

Resource Summary Report

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Simulink

RRID:SCR_014744

Type: Tool

Proper Citation

Simulink (RRID:SCR_014744)

Resource Information

URL: <https://www.mathworks.com/products/simulink/>

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Description: Block diagram environment that contains a graphical editor, customizable block libraries, and solvers for multidomain simulation and model-based design in MATLAB. It supports simulation, automatic code generation, and continuous test and verification of embedded systems.

Resource Type: software toolkit, software resource, software application, simulation software

Keywords: matlab, block diagram, multidomain simulation, simulation software, model based design, automatic code generation

Availability: Commercially available, Free trial available

Resource Name: Simulink

Resource ID: SCR_014744

License URLs:

https://www.mathworks.com/company/aboutus/policies_statements.html?s_tid=gf_priv

Record Creation Time: 20220129T080322+0000

Record Last Update: 20260731T042924+0000

Ratings and Alerts

No rating or validation information has been found for Simulink.

No alerts have been found for Simulink.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 364 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Reynolds RF, et al. (2025) Effects of Altered Haptic Feedback Gain Upon Balance Are Explained by Sensory Conflict Estimation. The European journal of neuroscience, 61(1), e16670.

Liu X, et al. (2025) ResGRU: A Novel Hybrid Deep Learning Model for Compound Fault Diagnosis in Photovoltaic Arrays Considering Dust Impact. Sensors (Basel, Switzerland), 25(4).

A RT, et al. (2025) Integrating data-driven and physics-based approaches for robust wind power prediction: A comprehensive ML-PINN-Simulink framework. Scientific reports, 15(1), 29102.

Fabbri R, et al. (2025) Digitoids: a novel computational platform for mimicking oxygen-dependent firing of neurons in vitro. Frontiers in neuroinformatics, 19, 1549916.

Palani P, et al. (2025) Empirical classification of fatigue-induced physiological tremor in robot-assisted manipulation tasks using BiLSTM-GRU network. Frontiers in rehabilitation sciences, 6, 1474203.

Ali AM, et al. (2025) Optimized Model Predictive Control for improving dynamic stability and steering accuracy in multi-axle cranes. PloS one, 20(7), e0324720.

Becker P, et al. (2025) Development and validation of collaborative robot-assisted cutting method for iliac crest flap raising: Randomized crossover trial. Scientific reports, 15(1), 16909.

Ansari S, et al. (2025) Experimental characterization and modeling of a new bulk multi-mode magnetostrictive actuator. Scientific reports, 15(1), 39567.

Trout MA, et al. (2025) Reinforcement Learning Agent Trained as FES Controller in Modified Xia-Law Simulation Robustly Controls Grip Force. Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference, 2025, 1.

Li T, et al. (2025) Improved GOA-based fuzzy PI speed control of PMSM with predictive current regulation. PloS one, 20(1), e0318094.

Cruz-Fernández M, et al. (2025) Model Parametrization-Based Genetic Algorithms Using Velocity Signal and Steady State of the Dynamic Response of a Motor. Biomimetics (Basel, Switzerland), 10(3).

Tulimieri DT, et al. (2025) A pilot study for self-guided, active robotic training of proprioception of the upper limb in chronic stroke. *Journal of neuroengineering and rehabilitation*, 22(1), 130.

Özbaltan M, et al. (2025) Task Scheduling of Multiple Humanoid Robot Manipulators by Using Symbolic Control. *Biomimetics* (Basel, Switzerland), 10(6).

Zhuwawu SS, et al. (2025) Leveraging LSTM, tactile sensors, and haptic feedback to augment prosthetic control via grasp type prediction and grasp type feedback. *Scientific reports*, 15(1), 29781.

Adil AA, et al. (2025) A multi-robot collaborative manipulation framework for dynamic and obstacle-dense environments: integration of deep learning for real-time task execution. *Frontiers in robotics and AI*, 12, 1585544.

Perra E, et al. (2025) Physiological Control of Realheart Total Artificial Heart. *Artificial organs*, 49(10), 1548.

Hao X, et al. (2025) Deep reinforcement learning enhanced PID control for hydraulic servo systems in injection molding machines. *Scientific reports*, 15(1), 23005.

Abart T, et al. (2025) Accuracy of the HeartMate 3 Left Ventricular Assist Device Flow Estimation. *Scientific reports*, 15(1), 18971.

Liu X, et al. (2025) Target-tracking control method for autonomous vehicles based on hyperbolic-tangent line-of-sight guidance and odometry error compensation. *PloS one*, 20(5), e0322648.

Milles A, et al. (2025) Experimental verification of the six sectors neural DTC approach of squirrel cage induction motors. *Scientific reports*, 15(1), 10787.