

REFERENCES

- [1] Tensorflow. (2024) Tensorflow 2 detection model zoo. Accessed: 2024-09. [Online]. Available: https://github.com/tensorflow/models/blob/master/research/object_detection/g3doc/tf2_detection_zoo.md
- [2] A. P. Yunus, N. C. Shirai, K. Morita, and T. Wakabayashi, “Time series human motion prediction using rgb camera and openpos,” vol. ISASE2020, no. 1-A-4. J-STAGE, 2020, pp. 1–4.
- [3] J. Dong, W. Yang, Y. Y. Yao, and F. Porikli, “Knowledge memorization and generation for action recognition in still images,” *Pattern Recognition*, vol. 120, no. -, p. 108188, 2021.
- [4] Y. Wu, K. Zhang, D. Wu, C. Wang, C.-A. Yuan, X. Qin, T. Zhu, and Y.-C. D. Du, “Person re-identification by multi-scale feature representation learning with random batch feature mask,” *IEEE Transactions on Cognitive and Developmental Systems*, vol. 13, no. 4, pp. 865–874, 2020.
- [5] D. Lee, M. Park, Y. Baek, B. Bae, J. Heo, and K. Lee, “In-sensor image memorization and encoding via optical neurons for bio-stimulus domain reduction toward visual cognitive processing,” *Nat Commun*, vol. 13, no. 1, p. 5223, 2022.
- [6] S. Yanagihara and H. Koga, “Differences in human and ai memory for memorization, recall, and selective forgetting,” in *Societal Challenges in the Smart Society*. Universidad de La Rioja, 2020, pp. 371–384.
- [7] A. Gumei, M. M. Hassan, R. M. Hassan, A. Alelaiwi, and G. Fortino, “A hybrid feature extraction method with regularized extreme learning machine for brain tumor classification,” *Digital Object Identifier*, vol. 7, pp. 36 266–36 273, 2019.
- [8] L. Yan, Y. Shi, M. Wei, and Y. Wu, “Multi-feature fusing local directional ternary pattern for facial expressions signal recognition based on video communication system,” *Alexandria Engineering Journal*, vol. 63, pp. 307–320, 2023.

- [9] L. Yan, X. Hu, L. Zhao, Y. Chen, P. Wei, and H. Xie, “Dgs-slam: A fast and robust rgbd slam in dynamic environments combined by geometric and semantic information,” *Remote Sensing*, vol. 14, no. 3, p. 795, 2022.
- [10] D. Esparza and G. Flores, “The stdyn-slam: A stereo vision and semantic segmentation approach for vslam in dynamic outdoor environments,” *Digital Object Identifier IEEE*, vol. 10, pp. 18 201–18 209, 2022.
- [11] H. Matsuki, R. Scona, J. Czarnowski, and A. J. Davison, “Codemapping: Real-time dense mapping for sparse slam using compact scene representations,” *Robotics and Automation IEEE*, vol. 6, no. 4, pp. 7105–7112, 2021.
- [12] A. Moreau, T. Gilles, N. Piasco, D. Tsishkou, B. Stanciulescu, and A. de La Fortelle, “Imposing: Implicit pose encoding for efficient visual localization,” in *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision*, 2023, pp. 2892–2902.
- [13] L. Squadrani, N. Curti, E. Giampieri, D. Remondini, B. Blais, and G. Castellani, “Effectiveness of biologically inspired neural network models in learning and patterns memorization,” *Entropy*, vol. 24, no. 5, p. 682, 2022.
- [14] C. Siagian and L. Itti, “Biologically inspired mobile robot vision localization,” *Transactions on Robotics IEEE*, vol. 25, no. 4, pp. 861–873, 2009.
- [15] S. Srivastava, A. V. Divekar, C. Anilkumar, I. Naik, V. Kulkarni, and V. Pattabiraman, “Comparative analysis of deep learning image detection algorithms,” *Journal of Big data*, vol. 8, no. 1, p. 66, 2021.
- [16] J. Howse and J. Minichino, *Learning OpenCV 4 Computer Vision with Python 3 Third Edition*. Packt Publishing Ltd., Brimingham, UK, 2013.
- [17] O. Siméoni, C. Sekkat, G. Puy, A. Vobecký, É. Zablocki, and P. Pérez, “Unsupervised object localization: Observing the background to discover objects,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, 2023, pp. 3176–3186.
- [18] M. Bansal, M. Kumar, and M. Kumar, “2d object recognition: a comparative analysis of sift, surf and orb feature descriptors,” *Multimedia Tools and Applications*, vol. 80, no. 12, pp. 18 839–18 857, 2021.
- [19] C. Stephenson, S. Padhy, A. Ganesh, Y. Hui, H. Tang, and S. Chung, “On the geometry of generalization and memorization in deep neural networks,” *arXiv preprint arXiv:2105.14602*, 2021.

- [20] N. Taghinezhad and M. Yazdi, “A new unsupervised video anomaly detection using multi-scale feature memorization and multipath temporal information prediction,” *IEEE Access*, vol. 11, no. -, pp. 9295–9310, 2022.
- [21] A. Shewalkar, D. Nyavanandi, and S. A. Ludwig, “Performance evaluation of deep neural networks applied to speech recognition: Rnn, lstm and gru,” *Journal of Artificial Intelligence and Soft Computing Research*, vol. 9, no. 4, pp. 234–245, 2019.
- [22] P. Barry, *Head First Python*. ”O’Reilly Media, Inc”, 2010.
- [23] A. M. Barros, M. Michel, M. Yoann, G. Corre, and F. Carrel, “A comprehensive survey of visual slam algorithms,” *Motion Planning and Control for Robotics*, vol. 11, no. 1, p. 24, 2022.
- [24] D. Wierzbicki and P. Stogowski, “Application of stereo cameras with wide-angle lenses for the indoor mapping,” *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences ISPRS*, vol. 43, pp. 477–484, 2022.
- [25] B. Gao, H. Lang, and J. Ren, “Stereo visual slam for autonomous vehicles: A review,” in *2020 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*. IEEE, 2020, pp. 1316–1322.
- [26] R. Horaud, M. Hansard, G. Evangelidis, and C. M  nier, “An overview of depth cameras and range scanners based on time-of-flight technologies,” *Machine vision and applications*, vol. 27, no. 7, pp. 1005–1020, 2016.
- [27] S. Zhang, “High-speed 3d shape measurement with structured light methods: A review,” *Optics and lasers in engineering*, vol. 106, pp. 119–131, 2018.
- [28] T. Hachaj, “Potential obstacle detection using rgb to depth image encoder-decoder network: Application to unmanned aerial vehicles,” *Sensors*, vol. 22, no. 17, p. 6703, 2022.
- [29] B. Keifer, Y. Quan, and A. Zell, “Memory maps for video object detection and tracking on uavs,” *arXiv preprint arXiv:2303.03508*, 2023.
- [30] T. Ghosh Mondal, M. R. Jahanshahi, R.-T. Wu, and Z. Y. Wu, “Deep learning-based multi-class damage detection for autonomous post-disaster reconnaissance,” *Structural Control and Health Monitoring*, vol. 27, no. 4, p. e2507, 2020.