

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 resource, software application, software toolkit, 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: 20260801T042734+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 [PRECISE-TBI](#).

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.