

Resource Summary Report

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tensorflow

RRID:SCR_016345

Type: Tool

Proper Citation

tensorflow (RRID:SCR_016345)

Resource Information

URL: <https://www.tensorflow.org/>

Proper Citation: tensorflow (RRID:SCR_016345)

Description: Software as an open source machine learning framework for everyone. Library for high performance numerical computation. Allows deployment of computation across a variety of platforms (CPUs, GPUs, TPUs), and from desktops to clusters of servers to mobile and edge devices.

Resource Type: software library, software resource, software toolkit

Keywords: high, performance, numerical, computation, machine, learning, framework, everyone, bio.tools

Funding: Google

Availability: Free, Available for download, Freely available

Resource Name: tensorflow

Resource ID: SCR_016345

Alternate IDs: biotools:tensorflow

Alternate URLs: <https://github.com/tensorflow/tensorflow>, <https://bio.tools/tensorflow>, <https://sources.debian.org/src/libtensorflow-framework2/>

License: Apache License

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260821T194045+0000

Ratings and Alerts

No rating or validation information has been found for tensorflow.

No alerts have been found for tensorflow.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 724 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Mathewlynn S, et al. (2026) First-trimester Placental Ultrasound (FirstPLUS) study: prediction of fetal growth restriction using OxNNet-derived first-trimester placental volume. *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*, 67(1), 49.

Benke CV, et al. (2026) Ultra-high-resolution synchrotron phase-contrast CT enables microstructural pulmonary imaging at clinical dose levels. *Respiratory research*, 27(1).

Sugimoto H, et al. (2026) Use of continuous glucose monitoring to stratify individuals without diabetes. *Communications medicine*, 6(1).

Rau L, et al. (2026) A Two-Stage Localization and Refinement Neural Network Structure for Data-Efficient Microbleed Detection. *Brain sciences*, 16(2).

Skibbe H, et al. (2026) Memory efficient training for 3D brain image registration networks using PatchMorph. *Scientific reports*, 16(1).

Moratti S, et al. (2026) Uncovering Heart Rate Response Patterns to Threat Pictures Through Deep Latent Representation Learning with a Variational Autoencoder. *Psychophysiology*, 63(5), e70314.

Li Q, et al. (2026) Tissue-specific transfer learning improves functional variant and therapeutic target discoveries in breast and prostate cancer. *PLoS genetics*, 22(5), e1012145.

David MA, et al. (2026) Demystifying machine learning approaches in digital bone imaging using microCT and HRpQCT. *Bone reports*, 29, 101911.

Koh KY, et al. (2026) Efficacy of Spectral-Aided Visual Enhancer in Classification of Esophageal Cancer. *Cancers*, 18(10).

Hong SS, et al. (2026) A digital archive reveals how a funding agency cooperated with academics to support the nascent field of genomics. *Nature communications*, 17(1).

de Sousa Pereira E, et al. (2026) Deep learning-enhanced QSAR modeling for predicting developmental neurotoxicity based on molecular initiating events from adverse outcome

pathways. *Molecular diversity*, 30(2), 2627.

Lin Y, et al. (2026) Deep learning algorithm for semiquantification of spinal inflammation in axial spondyloarthritis. *RMD open*, 12(1).

Lahza HFM, et al. (2026) Deep reinforcement learning for network resource optimization in MIMO-NOMA networks to maximize utilization with minimal overhead. *Scientific reports*, 16(1).

Li Z, et al. (2026) Noise2Average: An iterative residual learning strategy for image denoising without clean data. *Imaging neuroscience (Cambridge, Mass.)*, 4.

Flouri D, et al. (2026) A deep learning algorithm for automatic 3D segmentation and classification of the sheep placenta in magnetic resonance images. *Physiological reports*, 14(8), e70869.

Dickerson AL, et al. (2026) High-resolution in situ imaging reveals size-specific moonlight responses in zooplankton diel vertical migration. *Scientific reports*, 16(1), 4086.

Ieva S, et al. (2026) Cloud-Edge MLOps for Diagnostic Analytics and Anomaly Detection in Smart Office Digital Twins. *Sensors (Basel, Switzerland)*, 26(12).

Smith A, et al. (2026) Cross-platform metabolomics imputation using importance-weighted autoencoders. *NPJ systems biology and applications*, 12(1), 23.

von Borries K, et al. (2026) Uncertainty-aware machine learning to predict non-cancer human toxicity for the global chemicals market. *Nature communications*, 17(1), 647.

Mahapatra P, et al. (2026) Advancing plant disease classification using an attention-based CNN for intra-dataset and cross- dataset training. *Scientific reports*, 16(1).