Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

SocioPatterns

RRID:SCR_005739
Type: Tool

Proper Citation

SocioPatterns (RRID:SCR_005739)

Resource Information

URL: http://www.sociopatterns.org/

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Description: SocioPatterns is an interdisciplinary research collaboration that adopts data-driven methodology with the aim of uncovering fundamental patterns in social dynamics and coordinated human activity. To achieve its scientific goals, the SocioPatterns collaboration also contributes to the development of new technologies for collecting relevant data. In particular, the collaboration supports the development of the SocioPatterns sensing platform, which uses wireless wearable sensors to gather longitudinal data on human mobility and face-to-face proximity in real-world environments. The SocioPatterns team also works on developing tools and techniques to represent, analyze and visualize the collected data. We increasingly use digital media and computational devices in our daily activities, and leave behind a sizable amount of digital traces while doing so. The proliferation of mobile devices, and the incorporation of various sensing technologies in these devices, will further add to this growing trail of data. The possibility to mine and analyze these data, and the scale at which this can be done on contemporary computer systems, affords a novel, data-driven approach in the investigation of various aspects of human behavior. The following collection of datasets obtained through the SocioPatterns sensing platform are available: * Infectious SocioPatterns dynamic contact networks * Hypertext 2009 dynamic contact network * Primary school cumulative networks * Infectious SocioPatterns

Abbreviations: SocioPatterns

Synonyms: Socio Patterns

Resource Type: service resource, material service resource, instrument manufacture, production service resource, portal, data or information resource

Keywords: social dynamics, human activity, sensor, human mobility, face-to-face proximity, contact network, infectious disease, child, early human

Funding: Institute for Scientific Interchange Foundation ;
CNRS

Resource Name: SocioPatterns

Resource ID: SCR_005739

Alternate IDs: nlx_149199

Record Creation Time: 20220129T080232+0000

Record Last Update: 20260728T043221+0000

Ratings and Alerts

No rating or validation information has been found for SocioPatterns.

No alerts have been found for SocioPatterns.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 67 mentions in open access literature.

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

Bart Peters HA, et al. (2025) Higher-order temporal network prediction and interpretation. PloS one, 20(5), e0323753.

Banholzer N, et al. (2025) The relative contribution of close-proximity contacts, shared classroom exposure and indoor air quality to respiratory virus transmission in schools. Nature communications, 16(1), 11678.

Casiraghi G, et al. (2025) Empirical networks are sparse: Enhancing multiedge models with zero-inflation. PNAS nexus, 4(1), pgaf001.

Atzmueller M, et al. (2025) Mining exceptional social behavior on attributed interaction networks. Machine learning, 114(11), 243.

Farahi Z, et al. (2025) Critical node detection in temporal social networks, based on global and semi-local centrality measures. PloS one, 20(8), e0327699.

Blaškovi? F, et al. (2025) Random walk based snapshot clustering for detecting community dynamics in temporal networks. Scientific reports, 15(1), 24414.

Arregui-García B, et al. (2024) Patterns in Temporal Networks with Higher-Order Egocentric Structures. Entropy (Basel, Switzerland), 26(3).

Dall'Amico L, et al. (2024) An embedding-based distance for temporal graphs. Nature communications, 15(1), 9954.

Aguolu OG, et al. (2024) Comprehensive profiling of social mixing patterns in resource poor countries: A mixed methods research protocol. PloS one, 19(6), e0301638.

Gallo L, et al. (2024) Higher-order correlations reveal complex memory in temporal hypergraphs. Nature communications, 15(1), 4754.

Badalyan A, et al. (2024) Structure and inference in hypergraphs with node attributes. Nature communications, 15(1), 7073.

Contreras DA, et al. (2024) Infection patterns in simple and complex contagion processes on networks. PLoS computational biology, 20(6), e1012206.

Dall'Amico L, et al. (2024) Estimating household contact matrices structure from easily collectable metadata. PloS one, 19(3), e0296810.

Neal ZP, et al. (2024) How strong is strong? The challenge of interpreting network edge weights. PloS one, 19(10), e0311614.

St-Onge G, et al. (2024) Nonlinear bias toward complex contagion in uncertain transmission settings. Proceedings of the National Academy of Sciences of the United States of America, 121(1), e2312202121.

Mancastroppa M, et al. (2023) Hyper-cores promote localization and efficient seeding in higher-order processes. Nature communications, 14(1), 6223.

Sheng A, et al. (2023) Evolutionary dynamics on sequential temporal networks. PLoS computational biology, 19(8), e1011333.

Ceria A, et al. (2023) Temporal-topological properties of higher-order evolving networks. Scientific reports, 13(1), 5885.

Bhaumik J, et al. (2023) Fixation probability in evolutionary dynamics on switching temporal networks. Journal of mathematical biology, 87(5), 64.

Sheng A, et al. (2023) Constructing temporal networks with bursty activity patterns. Nature communications, 14(1), 7311.