preprint arXiv:2402.19469, 2024.

[74] Ilija Radosavovic, Tete Xiao, Bike Zhang, Trevor Darrell, Jitendra Malik, and Koushil Sreenath. Real-world humanoid locomotion with reinforcement learning. Science Robotics, 9(89):eadi9579, 2024.

[75] Fabio Ramos, Rafael Carvalhaes Possas, and Dieter Fox. Bayessim: adaptive domain randomization via probabilistic inference for robotics simulators. arXiv preprint arXiv:1906.01728, 2019.

[76] Allen Z Ren, Hongkai Dai, Benjamin Burchfiel, and Anirudha Majumdar. Adaptsim: Task-driven simulation adaptation for sim-to-real transfer. arXiv preprint arXiv:2302.04903, 2023.

[77] Unitree Robotics. Unitree g1 humanoid agent ai avatar, 2024. URL https://www.unitree.com/g1.

[78] Unitree Robotics. Unitree h1 the world's first full-size motor drive humanoid robot flips on ground, 2024. URL https://www.youtube.com/watch?v=V1LyWsiTgms.

[79] Nikita Rudin, David Hoeller, Philipp Reist, and Marco Hutter. Learning to walk in minutes using massively parallel deep reinforcement learning. In Conference on Robot Learning, pages 91–100. PMLR, 2022.

[80] John Schulman, Filip Wolski, Prafulla Dhariwal, Alec Radford, and Oleg Klimov. Proximal policy optimization algorithms. arXiv preprint arXiv:1707.06347, 2017.

[81] Guanya Shi, Xichen Shi, Michael O'Connell, Rose Yu, Kamyar Azizzadenesheli, Animashree Anandkumar, Yisong Yue, and Soon-Jo Chung. Neural lander: Stable drone landing control using learned dynamics. In 2019 international conference on robotics and automation (icra), pages 9784–9790. IEEE, 2019.

[82] Guanya Shi, Wolfgang Hönig, Xichen Shi, Yisong Yue, and Soon-Jo Chung. Neural-swarm2: Planning and control of heterogeneous multirotor swarms using learned interactions. IEEE Transactions on Robotics, 38(2): 1063–1079, 2021.

[83] Aditya Shirwatkar, Naman Saxena, Kishore Chandra, and Shishir Kolathaya. Pip-loco: A proprioceptive infinite horizon planning framework for quadrupedal robot locomotion. arXiv preprint arXiv:2409.09441, 2024.

[84] Tom Silver, Kelsey Allen, Josh Tenenbaum, and Leslie Kaelbling. Residual policy learning. arXiv preprint arXiv:1812.06298, 2018.

[85] Jie Tan, Tingnan Zhang, Erwin Coumans, Atil Iscen, Yunfei Bai, Danijar Hafner, Steven Bohez, and Vincent Vanhoucke. Sim-to-real: Learning agile locomotion for quadruped robots. arXiv preprint arXiv:1804.10332, 2018.

[86] Chen Tessler, Yunrong Guo, Ofir Nabati, Gal Chechik, and Xue Bin Peng. Maskedmimic: Unified physics-based character control through masked motion inpainting. ACM Transactions on Graphics (TOG), 43(6):1–21, 2024.

[87] Josh Tobin, Rachel Fong, Alex Ray, Jonas Schneider, Wojciech Zaremba, and Pieter Abbeel. Domain randomization for transferring deep neural networks from simulation to the real world. In 2017 IEEE/RSJ international conference on intelligent robots and systems (IROS), pages 23–30. IEEE, 2017.

[88] Emanuel Todorov, Tom Erez, and Yuval Tassa. Mujoco: A physics engine for model-based control. In 2012 IEEE/RSJ International Conference on Intelligent Robots and Systems, pages 5026–5033. IEEE, 2012. doi: 10.1109/IROS.2012.6386109.

[89] Hongxi Wang, Haoxiang Luo, Wei Zhang, and Hua Chen. Cts: Concurrent teacher-student reinforcement learning for legged locomotion. IEEE Robotics and Automation Letters, 2024.

[90] Jiashun Wang, Jessica Hodgins, and Jungdam Won. Strategy and skill learning for physics-based table tennis animation. In ACM SIGGRAPH 2024 Conference Papers, pages 1–11, 2024.

[91] Yinhuai Wang, Jing Lin, Ailing Zeng, Zhengyi Luo, Jian Zhang, and Lei Zhang. Physhoi: Physics-based imitation of dynamic human-object interaction. arXiv preprint arXiv:2312.04393, 2023.

[92] Yinhuai Wang, Qihan Zhao, Runyi Yu, Ailing Zeng, Jing Lin, Zhengyi Luo, Hok Wai Tsui, Jiwen Yu, Xiu Li, Qifeng Chen, et al. Skillmimic: Learning reusable basketball skills from demonstrations. arXiv preprint arXiv:2408.15270, 2024.

[93] Yufu Wang, Ziyun Wang, Lingjie Liu, and Kostas Daniilidis. Tram: Global trajectory and motion of 3d humans from in-the-wild videos. In European Conference on Computer Vision, pages 467–487. Springer, 2025.

[94] Zhicheng Wang, Wandi Wei, Ruiqi Yu, Jun Wu, and Qiuguo Zhu. Toward understanding key estimation in learning robust humanoid locomotion. arXiv preprint arXiv:2403.05868, 2024.

[95] Lior Wolf. Ai for humanoid robotics - a lecture by mentee robotics' ceo, prof. lior wolf. YouTube video, 2025. URL https://www.youtube.com/watch?v=y1LG4YwUtoo. Accessed: 2025-01-31.

[96] Peilin Wu, Weiji Xie, Jiahang Cao, Hang Lai, and Weinan Zhang. Loopsr: Looping sim-and-real for life-long policy adaptation of legged robots. arXiv preprint arXiv:2409.17992, 2024.

[97] Wenli Xiao, Haoru Xue, Tony Tao, Dvij Kalaria, John M Dolan, and Guanya Shi. Anycar to anywhere: Learning universal dynamics model for agile and adaptive mobility. arXiv preprint arXiv:2409.15783, 2024.

[98] Zhaoming Xie, Patrick Clary, Jeremy Dao, Pedro Morais, Jonanthan Hurst, and Michiel Panne. Learning locomotion skills for cassie: Iterative design and sim-to-real. In Conference on Robot Learning, pages 317–329. PMLR, 2020.

[99] Yuxiang Yang, Guanya Shi, Changyi Lin, Xiangyun Meng, Rosario Scalise, Mateo Guaman Castro, Wenhao Yu, Tingnan Zhang, Ding Zhao, Jie Tan, et al. Agile continuous jumping in discontinuous terrains. arXiv preprint arXiv:2409.10923, 2024.