134, issues 1-2, Jan. 2002, pp. 57-83. [https://doi.org/10.1016/S0004-3702\(01\)00129-1](https://doi.org/10.1016/S0004-3702(01)00129-1) (accessed Feb. 16, 2023)
- [173] Christian B.: *The Alignment Problem: Machine Learning and Human Values.* 1st ed. W.W.Norton, 2020, pp. 241-243. ISBN 9780393635829.
- [174] AlphaGo Zero: Starting from scratch. *Google DeepMind*. [deepmind.com/blog/alphago-zero-starting-from-scratch](https://deepmind.com/blog/alphago-zero-starting-from-scratch) (accessed Feb. 1, 2023)
- [175] AlphaGo. *Google DeepMind*. <https://www.deepmind.com/research/highlighted-research/alphago> (accessed Jan 21, 2023)
- [176] Silver, D., Schrittwieser, J., Simonyan, K., Antonoglou, I., Huang, A., Guez, A., Hubert, T., Baker, L., Lai, M., Bolton, A., Chen, Y., Lillicrap, T., Fan, H., Sifre, L., Driessche, G. v. d., Graepel, T., Hassabis, D.: (19 October 2017). Mastering the game of Go without human knowledge (PDF). *Nature*. 550 (7676), pp. 354–359. Bibcode:2017Natur.550..354S. doi:10.1038/nature24270. ISSN 0028-0836. PMID 29052630. S2CID 205261034. closed access.
- [177] Ferguson, N.: Resistance Is Futile, But Maybe Not With AI. *Bloomberg*. 2024. <https://www.bloomberg.com/opinion/articles/2024-03-24/can-sam-altman-make-ai-smart-enough-to-answer-these-6-questions?srnd=undefined>. (accessed Mar. 30, 2024)
- [178] Christian B.: *The Alignment Problem: Machine Learning and Human Values.* 1st ed. W.W.Norton, 2020, p. 109. ISBN 9780393635829.
- [179] Chiang, T.: ChatGPT Is a Blurry JPEG of the Web OpenAI’s chatbot offers paraphrases, whereas Google offers quotes. Which do we prefer? *The New Yorker*. Advance Publications, New York. February 9, 2023. ISSN 0028-792X.
- [180] Liu, Z., Feng, Y., Black, M. J., Nowrouzezahrai, D., Paull, L., Liu, W.: MeshDiffusion: Score-based Generative 3D Mesh Modelling. *arXiv*. Cornell University. [arXiv:2303.08133](https://arxiv.org/abs/2303.08133); [arXiv:2303.08133v2](https://arxiv.org/abs/2303.08133v2); <https://doi.org/10.48550/arXiv.2303.08133> (accessed Apr. 21, 2023)
- [181] Christian B.: *The Alignment Problem: Machine Learning and Human Values.* 1st ed. W.W.Norton, 2020, p. 113. ISBN 9780393635829.
- [182] Edwards, B.: GPT-5 might arrive this summer as a “materially better” update to ChatGPT. *ars TECHNICA*. 2024. <https://arstechnica.com/information-technology/2024/03/openais-gpt-5-may-launch-this-summer-upgrading-chatgpt-along-the-way/>. (accessed Mar. 26, 2024)
- [183] Davos 2023: A conversation with Palantir’s Alex Karp. World Economic Forum. 2023. <https://www.weforum.org/podcasts/meet-the-leader/episodes/palantir-alex-karp-saying-yes-thinking-differently/>. (accessed Mar. 12, 2024)
- [184] Zorloni, L.: Il Garante della privacy blocca ChatGPT in Italia. *Wired*. <https://www.wired.it/article/chatgpt-blocco-italia-garante-privacy/>. (accessed Apr. 2, 2023)
- [185] multiple authors, Harari, Y., N., Musk, E., Wozniak, S., Bengio, Y., Russel, S. among others: Pause Giant AI Experiments: An Open Letter. *future of life*. <https://futureoflife.org/open-letter/pause-giant-ai-experiments/>. (accessed Apr. 3, 2023)
- [186] Malik, K.: Elon Musk v OpenAI: tech giants are inciting existential fears to evade scrutiny. *The Guardian*. 2024. <https://www.theguardian.com/commentisfree/2024/mar/10/ai-wont-destroy-us->

but-tech-giants-use-fear-it-will-to-evade-scrutiny?utm\_term=65ed5a781147ba6a86383433a27924d3&utm\_campaign=GuardianTodayUK&utm\_source=esp&utm\_medium=Email&CMP=GTUK\_email. (accessed Mar. 10, 2024)

[187] Heath, R.: AI-fueled scams target tax refunds. *Axios AI+*. 2024. <https://www.axios.com/2024/03/20/tax-returns-scam-ai-cybersecurity>. (accessed Mar. 23, 2024)

[188] Cather, A.: Can government work be fast or efficient? An AI engineer transforming the public sector says yes. *QUARTZ*. 2024. <https://qz.com/can-government-work-be-fast-or-efficient-an-ai-engineer-1851279150>. (accessed Mar. 25, 2024)

[189] Excellence and trust in artificial intelligence. European Commission. 2024. [https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/excellence-and-trust-artificial-intelligence\\_en](https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/excellence-and-trust-artificial-intelligence_en). (accessed Mar. 28, 2024)

[190] Gibney, E.: What the EU's tough AI law means for research and ChatGPT. *nature*. 2024. <https://www.nature.com/articles/d41586-024-00497-8>. (accessed Mar. 12, 2024)

[191] WHITE PAPER On Artificial Intelligence - A European approach to excellence and trust. European Commission. 2020. [https://commission.europa.eu/document/download/d2ec4039-c5be-423a-81ef-b9e44e79825b\\_en?filename=commission-white-paper-artificial-intelligence-feb2020\\_en.pdf](https://commission.europa.eu/document/download/d2ec4039-c5be-423a-81ef-b9e44e79825b_en?filename=commission-white-paper-artificial-intelligence-feb2020_en.pdf). (accessed Mar. 12, 2024)

[192] Saballa, J.: Biden, Xi to Sign Deal Prohibiting AI in Drones, Nuclear Weapons: Report. *The Defense Post*. 2023. <https://www.thedefensepost.com/2023/11/15/biden-xi-prohibit-ai/>. (accessed Jan. 23, 2024)

[193] Weatherbed, J.: International agreement on AI safety gains signatures from 18 countries. *The Verge*. 2023. <https://www.theverge.com/2023/11/27/23977571/international-agreement-on-ai-safety-gains-signatures-from-18-countries>. (accessed Jan. 24, 2024)

[194] Sandle, P., Coulter, M.: AI Safety Summit: China, US, and EU agree to work together. *Reuters*. 2023. <https://www.reuters.com/technology/britain-brings-together-political-tech-leaders-talk-ai-2023-11-01/#:~:text=China%20agreed%20to%20work%20with%20the%20United%20States%2C,safe%20way%20forward%20for%20the%20rapidly%20evolving%20technology>. (accessed Jan. 24, 2024)

[195] AI legislation, lawmakers and companies to watch right now. *AXIOS PRO*. 2024. [https://www.axios.com/pro/reports/ai-legislation-lawmakers-companies?utm\\_adgroup=&keywords=ai%20regulations&subid=&utm\\_device=c&gclid=EAlaIqObChMlvPCx2NP-hAMV4QkGAB3\\_QApLEAAYAAEgK7CvD\\_BwE&campaignid=20010038575&adgroupid=153370161295&adid=672038612286&utm\\_medium=search-pd&utm\\_source=google-pd&utm\\_campaign=subs-search-goog-ProPolicy-Whitepaper&utm\\_term=ai%20regulations&hsa\\_acc=2813569195&hsa\\_cam=20010038575&hsa\\_grp=153370161295&hsa\\_ad=672038612286&hsa\\_src=g&hsa\\_tgt=kwd-991024546247&hsa\\_kw=ai%20regulations&hsa\\_mt=b&hsa\\_net=adwords&hsa\\_ver=3&gad\\_source=1](https://www.axios.com/pro/reports/ai-legislation-lawmakers-companies?utm_adgroup=&keywords=ai%20regulations&subid=&utm_device=c&gclid=EAlaIqObChMlvPCx2NP-hAMV4QkGAB3_QApLEAAYAAEgK7CvD_BwE&campaignid=20010038575&adgroupid=153370161295&adid=672038612286&utm_medium=search-pd&utm_source=google-pd&utm_campaign=subs-search-goog-ProPolicy-Whitepaper&utm_term=ai%20regulations&hsa_acc=2813569195&hsa_cam=20010038575&hsa_grp=153370161295&hsa_ad=672038612286&hsa_src=g&hsa_tgt=kwd-991024546247&hsa_kw=ai%20regulations&hsa_mt=b&hsa_net=adwords&hsa_ver=3&gad_source=1). (accessed Mar. 29, 2024)

[196] Wiggers, K.: The current legal cases against generative AI are just the beginning. *Techcrunch*. <https://techcrunch.com/2023/01/27/the-current-legal-cases-against-generative-ai-are-just-the-beginning/?guccounter=1> (accessed Feb. 2, 2023)

[197] THE NEW YORK TIMES COMPANY, Plaintiff, v. MICROSOFT CORPORATION, OPENAI, INC., OPENAI LP, OPENAI GP, LLC, OPENAI, LLC, OPENAI OPCO LLC, OPENAI GLOBAL LLC, OAI CORPORATION, LLC, and OPENAI HOLDINGS, LLC, Defendants, Civil Action No. \_\_\_\_\_, COMPLAINT, JURY TRIAL DEMANDED. UNITED STATES DISTRICT COURT, SOUTHERN DISTRICT OF NEW YORK. 2023. [https://nytco-assets.nytimes.com/2023/12/NYT\\_Complaint\\_Dec2023.pdf](https://nytco-assets.nytimes.com/2023/12/NYT_Complaint_Dec2023.pdf). (accessed Mar. 12, 2024)

- [198] Roth, E.: The New York Times is suing OpenAI and Microsoft for copyright infringement. *The Verge*. 2023. <https://translate.google.cz/?hl=cs&sl=en&tl=cs&text=The%20New%20York%20Times%20is%20suing%20OpenAI%20and%20Microsoft%20for%20copyright%20infringement.%20The%20Verge.%202024.%20h&op=translate>. (accessed Dec. 30, 2023)
- [198] David, E.: The Intercept, Raw Story, and AlterNet sue OpenAI and Microsoft. *The Verge*. 2024. <https://www.theverge.com/2024/2/28/24085973/intercept-raw-story-alternet-openai-lawsuit-copyright>. (accessed Mar. 3, 2024)
- [199] Rai, S.: Elon Musk Sues OpenAI and Altman for Breaching Firm's Founding Mission. *Bloomberg*. 2024. <https://www.bloomberg.com/news/articles/2024-03-01/musk-sues-openai-altman-for-breaching-firm-s-founding-mission>. (accessed Mar. 12, 2024)
- [200] Verses: AGI Breakthrough An Open Letter to the Board of Directors at OpenAI. *The New York Times*. 2023. <https://www.nytimes.com/paidpost/verses/2023-verses-ai-open-letter/agi-breakthrough.html>. (accessed Jan. 15, 2024)
- [201] Cheung, R.: The WEF is famous for its annual meeting among the world's most rich and powerful. X. 2024. <https://twitter.com/rowancheung/status/1747484395911418035?t=bPoXzYR2J0OUfsjTr0Ggw&s=09>. (accessed Jan. 21, 2024)
- [202] Navratil, D.: Evropa je schopna generovat cca stejné množství top expertů na AI jako USA. *LinkedIn*. 2024. [https://www.linkedin.com/posts/david-navratil\\_evropa-je-schopna-generovat-cca-stejne-mnozstvi-activity-7162684357231517697-Rt6f/?utm\\_source=share&utm\\_medium=member\\_android](https://www.linkedin.com/posts/david-navratil_evropa-je-schopna-generovat-cca-stejne-mnozstvi-activity-7162684357231517697-Rt6f/?utm_source=share&utm_medium=member_android). (accessed Mar. 18, 2024)
- [203] Orrru, M.: Microsoft's OpenAI Investment Could Face EU Probe. *Morningstar*. 2024. <https://www.morningstar.com/news/dow-jones/202401093218/microsofts-openai-investment-could-face-eu-probe>. (accessed Feb. 14, 2024)
- [204] Bulgaria GDP. *countryeconomy.com*. 2024. <https://countryeconomy.com/gdp/bulgaria>. (accessed Apr. 2, 2024)
- [205] Gurman, M.: Apple Explores Home Robotics as Potential 'Next Big Thing' After Car Fizzles. *Bloomberg*. 2024. <https://www.bloomberg.com/news/articles/2024-04-03/apple-explores-home-robots-after-abandoning-car-efforts>. (accessed Apr. 5, 2024)
- [206] Sawers, P.: Google DeepMind CEO Demis Hassabis gets UK knighthood for 'services to artificial intelligence'. *TechCrunch*. 2024. [https://techcrunch.com/2024/03/29/google-deepmind-ceo-demis-hassabis-gets-uk-knighthood-for-services-to-artificial-intelligence/?utm\\_source=aitoolreport.beehiiv.com&utm\\_medium=referral&utm\\_campaign=openai-can-replicate-your-voice-with-a-15-second-sample&guccounter=1](https://techcrunch.com/2024/03/29/google-deepmind-ceo-demis-hassabis-gets-uk-knighthood-for-services-to-artificial-intelligence/?utm_source=aitoolreport.beehiiv.com&utm_medium=referral&utm_campaign=openai-can-replicate-your-voice-with-a-15-second-sample&guccounter=1). (accessed Apr. 2, 2024)
- [207] Ludlow, E., Bass, D., Tan, G., Metz, R.: Altman Seeks to Raise Billions for Network of AI Chip Factories. *Bloomberg*. 2024. <https://www.bloomberg.com/news/articles/2024-01-19/altman-seeks-to-raise-billions-for-network-of-ai-chip-factories>. (accessed Feb. 16, 2024)
- [208] 2024 Hualien earthquake. *Wikipedia*. 2024. [https://en.wikipedia.org/wiki/2024\\_Hualien\\_earthquake](https://en.wikipedia.org/wiki/2024_Hualien_earthquake). (accessed Apr. 6, 2024)
- [209] Letzing, J.: To fully appreciate AI expectations, look to the trillions being invested. *World Economic Forum*. 2024. [https://www.weforum.org/agenda/2024/04/appreciate-ai-expectations-trillions-invested/?utm\\_source=sfmc&utm\\_medium=email&utm\\_campaign=2825108\\_WeeklyAgenda5April2024&utm\\_term=&emailType=Agenda%20Weekly](https://www.weforum.org/agenda/2024/04/appreciate-ai-expectations-trillions-invested/?utm_source=sfmc&utm_medium=email&utm_campaign=2825108_WeeklyAgenda5April2024&utm_term=&emailType=Agenda%20Weekly). (accessed Apr. 10, 2024)

- [210] Smith, E.: Magnificent 7 profits now exceed almost every country in the world. Should we be worried? *CNBC*. 2024. <https://www.cnbc.com/2024/02/19/magnificent-7-profits-now-exceed-almost-every-country-in-the-world-should-we-be-worried.html>. (accessed Mar. 30, 2024)
- [211] The Buffett Indicator. 2024. <https://currentmarketvaluation.com/models/buffett-indicator.php>. (accessed Mar. 9, 2024)
- [212] Di Pizio, A.: Warren Buffett Is Sitting on a Record \$167.6 Billion Cash Pile. Here are 10 Stocks Berkshire Hathaway Could Buy Outright. *The Motley Fool. Nasdaq*. 2024. <https://www.nasdaq.com/articles/warren-buffett-is-sitting-on-a-record-%24167.6-billion-cash-pile.-here-are-10-stocks>. (accessed Mar. 9, 2024)
- [213] Zaha Hadid Studio: Antic Style Architectur. *Bing.com Videos*. <https://www.bing.com/videos/search?q=zaha+ai&docid=608008305523768389&mid=399E3EA3BEEECAC53B89399E3EA3BE EECAC53B89&view=detail&FORM=VIRE> (accessed Feb. 13, 2023)
- [214] Leach, N.: *Architecture in the Age of Artificial Intelligence An introduction to AI for architects*. Bloomsbury Visual Arts, London, 2022. p. 109. ISBN 978-1-3501-6551-9.
- [215] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, pp. 80, 86-89. ISBN 978-3-0356-2400-7.
- [216] Isola, P.: Phillip Isola. *MIT*. <http://web.mit.edu/phillipi/> (accessed Feb. 23, 2023)
- [217] Chai, L., Wulff, J., Isola, P.: Using latent space regression to analyze and leverage compositionality in GANs. *GitHub*. <https://chail.github.io/latent-composition/> (accessed Feb. 12, 2023)
- [218] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, p. 90. ISBN 978-3-0356-2400-7.
- [219] Pix2Pix. *Machine Learning 4 Artists Github*. <https://ml4a.github.io/guides/Pix2Pix/> (accessed Jan. 6, 2023)
- [220] Witt, Andrew: *Formulations: Architecture, Mathematics, Culture*. The MIT Press, 2022. ISBN 978026543002
- [221] Zheng, H., Huang, W.. *Architectural Drawings Recognition and Generation through Machine Learning. ACADIA*. Cambridge, MA, 2018.
- [222] Wang, T. C., Liu, M. Y., Zhu, J. Y., Tao, A., Kautz, J., Catanzaro, B.: High-Resolution Image Synthesis and Semantic Manipulation with Conditional GANs. *CVPR*. 2018. arXiv: 1711.11585v2. (accessed Jan. 12, 2024)
- [223] Nathan Peters. Master Thesis: *Enabling Alternative Architectures: Collaborative Frameworks for Participatory Design*. Harvard Graduate School of Design, Cambridge, MA. 2017.
- [224] Steinfeld, K.: *Berkeley College of Environmental Design*. [https://ced.berkeley.edu/wpcontent/uploads/2022/02/pix2pix\\_grid\\_01.jpg](https://ced.berkeley.edu/wpcontent/uploads/2022/02/pix2pix_grid_01.jpg) (accessed Jan. 6, 2023)
- [225] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, p. 90. ISBN 978-3-0356-2400-7.
- [226] Steinfeld, K.: Sketch2Pix. *CDRF*. [http://blah.ksteinfe.com/200625/cdrf\\_2020.html](http://blah.ksteinfe.com/200625/cdrf_2020.html) (accessed Jan. 6, 2023)
- [227] Martinez, N.: *Suggestive Drawing Among Human and Artificial Intelligences*. Harvard Graduate School of Design, Cambridge, MA. 2016.
- [228] Leach, N.: *Architecture in the Age of Artificial Intelligence An introduction to AI for architects*. Bloomsbury Visual Arts, London, 2022. p. 106. ISBN 978-1-3501-6551-9.
- [229] De Cremer, D., Kasparov, G.: AI Should Augment Human Intelligence, Not Replace It. *Harvard Business Review*. 2021. <https://hbr.org/2021/03/ai-should-augment-human-intelligence-not-replace-it>. (accessed Jun. 17, 2023)

- [230] Applied R+D. *Foster+Partners*. <https://www.fosterandpartners.com/people/teams/applied-rplusd> (accessed Nov. 11, 2022)
- [231] Quintana, M., Schiavon, S., Wai Tham, K., Miller, C.: Balancing thermal comfort datasets: We GAN, but should we? *Buildsys '20: Proceedings of the 7<sup>th</sup> ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation*. November 2020, pp. 120-129. doi: 10.1145/3408308.3427612
- [232] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, p. 98. ISBN 978-3-0356-2400-7.
- [233] Interior AI designer. *ZMO.AI*. 2022. <https://www.zmo.ai/interior-ai/>. (accessed Jun. 15, 2023)
- [234] Romero, A.: Stable Diffusion Is the Most Important AI Art Model Ever. *The Algorithmic Bridge*. 2022. <https://www.thealgorithmicbridge.com/p/stable-diffusion-is-the-most-important>. (accessed Oct. 11, 2023)
- [235] Taylor, R., Kardas, M., Cucurull, G., Scialom, T., Hartshorn, A., Saravia, E., Poulton, A., Kerkez, V., Stojnic, R.: Galactica: A Large Language Model for Science. *Papers with Code*. Meta AI, 2022. <https://galactica.org/static/paper.pdf>. (accessed Jan. 12, 2023)
- [236] Chuan-En Lin, D.: 2022 Top Papers in AI — A Year of Generative Models. *Medium*. 2022. <https://chuanenlin.medium.com/2022-top-ai-papers-a-year-of-generative-models-a7dcd9109e39>. (accessed Mar. 23, 2023)
- [237] del Campo, M., Manninger, S.: Imaginary Plans. *Proceedings of the 2019 ACADIA Conference – Ubiquity and Autonomy*. [https://www.academia.edu/40735096/Imaginary\\_Plans](https://www.academia.edu/40735096/Imaginary_Plans) (accessed Nov. 11, 2022)
- [238] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, pp. 83-86. ISBN 978-3-0356-2400-7.
- [239] Tian, R.: Suggestive Site Planning with Conditional GAN and Urban Data. Yuan, P.F., Yao, J., Yan, C., Wang, X., Leach, N. (eds), *Proceedings of the 2020 DigitalFUTURES. CDRF 2020*. Springer, Singapore. doi: 10.1007/978-981-33-4400-610. [https://link.springer.com/chapter/10.1007/978-981-33-4400-6\\_10](https://link.springer.com/chapter/10.1007/978-981-33-4400-6_10) (accessed Nov. 11, 2022)
- [240] Kyle, R.: Spacemaker: Merging AI technology with Urban Planning and Design. *HBS Digital Initiative*. <https://d3.harvard.edu/platform-digit/submission/spacemaker-merging-ai-technology-with-urban-planning-and-design/> (accessed Nov. 11, 2022)
- [241] Spacemaker: Early-stage planning, reimagined. *Autodesk*. <https://www.autodesk.com/products/spacemaker/overview> (accessed Oct. 1, 2022)
- [242] Supercharge your building design capabilities. *Cove.tool*. <https://www.cove.tools/> (accessed Oct. 1, 2022)
- [243] The platform for urban analytics. *Giraffe*. <https://www.giraffe.build/> (accessed Oct. 2, 2022)
- [244] *Creo: Design. The way it should be.* *ptc*. <https://www.ptc.com/en/products/creo> (accessed Oct. 2, 2022)
- [245] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, pp. 103-109. ISBN 978-3-0356-2400-7.
- [246] Wray, S.: City digital twin adoption growing fast but challenges remain. *Cities today*. 2022. <https://cities-today.com/city-digital-twin-adoption-growing-fast-but-challenges-remain/>. (accessed Apr. 16, 2023)
- [247] Block-NeRF Scalable Large Scene Neural View Synthesis. Waymo. 2023. <https://waymo.com/research/block-nerf/>. (accessed Nov. 23, 2023)
- [248] Leach, N.: Design in the Age of Artificial Intelligence. *Landscape Architecture Frontiers*. Higher Education Press, Peking University. vol. 6, issue 2, April 2018. pp. 115-118. ISSN 2096-336X.

- [249] Christian B.: *The Alignment Problem: Machine Learning and Human Values*. 1st ed, W.W.Norton, 2020, pp. 17-80. ISBN 9780393635829.
- [250] About | Stanislas Chaillou. 2023. <https://stanislaschaillou.com/bio.html>. (accessed Mar 16, 2024)
- [251] Stanislas Chaillou is an architect, designer and AI-researcher. 2023. <https://stanislaschaillou.com/main.html>. (accessed Mar. 16, 2024)
- [252] Draw floor plans faster together. *rayon*. 2024. <https://www.rayon.design/>. (accessed Mar. 16, 2024)
- [253] Elevate your architectural workflow with Wearrecho's VR capabilities. Wearrecho. 2023. <https://wearrecho.space>. (accessed Apr. 5, 2024)
- [254] Barker, N.: ZHA developing "most" projects using AI-generated images says Patrik Schumacher. *dezeen*. 2023. <https://www.dezeen.com/2023/04/26/zaha-hadid-architects-patrik-schumacher-ai-dalle-midjourney/>. (accessed Oct. 7, 2023)
- [255] Wainwright, O.: 'It's already way beyond what humans can do': will AI wipe out architects? *The Guardian*. 2023. <https://www.theguardian.com/artanddesign/2023/aug/07/ai-architects-revolutionising-corbusier-architecture>. (accessed Oct. 18, 2023)
- [256] Barker, N.: "Architects may become a thing of the past" says ChatGPT. *dezeen*. 2023. [https://www.dezeen.com/2023/02/13/chat-gpt-ai-architecture/?utm\\_medium=email&utm\\_campaign=Daily%20Dezeen](https://www.dezeen.com/2023/02/13/chat-gpt-ai-architecture/?utm_medium=email&utm_campaign=Daily%20Dezeen). (accessed Oct. 16, 2023)
- [257] Leach, N.: AI is putting our jobs as architects unquestionably at risk. *dezeen*. 2023. <https://www.dezeen.com/2023/02/13/ai-architecture-jobs-risk-neil-leach-opinion/>. (accessed Oct. 16, 2023)
- [258] Next generation AI platform for architects & designers. *Lookx.AI*. 2022. <https://www.lookx.ai>. (accessed Jul. 23, 2023)
- [259] Krea Open Beta. *Krea*. 2023. <https://www.krea.ai/home>. (accessed Jul. 23, 2023)
- [260] *Midjourney*. <https://www.midjourney.com/home>. (accessed Apr. 5, 2024)
- [261] *Stable Diffusion Online*. [https://stablediffusionweb.com/#google\\_vignette](https://stablediffusionweb.com/#google_vignette). (accessed Apr. 5, 2024)
- [262] *ControlNet: A Complete Guide*. <https://stable-diffusion-art.com/controlnet/>. (accessed Apr. 5, 2024)
- [263] Ikiz, S. U.: Carlos Banon said on AI, "We're not just following the old rules anymore; we're making new ones". *Parametric Architecture*. 2023. <https://parametric-architecture.com/carlos-banon-said-on-ai-were-not-just-following-the-old-rules-anymore-were-making-new-ones/>. (accessed Feb. 23, 2024)
- [264] Muaz, E.: Taking Control: Midjourney X ControlNet – Studio Carlos Banon, PA Next Team: Taking Control 2.0: Midjourney X ControlNet – Studio Carlos Banon, PA Next Team: Taking Control 3.0: Stable Diffusion XL X ControlNet – Studio Carlos Banon. *PA Academy*. 2023. <https://parametric-architecture.com/tag/studio-carlos-banon/>. (accessed Feb. 23, 2024)
- [265] What's in Creo9. *ptc*. <https://www.ptc.com/en/blogs/cad/whats-in-creo9> (accessed Oct. 4, 2022)
- [266] Cove.tool Review. *FiancesOnline*. <https://reviews.financesonline.com/p/cove-tool/> (accessed Oct. 4, 2022)
- [267] Harouk, Ch.: Spacemaker Proposes AI-Powered Generative Design to Create More Sustainable Spaces and Cities. *Archdaily*. <https://www.archdaily.com/952850/spacemaker-proposes-ai-powered-generative-design-to-create-more-sustainable-spaces-and-cities> (accessed Jan. 2, 2023)



- [268] Pavel Shaban. *MS architekti*. <https://www.wemakespaces.archi/cs/lide> (accessed Jan. 23, 2023)
- [269] Sourek, M.: From Functional Areas towards Metropolitans Structure: Public Space in Sustainable Development Context. *Advanced Engineering Forum*. Trans Tech Publications 2014. vol. 12, pp 176-180, ISBN 978-3-03835-323-2.
- [270] Autodesk Forma: Cloud-based software for early-stage planning and design. *AUTODESK*. 2023. <https://www.autodesk.com/products/forma/overview?term=1-YEAR&tab=subscription&plc=SPCMKR>. (accessed Mar. 23, 2024)
- [271] Buckle up, we're venturing into a new era of architecture! *Martin Posta*. *LinkedIn*. 2024. [https://www.linkedin.com/posts/martinposta\\_buckle-up-were-venturing-into-a-new-era-activity-7172501651814105088-fxru?utm\\_source=share&utm\\_medium=member\\_android](https://www.linkedin.com/posts/martinposta_buckle-up-were-venturing-into-a-new-era-activity-7172501651814105088-fxru?utm_source=share&utm_medium=member_android). (accessed Mar. 22, 2024)
- [272] Chaillou, S.: *Artificial Intelligence and Architecture From Research to Practice*. Birkhauser Verlag GmbH, Basel, Switzerland, 2022, pp. 80,86-92. ISBN 978-3-0356-2400-7.
- [273] Leach, N.: Design in the Age of Artificial Intelligence. *Landscape Architecture Frontiers*. Higher Education Press, Peking University. vol. 6, issue 2, April 2018. pp. 113-114. ISSN 2096-336X.
- [274] *ibid*, p. 114
- [275] XKool Technolgy. *Crunchbase*. <https://www.crunchbase.com/organization/xkool-technolo-gy> (accessed Dec. 4, 2022)
- [276] XKool. <https://www.xkool.ai> (accessed Dec. 4, 2022)
- [277] Leach, N.: Design in the Age of Artificial Intelligence. *Landscape Architecture Frontiers*. Higher Education Press, Peking University. vol. 6, issue 2, April 2018. p. 117. ISSN 2096-336X.
- [278] *ibid*, pp. 115-118
- [279] SCIA ENGINEER. *Scia*. <https://www.scia.net/en/scia-engineer> (accessed Feb. 7, 2023)
- [280] Salehi, H., Burgueño, R.: Emerging artificial intelligence methods in structural Engineering. *ScienceDirect*. <https://www.sciencedirect.com/science/article/abs/pii/S0141029617335526> (accessed Feb. 7, 2023)
- [281] Structural Engineering Software to Learn in 2023: Top 10 Best. *Tribby3d*. <https://tribby3d.com/blog/structural-engineering-software/> (accessed Jan. 30, 2023)
- [282] NEW EXPERIMENTAL TECHNOLOGIES. *MVRDV*. <https://www.mvrdv.nl/themes/15/next> (accessed Feb. 2, 2023)
- [283] van den Burgh, S.: MVRDV Next. *AECtech 2022*. <https://www.youtube.com/watch?v=Zlza0cM5wBM> (accessed Feb. 3, 2023)
- [284] Greenwood, V.: Consciousness Began When the Gods Stopped Speaking. *Nautilus*. [https://nautil.us/consciousness-began-when-the-gods-stopped-speaking-235445/?utm\\_source=nautilus-newsletter&utm\\_medium=email&he=1eee5366d2d1297277930d07b824c45b](https://nautil.us/consciousness-began-when-the-gods-stopped-speaking-235445/?utm_source=nautilus-newsletter&utm_medium=email&he=1eee5366d2d1297277930d07b824c45b) (accessed Mar. 29, 2023)
- [285] Heidegger, M.: *Sein und Zeit*. Max Niemeier Verlag, Tübingen, 2006. pp. 146-216. ISBN 3-484-70153-6. in English *Being and Time*. translated by Macquarrie, J., Robinson, E. 1st ed., Blackwell Publishers, 1962. ISBN 0-631-19770-2.
- [286] Dennett, D.: *From Bacteria to Bach and Back: The Evolution of Minds*. W. W. Norton, 2017. ISBN: 978-0393242072.
- [287] Rushdie, S.: *Languages of Truth: Essays 2003-2020*. Random House, 2021. p. 158. ISBN 978-0593318211.

- [288] McBride, S.: Musk Says First Neuralink Patient Received Implant in Brain. *Bloomberg*. 2024. <https://www.bloomberg.com/news/articles/2024-01-29/elon-musk-says-first-human-patient-has-received-brain-implant>. (accessed Feb. 2, 2024)
- [289] Marek, J.: Video prvního člověka, který má v mozku čip od Neuralinku. *Seznam Zprávy*. 2024. <https://www.seznamzpravy.cz/clanek/tech-technologie-video-prvniho-cloveka-ktery-ma-v-mozku-cip-od-neuralinku-248357>. (accessed Mar. 23, 2024)
- [290] Rushdie, S.: *Languages of Truth: Essays 2003-2020*. Random House, 2021. p. 180. ISBN 978-0593318211.
- [291] Xu, G., Mihaylova, T., Li, D., Tian, F., Farrehi, P. M., Parent, J. M., Mashour, G. A., Wang, M. M., Borjigin, J.: Surge of neurophysiological coupling and connectivity of gamma oscillations in the dying human brain. *Proc Natl Acad Sci USA*. DOI: 10.1073/pnas.2216268120. <https://pubmed.ncbi.nlm.nih.gov/37126719/>. (accessed Oct. 23, 2023)
- [292] Bai, Y., Wang, X., Cao, Y.-P., Ce, Y., Yuan, Ch., Shan, Y.: DreamDiffusion: Generating High-Quality Images from Brain EEG Signals. *arXiv*. Cornell University, 2023. arXiv:23061.16934v2; <https://doi.org/10.48550/arXiv.2306.16934>. (accessed Dec. 15, 2023)
- [293] Trafton, A.: From neurons to learning and memory. *MIT News*. 2024. <https://news.mit.edu/2024/mark-harnett-investigates-electrical-activity-0416>. (accessed Apr. 17, 2024)
- [294] Prakash, D.: Mastering Large Language Models in 2024: A Learning Path for Developers. *TURING*. 2024. <https://www.turing.com/blog/mastering-large-language-models-learning-path-for-developers/>. (accessed Mar. 8, 2024)
- [295] Li, K.: Do Large Language Models learn world models or just surface statistics? *The Gradient*. 2023. <https://thegradients.pub/othello/>. (accessed Mar. 10, 2024)
- [296] Verses. *Crunchbase*. 2024. <https://www.crunchbase.com/organization/verses>. (accessed Mar. 22, 2024)
- [297] Heath, R.: The road map to AI's next level could be nature. *AXIOS*. 2024. <https://www.axios.com/2024/03/13/verses-ai-artificial-general-intelligence-chatgpt>. (accessed Mar. 18, 2024)
- [298] Hawkins, J.: *A Thousand Brains: A New Theory of Intelligence*. Basic Books, 2021. ISBN 9781541675810.
- [299] Keary, T.: Decentralized Artificial Intelligence (DAI). *Technopedia*. 2023. <https://www.techopedia.com/definition/decentralized-ai-dai>. (accessed Mar. 21, 2024)
- [300] Distributed AI. *clan*. 2024. <https://clanx.ai/glossary/distributed-ai>. (accessed Mar. 21, 2024)
- [301] Stability AI fires 10% of its workforce. *AI Tool Report*. 2024. [https://aitoolreport.beehiiv.com/p/meta-ai-comes-to-whatsapp-instagram-and-facebook?utm\\_source=aitoolreport.beehiiv.com&utm\\_medium=newsletter&utm\\_campaign=whatsapp-instagram-and-facebook-get-metaai](https://aitoolreport.beehiiv.com/p/meta-ai-comes-to-whatsapp-instagram-and-facebook?utm_source=aitoolreport.beehiiv.com&utm_medium=newsletter&utm_campaign=whatsapp-instagram-and-facebook-get-metaai). (accessed Ap. 19, 2024)
- [302] Heidegger, M.: *Voll Verdienst, doch dichterisch wohnt / Der Mensch auf dieser Erde. Heidegger und Hölderlin, herausgegeben von Peter Trawny*. Vittorio Klostermann 2000. ISBN 978-3-465-03084-3.
- [303] Gowans, A., Ackerman, J. S., Scruton, R., Collins, P.: Architecture. *Encyclopedia Britannica*. <https://www.britannica.com/topic/architecture> (accessed Jan. 15, 2023)
- [304] Sourek, M.: Architecture tech: A challenge for investors. *Academia Letters*, 2021, article 892. <https://doi.org/10.20935/AL892>. (accessed Mar. 20, 2024)
- [305] Vesely, D.: *Architecture in the Age of Divided Representation: The Question of Creativity in the Shadow of Production*. 1st ed. MIT Press, 2004. ISBN 0-262-22067-9.

- [306] Leach, N.: Design in the Age of Artificial Intelligence. *Landscape Architecture Frontiers*. Higher Education Press, Peking University. vol. 6, issue 2, April 2018. p. 118. ISSN 2096-336X.
- [307] McCulloch, W., Pitts, W.: *A Logical Calculus of Ideas Immanent in Nervous Activity*. *Bulletin of Mathematical Biophysics*. 5 (4), 1943, pp. 115–133. doi: [10.1007/BF02478259](https://doi.org/10.1007/BF02478259).
- [308] Turing, A. M.: On Computable Numbers, with an Application to the Entscheidungsproblem. *Proceedings of the London Mathematical Society*. 2 s. vol. 42 (1936–1937), pp. 230–265. online by Cambridge University Press, 2014. <https://www.cambridge.org/core/journals/journal-of-symbolic-logic/article/abs/a-m-turing-on-computable-numbers-with-an-application-to-the-entscheidungs-problcm-proceedings-of-the-london-mathematical-society-2-s-vol-42-19361937-pp-230265/4DFCA89035F7F7C5BF4DB5129B8BB09E>. (accessed Apr. 22, 2023)
- [309] Abraham, T. H.: (Physio)logical Circuits: The Intellectual Origins of the McCulloch-Pitts Neural Networks. *Journal of the History of the Behavioral Sciences*. 38(1), 3–25. 2002. DOI: 10.1002/jhbs.1094. accessible online <https://psycnet.apa.org/record/2002-04758-001>. (accessed Nov. 15, 2023)
- [310] Abraham, T. H.: Integrating Mind and Brain: Warren S. McCulloch, Cerebral Localization, and Experimental Epistemology. *Endeavour* 27(1), 32–38. 2003. DOI: 10.1002/jhbs.1094. accessible online [https://www.academia.edu/4051744/Integrating\\_mind\\_and\\_brain\\_Warren\\_S\\_McCulloch\\_cerebral\\_localization\\_and\\_experimental\\_epistemology](https://www.academia.edu/4051744/Integrating_mind_and_brain_Warren_S_McCulloch_cerebral_localization_and_experimental_epistemology). (accessed Nov. 17, 2023)
- [311] Recurrent neural network. *WIKIPEDIA*. [https://en.wikipedia.org/wiki/Recurrent\\_neural\\_network](https://en.wikipedia.org/wiki/Recurrent_neural_network) (accessed Nov. 7, 2022)
- [312] Mountcastle, V.: Modality and topographic properties of single neurons of cat's somatic sensory cortex. *Journal of Neurophysiology*. 20 (4): 408–34. 1957. doi:10.1152/jn.1957.20.4.408. PMID 13439410. accessible online <https://europepmc.org/article/MED/13439410>. (accessed Dec. 9, 2023)
- [313] Haueis, P.: The life of the cortical column: opening the domain of functional architecture of the cortex (1955–1981). *HPLS* 38, 2. 2016. <https://doi.org/10.1007/s40656-016-0103-4>. accessible online <https://link.springer.com/content/pdf/10.1007/s40656-016-0103-4.pdf>. (accessed Nov. 20, 2023)
- [314] Bertics, A.: AI models will become smaller and faster. *The Economist*. 2023. [https://www.economist.com/the-world-ahead/2023/11/13/ai-models-will-become-smaller-and-faster?utm\\_content=conversion.direct-response.non-subscriber.article\\_bottom&utm\\_campaign=a.24worldahead\\_content\\_v1\\_registered.2024-01-07&utm\\_medium=email.owned.np&utm\\_source=salesforce-marketing-cloud&utm\\_term=1/7/2024&utm\\_id=1841573&sfmc\\_id=0033z000032ypDXAAY&utm\\_content=343495&utm\\_id=5c9b35b7-9eb1-4aaf-aaaf-cacabb0c75c2&sfmc\\_activityid=60093c56-939e-4455-81fd-ab25ccc697f7&utm\\_medium=email.owned.np](https://www.economist.com/the-world-ahead/2023/11/13/ai-models-will-become-smaller-and-faster?utm_content=conversion.direct-response.non-subscriber.article_bottom&utm_campaign=a.24worldahead_content_v1_registered.2024-01-07&utm_medium=email.owned.np&utm_source=salesforce-marketing-cloud&utm_term=1/7/2024&utm_id=1841573&sfmc_id=0033z000032ypDXAAY&utm_content=343495&utm_id=5c9b35b7-9eb1-4aaf-aaaf-cacabb0c75c2&sfmc_activityid=60093c56-939e-4455-81fd-ab25ccc697f7&utm_medium=email.owned.np). (accessed Feb. 2, 2024)
- [315] Monserrate, S. G.: The Staggering Ecological Impacts of Computation and the Cloud. *The MIT PRESS Reader*. 2024. [https://thereader.mitpress.mit.edu/the-staggering-ecological-impacts-of-computation-and-the-cloud/?utm\\_source=90404-Pod%20čarou&utm\\_medium=email&utm\\_term=17599780728&utm\\_content=environmentální%20opady%20datových%20center&utm\\_campaign=SZ%20-%20Pod%20čarou--20240309](https://thereader.mitpress.mit.edu/the-staggering-ecological-impacts-of-computation-and-the-cloud/?utm_source=90404-Pod%20čarou&utm_medium=email&utm_term=17599780728&utm_content=environmentální%20opady%20datových%20center&utm_campaign=SZ%20-%20Pod%20čarou--20240309). (accessed Mar. 18, 2024)
- [316] Nichols, H.: Energy secretary's AI power plan. *Axios AI+*. 2024. [https://www.axios.com/newsletters/axios-ai-plus-a131709d-30f3-4045-87b3-2796316a8990.html?utm\\_source=newsletter&utm\\_medium=email&utm\\_campaign=newsletter\\_axio\\_slogin&stream=top](https://www.axios.com/newsletters/axios-ai-plus-a131709d-30f3-4045-87b3-2796316a8990.html?utm_source=newsletter&utm_medium=email&utm_campaign=newsletter_axio_slogin&stream=top). (accessed Apr. 1, 2024)
- [317] OpenAI team: GPT-4 Technical Report. *arxiv*. Cornell University, 2024. [arXiv:2303.08774v6; https://doi.org/10.48550/arXiv.2303.08774](https://doi.org/10.48550/arXiv.2303.08774). (accessed Mar. 22, 2024)
- [318] Nvidia Blackwell Platform Arrives to Power a New Era of Computing. *Nvidia Newsroom*. 2024. <https://Nvidianews.Nvidia.com/news/Nvidia-blackwell-platform-arrives-to-power-a-new-era-of-computing>. (accessed Mar. 26, 2024)

- [319] Hruska, J.: Samsung-Backed Researchers Debut Ternary Semiconductor Design. *EXTREMETECH*. 2019. <https://www.extremetech.com/computing/295424-back-off-binary-samsung-backed-researchers-debut-ternary-semiconductor>. (accessed Oct. 21, 2023)
- [320] Classical optical neural network exhibits 'quantum speedup'. PhysOrg. Technical University of Denmark, 2024. <https://phys.org/news/2024-04-classical-optical-neural-network-quantum.html>. (accessed Apr. 5, 2024)
- [321] 100 kilometers of quantum-encrypted transfer. PhysOrg. Technical University of Denmark, 2024. <https://phys.org/news/2024-04-kilometers-quantum-encrypted.html>. (accessed Apr. 5, 2024)
- [322] D-Wave Reports 4th Quarter and Year-End 2023 Results. *HPC Wire*. 2024. <https://www.hpcwire.com/off-the-wire/d-wave-reports-4th-quarter-and-year-end-2023-results/>. (accessed Apr. 5, 2024)
- [323] Quantum Computing Inc. Releases Full Year 2023 Financial Report. *Quantum Computing Report*. 2024. <https://quantumcomputingreport.com>. (accessed Apr. 5, 2024)
- [324] Swayne, M.: Zapata AI Stock Faces Steep Decline On First Day Of Trading, Could Chill Future SPAC Deals In Quantum. *The Quantum Insider*. 2024. <https://thequantuminsider.com/2024/04/02/zapata-ai-stock-faces-steep-decline-on-first-day-of-trading-could-chill-future-spac-deals-in-quantum/>. (accessed Apr. 5, 2024)
- [325] Swayne, M.: Chicago Won't Be Second City In Quantum: Illinois Governor Unveils Strategic Plan For Quantum. 2024. <https://thequantuminsider.com/2024/04/02/chicago-wont-be-second-city-in-quantum-illinois-governor-unveils-strategic-plan-for-quantum/>. (accessed Apr. 5, 2024)
- [326] Imagine a Smarter World. *VERSES*. 2024. <https://www.verses.ai/>. (accessed Mar. 18, 2024)
- [327] VIVE Team: MWC 2024 Unveiled: HTC VIVE's AI and Spatial Computing Innovations. *VIVE*. 2024. <https://blog.vive.com/us/mwc-2024-unveiled-htc-vives-ai-and-spatial-computing-innovations/>. (accessed Mar. 2, 2024)
- [328] Yenduri, G., Ramalingam, M., Kumar, P., Maddikunta, R., Gadekallu, T. R., Jhaveri, R. H., Bandi, A., Chen, J., Wang, W., Shirawalmath, A. A., Ravishankar, R., Wang, W.: Spatial Computing: Concept, Applications, Challenges and Future Directions. *arXiv*. Cornell University, 2024. <https://arxiv.org/html/2402.07912v1>. (accessed Mar. 2, 2024)
- [329] Chaillou, S.: Tooling the Ordinary. A Manifesto for Rayon. *Medium | Rayon*. <https://medium.com/rayonapp/tooling-the-ordinary-42b91b837876>. (accessed Dec. 12, 2023)
- [330] Let's build from here. *Github*. <https://github.com> (accessed Mar. 24, 2023)
- [331] Software. Faster. *GitLab*. <https://gitlab.com/> (accessed Mar. 24, 2023)
- [332] What is PatternForge? *PatternForge*. <https://patternforge.org> (accessed Mar. 24, 2023)
- [333] The United States spends more on defense than the next ten countries combined. *Peter G. Peterson Foundation blog*. 2023. <https://www.pgpf.org/blog/2023/04/the-united-states-spends-more-on-defense-than-the-next-10-countries-combined>. (accessed Mar. 16, 2024)
- [334] Statista Research Dept.: U.S. share of value added to GDP 2023, by industry. *Statista*. 2024. <https://www.statista.com/statistics/248004/percentage-added-to-the-us-gdp-by-industry/>. (accessed Apr. 5, 2024)
- [335] Kolmar, Ch.: 25 Essential US Construction Industry Statistics [2023]: Data, Trends And More. *Zippia*. 2023. <https://www.zippia.com/advice/us-construction-industry-statistics/>. (accessed Apr. 5, 2024)
- [336] Global BIM Adoption: A 2024 Outlook. *Pinnacle Infotech*. 2024. <https://pinnacleinfotech.com/global-bim-adoption/>. (accessed Feb. 14, 2024)

- [337] Building Information Modeling Market Statistics: 2032. *Allied Market Research*. 2024. <https://www.alliedmarketresearch.com/building-information-modeling-market>. (accessed Feb. 14, 2024)
- [338] Perez, C.: What Is AI's Place in History? *Project Syndicate*. 2024. <https://www.project-syndicate.org/magazine/ai-is-part-of-larger-technological-revolution-by-carlota-perez-1-2024-03?barrier=accesspaylog>. (accessed Mar. 15, 2024)
- [339] Sora: first impressions. OpenAI. 2024. [https://openai.com/index/sora-first-impressions?ref=themar\\_techweekly.com](https://openai.com/index/sora-first-impressions?ref=themar_techweekly.com). (accessed Mar. 28, 2024)
- [340] Crowley, M.: Humanoid robot learns tasks in 24hrs. *AI tool report*. 2024. [https://www.aitoolreport.com/articles/humanoid-robot-learns-tasks-in-24hrs?utm\\_source=aitoolreport.beehiiv.com&utm\\_medium=newsletter&utm\\_campaign=musk-to-raise-6b-from-his-buddies-for-xai](https://www.aitoolreport.com/articles/humanoid-robot-learns-tasks-in-24hrs?utm_source=aitoolreport.beehiiv.com&utm_medium=newsletter&utm_campaign=musk-to-raise-6b-from-his-buddies-for-xai). (accessed Apr. 26, 2024)
- [341] Sanctuary AI Unveils the Next Generation of AI Robotics. *Sanctuary AI*. 2024. <https://sanctuary.ai/resources/news/sanctuary-ai-unveils-the-next-generation-of-ai-robotics/>. (accessed Apr. 26, 2024)
- [342] Sanctuary AI Phoenix Humanoid Robot Used for Sorting Mechanical Parts. *Robotic Gizmos*. 2023. <https://www.roboticgizmos.com/sanctuary-ai-phoenix/>. (accessed Apr. 26, 2024)
- [343] Levy, I., Schiller, D. Uncertainty in learning and decision-making: Introduction to the special issue. *Cogn Affect Behav Neurosci*. 23, 459–464 (2023). <https://doi.org/10.3758/s13415-023-01111-6>. (accessed Apr. 20, 2024)
- [344] Lamnina, M., Chase, C.C. Uncertain instruction: effects on curiosity, learning, and transfer. *Instr Sci*. 49, 661–685 (2021). <https://doi.org/10.1007/s11251-021-09557-2>. (accessed Apr. 19, 2024)
- [345] Sanctuary AI Unveils Phoenix™ - A Humanoid General-Purpose Robot Designed for Work. *Sanctuary AI*. 2023. <https://sanctuary.ai/resources/news/sanctuary-ai-unveils-phoenix-a-humanoid-general-purpose-robot-designed-for-work/>. (accessed Apr. 26, 2024)
- [346] Josef Sivic získal prestižní ERC Advanced Grant na výzkum inteligentních počítačových systému schopných učit se v dynamicky měnícím se světě. *Czech Institute of Informatics, Robotics, and Cybernetics*. <https://www.ciirc.cvut.cz/cs/josef-sivic-awarded-a-prestigious-erc-advanced-grant/> (accessed Apr.5, 2023)
- [347] Automated Reasoning Group: ERC Project AI4REASON. 2020. <http://ai4reason.org/>. (accessed Feb. 20, 2024)