Machine Learning for Proofs Bibliography

The Public

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[1] Emily First and Yuriy Brun. Diversity-driven automated formal verification. In *2022 IEEE/ACM 44th International Conference on Software Engineering (ICSE)*, pages 01–13, 2022. https://people.cs.umass.edu/~brun/pubs/pubs/First22icse.pdf.

[2] Daniel Huang, Prafulla Dhariwal, Dawn Song, and Ilya Sutskever. Gamepad: A learning environment for theorem proving. In *International Conference on Learning Representations*, 2019. https://openreview.net/forum?id=r1xwKoR9Y7.

[3] Markus Norman Rabe, Dennis Lee, Kshitij Bansal, and Christian Szegedy. Mathematical reasoning via self-supervised skip-tree training. In *International Conference on Learning Representations*, 2020. https://arxiv.org/abs/2006.04757.

[4] Yuhuai Wu, Markus Norman Rabe, DeLesley Hutchins, and Christian Szegedy. Memorizing transformers. In *International Conference on Learning Representations*, 2022. https://openreview.net/forum?id=TrjbxzRcnf-.

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[5] Alex Sanchez-Stern, Yousef Alhessi, Lawrence Saul, and Sorin Lerner. Generating correctness proofs with neural networks. In *Proceedings of the 4th ACM SIGPLAN International Workshop on Machine Learning and Programming Languages*, MAPL 2020, page 1–10, New York, NY, USA, 2020. Association for Computing Machinery. https://doi.org/10.1145/3394450.3397466.

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[6] Stanislas Polu and Ilya Sutskever. Generative language modeling for automated theorem proving. *arXiv preprint arXiv:2009.03393*, 2020. https://doi.org/10.48550/arXiv.2009.03393.