

REFERENCES

- Breiding, P., Kohn, K. and Sturmfels, B., 2024. Computer Vision. In: *Metric Algebraic Geometry*, Oberwolfach Seminars. [online] Cham: Springer Nature Switzerland. pp.163–174. https://doi.org/10.1007/978-3-031-51462-3_13.
- Chaudhary, I., Thoiba Singh, N., Chaudhary, M. and Yadav, K., 2023. Real-Time Yoga Pose Detection Using OpenCV and MediaPipe. In: *2023 4th International Conference for Emerging Technology (INCET)*. [online] 2023 4th International Conference for Emerging Technology (INCET). Belgaum, India: IEEE. pp.1–5. <https://doi.org/10.1109/INCET57972.2023.10170485>.
- Du, S. and Lee, S., 2022. Home Training Development Trend Analysis in Period of COVID-19 By Using Big Data. *Journal of Sport and Leisure Studies*, 90, pp.309–322. <https://doi.org/10.51979/KSSLS.2022.10.90.309>.
- Dwibedi, D., Aytar, Y., Tompson, J., Sermanet, P. and Zisserman, A., 2020. Counting Out Time: Class Agnostic Video Repetition Counting in the Wild. In: *2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*. [online] 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR). Seattle, WA, USA: IEEE. pp.10384–10393. <https://doi.org/10.1109/CVPR42600.2020.01040>.
- Goodfellow, I., Bengio, Y. and Courville, A., 2023. *Deep Learning*. Erscheinungsort nicht ermittelbar: Alanna Maldonado.
- Jocher, G. and Qiu, J., 2024. *Ultralytics YOLO11*. Available at: <<https://github.com/ultralytics/ultralytics>>.
- Destro, M., 2024. *materight/RepNet-pytorch*. Available at: <<https://github.com/materight/RepNet-pytorch>> [Accessed 5 November 2024].
- Kotte, H., Kravcik, M. and Duong-Trung, N., 2023. Real-Time Posture Correction in Gym Exercises: A Computer Vision-Based Approach for Performance Analysis, Error Classification and Feedback.
- Lin, T.-Y., Maire, M., Belongie, S., Bourdev, L., Girshick, R., Hays, J., Perona, P., Ramanan, D., Zitnick, C.L. and Dollár, P., 2015. *Microsoft COCO: Common Objects in Context*.
- O'Reilly, M., Caulfield, B., Ward, T., Johnston, W. and Doherty, C., 2018. Wearable Inertial Sensor Systems for Lower Limb Exercise Detection and Evaluation:

- A Systematic Review. *Sports Medicine*, 48(5), pp.1221–1246.
<https://doi.org/10.1007/s40279-018-0878-4>.
- Rangari, T., Kumar, S., Roy, P.P., Dogra, D.P. and Kim, B.-G., 2022. Video based exercise recognition and correct pose detection. *Multimedia Tools and Applications*, 81(21), pp.30267–30282.
<https://doi.org/10.1007/s11042-022-12299-z>.
- Samkari, E., Arif, M., Alghamdi, M. and Al Ghamdi, M.A., 2023. Human Pose Estimation Using Deep Learning: A Systematic Literature Review. *Machine Learning and Knowledge Extraction*, 5(4), pp.1612–1659.
<https://doi.org/10.3390/make5040081>.
- Upadhyay, A., Basha, N.K. and Ananthakrishnan, B., 2023. Deep Learning-Based Yoga Posture Recognition Using the Y_PN-MSSD Model for Yoga Practitioners. *Healthcare*, 11(4), p.609.
<https://doi.org/10.3390/healthcare11040609>.
- Wang, J., Tan, S., Zhen, X., Xu, S., Zheng, F., He, Z. and Shao, L., 2021. Deep 3D human pose estimation: A review. *Computer Vision and Image Understanding*, 210, p.103225. <https://doi.org/10.1016/j.cviu.2021.103225>.
- Zhang, S., Kaisar, E., Han, T., Liang, R. and Qiu, S., 2023. Designing At-Home Workout Products to Improve Sub-health of Young People. In: C. Stephanidis, M. Antona, S. Ntoa and G. Salvendy, eds. *HCI International 2023 Posters*, Communications in Computer and Information Science. [online] Cham: Springer Nature Switzerland. pp.224–229.
https://doi.org/10.1007/978-3-031-35992-7_31.
- Levy, O. and Wolf, L., 2015. Live Repetition Counting. In: *2015 IEEE International Conference on Computer Vision (ICCV)*. [online] 2015 IEEE International Conference on Computer Vision (ICCV). Santiago, Chile: IEEE. pp.3020–3028. <https://doi.org/10.1109/ICCV.2015.346>.
- Pogalin, E., Smeulders, A.W.M. and Thean, A.H.C., 2008. Visual quasi-periodicity. In: *2008 IEEE Conference on Computer Vision and Pattern Recognition*. [online] 2008 IEEE Conference on Computer Vision and Pattern Recognition (CVPR). Anchorage, AK, USA: IEEE. pp.1–8.
<https://doi.org/10.1109/CVPR.2008.4587509>.
- Runia, T.F.H., Snoek, C.G.M. and Smeulders, A.W.M., 2018. *Real-World Repetition*

Estimation by Div, Grad and Curl.

<https://doi.org/10.48550/ARXIV.1802.09971>.