Resource Summary Report

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OpenCV

RRID:SCR_015526
Type: Tool

Proper Citation

OpenCV (RRID:SCR_015526)

Resource Information

URL: http://opencv.org

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Description: Computer vision and machine learning software library which provides a common infrastructure for computer vision applications. The algorithms within the library can be used to detect and recognize faces, identify objects, classify human actions in videos, track camera movements and moving objects, extract 3D models of objects, produce 3D point clouds from stereo cameras, stitch images together to produce a high resolution image of an entire scene, find similar images from an image database, and follow eye movements, recognize scenery and establish markers to overlay it with augmented reality. It has C++, C, Python, Java and MATLAB interfaces.

Synonyms: Open Source Computer Vision Library

Resource Type: algorithm resource, software resource

Keywords: software library, computer vision, machine learning

Resource Name: OpenCV

Resource ID: SCR_015526

Alternate URLs: https://github.com/opencv

License: BSD License

Record Creation Time: 20220129T080326+0000

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Ratings and Alerts

No rating or validation information has been found for OpenCV.

No alerts have been found for OpenCV.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2428 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Naftchi-Ardebili K, et al. (2026) A deep-learning model for one-shot transcranial ultrasound simulation and phase aberration correction. Medical physics, 53(1), e70259.

Eyal Z, et al. (2026) pH variations enable guanine crystal formation within iridosomes. Nature chemical biology, 22(1), 19.

Shen M, et al. (2026) Self-supervised AI for decoding and designing disordered metamaterials. Science advances, 12(1), eadx7389.

Ning T, et al. (2026) A DLF multi-scale quantitative research method for the big five personality traits. Scientific reports, 16(1), 251.

Hu Y, et al. (2026) Heat stress assessment in chickens via key head region temperature measurement using semantic segmentation and cross-modal RGB-IR collaboration. Poultry science, 105(1), 106151.

Salturk S, et al. (2026) Contactless biometric verification from in-air signatures using deep siamese networks. Scientific reports, 16(1), 130.

Laniado DD, et al. (2025) A spherical code of retinal orientation selectivity enables decoding in ensembled and retinotopic operation. Cell reports, 44(3), 115373.

Hoang DT, et al. (2025) Path2Omics Enhances Transcriptomic and Methylation Prediction Accuracy from Tumor Histopathology. Cancer research, 85(24), 5098.

Stupichev D, et al. (2025) AI-driven multimodal algorithm predicts immunotherapy and targeted therapy outcomes in clear cell renal cell carcinoma. Cell reports. Medicine, 6(8), 102299.

Hu F, et al. (2025) The systemic wrinkled skin phenotype involves aberrant expression and variation of genes related to the oxidative stress and extracellular matrix in Xiang pigs. BMC genomics, 26(1), 1034.

He S, et al. (2025) Deep learning algorithms from histopathological images stratify molecular subtypes for leiomyosarcoma: a proof-and-concept diagnostic study. International journal of surgery (London, England), 111(9), 5959.

Nimkar K, et al. (2025) Molecular and spatial analysis of ganglion cells on retinal flatmounts identifies perivascular neurons resilient to glaucoma. Neuron.

Long Z, et al. (2025) Intravital observation of neuronal and immune cell dynamics in the developing mammalian brain. Cell.

Nobori T, et al. (2025) A rare PRIMER cell state in plant immunity. Nature, 638(8049), 197.

Guo M, et al. (2025) Deep learning-based aberration compensation improves contrast and resolution in fluorescence microscopy. Nature communications, 16(1), 313.

Naghibosadat M, et al. (2025) Vaccination against SARS-CoV-2 provides low-level cross-protection against common cold coronaviruses in mouse and non-human primate animal models. Journal of virology, 99(2), e0139024.

O'Keeffe M, et al. (2025) Typical development of synaptic and neuronal properties can proceed without microglia in the cortex and thalamus. Nature neuroscience, 28(2), 268.

Peek JJ, et al. (2025) A novel 3D image registration technique for augmented reality vision in minimally invasive thoracoscopic pulmonary segmentectomy. International journal of computer assisted radiology and surgery, 20(4), 787.

de Haro S, et al. (2025) A ViTUNeT-based model using YOLOv8 for efficient LVNC diagnosis and automatic cleaning of dataset. Journal of integrative bioinformatics, 22(2).

Guo Z, et al. (2025) Enhancing colorectal polyp classification using gaze-based attention networks. PeerJ. Computer science, 11, e2780.