

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: simulation software, software application, software resource, software toolkit

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: 20260905T132750+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 396 mentions in open access literature.

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

Phathaisuang W, et al. (2026) An accessible 2D video-based gait analysis framework with model-based illustration of joint torque and power trends. Scientific reports, 16(1).

Cohen HN, et al. (2026) Effects of Belt Accelerations During Push-Off on Propulsion Mechanics in Individuals Post-Stroke. IEEE transactions on neural systems and rehabilitation engineering : a publication of the IEEE Engineering in Medicine and Biology Society, 34, 1746.

Dai Y, et al. (2026) Sliding sampling and successive variational mode decomposition CNN-BiLSTM-attention based fault detection and early warning method for DC microgrid. Scientific reports, 16(1).

Ali M, et al. (2026) Analytical framework for evaluating NMPC-based robot navigation in fluid environments. PloS one, 21(3), e0333056.

Dong Y, et al. (2026) Improved circle-SCA-BSO optimized gas turbine speed PID controller for enhanced speed tracking and interference rejection. Scientific reports, 16(1), 5871.

Suresh K, et al. (2026) A high-efficiency multi-port bidirectional converter for renewable energy and hybrid electric vehicle applications. Scientific reports, 16(1).

P??rez JCN, et al. (2026) FPGA realization of fractional-order chaotic oscillators using ABM and EFORK methods. Scientific reports, 16(1).

Holliger NS, et al. (2026) Evidence for Increased High Alpha Intermuscular Coherence as a Measure of Reticulospinal Motor Drive. The European journal of neuroscience, 63(8), e70517.

Ishida M, et al. (2026) The undulating tripod gait as a model of the locomotion of walking fish. Nature communications, 17(1).

Morrison MW, et al. (2026) Maintaining Seated Posture With Feedback Control of Trunk Musculature Via the Networked Neuroprosthesis After Paralysis: A Case Report. American journal of physical medicine & rehabilitation, 105(3S Suppl 2), S90.

Budak S, et al. (2026) Disturbance-tolerant quadrotor control using a hybrid LQR and super-twisting sliding mode approach. Scientific reports, 16(1).

Zhang Q, et al. (2026) Evaluation of open-source robotic-assisted additive manufacturing equipment for additively manufactured three-dimensional curved structure. Scientific

reports, 16(1).

Soued S, et al. (2026) Experimental validation of metaheuristic-optimized control for standalone DFIG dynamic performance enhancement. Scientific reports, 16(1).

Yang P, et al. (2026) Application of optimal power point tracking technology in distributed grid-connected photovoltaic systems. PloS one, 21(4), e0344494.

du Bois N, et al. (2026) Advancing EEG-based assessment of consciousness and cognition in prolonged disorders of consciousness. Communications medicine, 6(1).

Zeb O, et al. (2026) Smart grid inverter control: integrating RNN, model predictive, and adaptive sliding mode controller for optimal harmonic mitigation. Scientific reports, 16(1).

Irfan M, et al. (2026) Design of a fault-tolerant control system for a centrifugal pump-based level control system for sensor faults. Scientific reports, 16(1).

Tang D, et al. (2026) Simulation degradation datasets for health prognosis of a control moment gyroscope's flywheel system. Data in brief, 67, 112877.

Salem AI, et al. (2026) SQUID-COMM: a Colossal Squid-inspired distributed communication framework for real-time multi-node aquaculture monitoring networks with adaptive bioluminescent signaling and neuromorphic edge intelligence. Scientific reports, 16(1).

Guo YQ, et al. (2026) A Loss Separation-Based Dynamic Jiles-Atherton-Bingham Model for Magnetorheological Dampers. Sensors (Basel, Switzerland), 26(4).