

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: 20260821T194028+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 [ASWG](#) .

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

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).

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).

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

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

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

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.

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.

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).