PhysioNet
RRID:SCR_007345
Type: Tool

Proper Citation

PhysioNet (RRID:SCR_007345)

Resource Information

**URL:** http://www.physionet.org/

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**Description:** Collection of dissemination and exchange recorded biomedical signals and open-source software for analyzing them. Provides facilities for cooperative analysis of data and evaluation of proposed new algorithm. Provides free electronic access to PhysioBank data and PhysioToolkit software. Offers service and training via on-line tutorials to assist users at entry and more advanced levels. In cooperation with annual Computing in Cardiology conference, PhysioNet hosts series of challenges, in which researchers and students address unsolved problems of clinical or basic scientific interest using data and software provided by PhysioNet. All data included in PhysioBank, and all software included in PhysioToolkit, are carefully reviewed. Researchers are further invited to contribute data and software for review and possible inclusion in PhysioBank and PhysioToolkit. Please review guidelines before submitting material.

**Abbreviations:** PhysioNet


**Resource Type:** storage service resource, database, analysis service resource, service resource, data or information resource, data repository, production service resource, data analysis service

**Defining Citation:** PMID:22256277, PMID:14716615, PMID:14632011, PMID:11446213, PMID:10851218

**Keywords:** physiologic, physiology, signal, software, research, biomedical, cardiopulmonary,
Related Condition: Aging

Funding Agency: NIBIB, NIGMS

Availability: Free, Freely available

Resource Name: PhysioNet

Resource ID: SCR_007345

Alternate IDs: nif-0000-00250, DOI:10.13026, DOI:10.17616/R3D06S, DOI:10.25504/FAIRsharing.bemzxg


Ratings and Alerts

No rating or validation information has been found for PhysioNet.

No alerts have been found for PhysioNet.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 342 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.

Muller BH, et al. (2023) Sparse Decomposition of Heart Rate Using a Bernoulli-Gaussian Model: Application to Sleep Apnoea Detection. Sensors (Basel, Switzerland), 23(7).

Xiao R, et al. (2023) Integrating multimodal information in machine learning for classifying acute myocardial infarction. Physiological measurement, 44(4).

Lin YD, et al. (2023) A Frequency Estimation Scheme Based on Gaussian Average Filtering Decomposition and Hilbert Transform: With Estimation of Respiratory Rate as an Example. Sensors (Basel, Switzerland), 23(8).

McLean MK, et al. (2023) A Sliding Scale Signal Quality Metric of Photoplethysmography
Applicable to Measuring Heart Rate across Clinical Contexts with Chest Mounting as a Case Study. Sensors (Basel, Switzerland), 23(7).


Bo X, et al. (2023) Performance of the heart failure risk scores in predicting 1 year mortality and short-term readmission of patients. ESC heart failure, 10(1), 502.


Hao S, et al. (2023) Association Between Neutrophil-Lymphocyte Ratio and All-Cause Mortality in Critically Ill Patients with Chronic Obstructive Pulmonary Disease: A Retrospective Cohort Study. Medical science monitor : international medical journal of experimental and clinical research, 29, e938554.


Samimi H, et al. (2023) A PPG-Based Calibration-Free Cuffless Blood Pressure Estimation Method Using Cardiovascular Dynamics. Sensors (Basel, Switzerland), 23(8).


Calderón-Juárez M, et al. (2023) Nonlinear Dynamics of Heart Rate Variability after Acutely Induced Myocardial Ischemia by Percutaneous Transluminal Coronary Angioplasty. Entropy (Basel, Switzerland), 25(3).

Topalidis P, et al. (2023) The Virtual Sleep Lab-A Novel Method for Accurate Four-Class Sleep Staging Using Heart-Rate Variability from Low-Cost Wearables. Sensors (Basel, Switzerland), 23(5).


