



# Репозитории научных данных и сети знаний

**Соколова Наталия Викторовна**, директор Центра информационно-библиотечных систем,  
Информационно-библиотечный комплекс  
Санкт-Петербургского политехнического университета Петра Великого

# Цифровая трансформация науки

**Сейчас конфликт:** новые методы/объекты/инструменты исследований, но традиционные методы научных коммуникаций.

**Цель:** переосмысление/реорганизация форм и методов представления знаний, результатов исследований для обеспечения быстрого распространения, повторного использования полученных результатов

**Методы:**

- Использование исследовательских данных наряду с научными статьями и монографиями
- Верификация результатов исследований (финансирующей организацией, другими исследователями)
- Создание национальной облачной инфраструктуры научно-технической информации
- Совместимость с глобальном научно-образовательном пространством

**В России:** нет практики сохранения, повторного использования и учета исследовательских данных

# Пирамида научных результатов



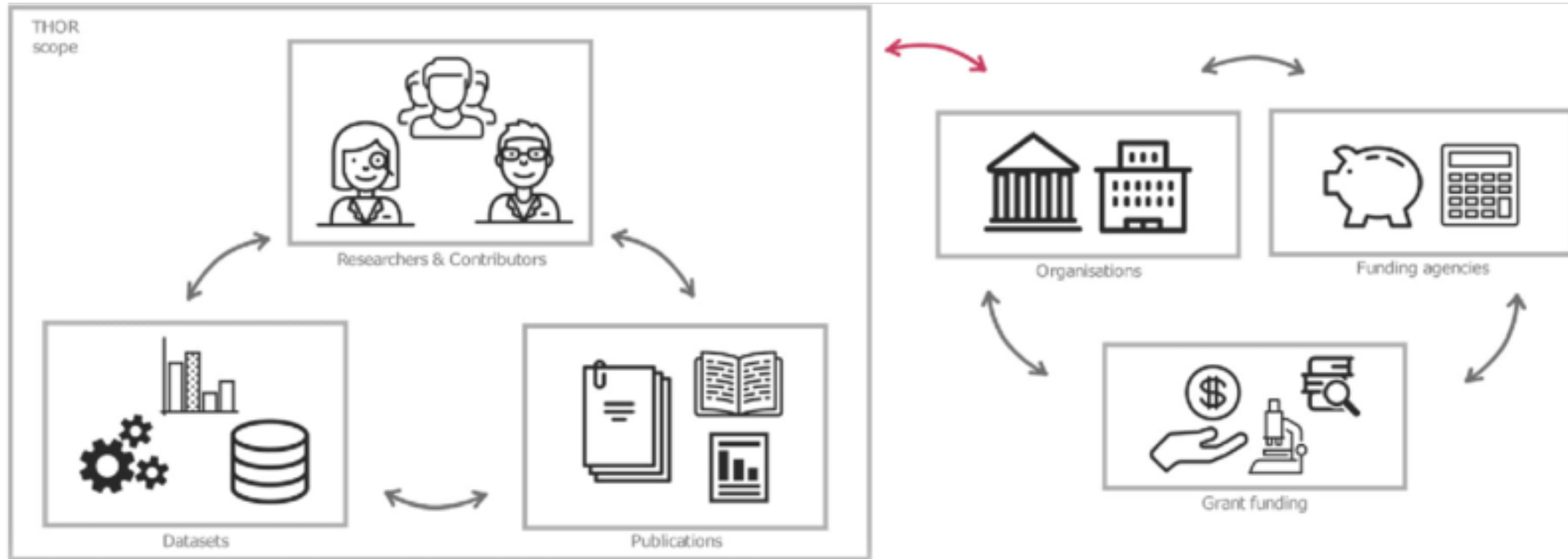
Источник: Report on Integration of Data and Publications, 2011

[https://www.stm-assoc.org/2011\\_12\\_5\\_ODE\\_Report\\_On\\_Integration\\_of\\_Data\\_and\\_Publications.pdf](https://www.stm-assoc.org/2011_12_5_ODE_Report_On_Integration_of_Data_and_Publications.pdf)

# Не просто открыть, а **FAIR**-открыть



# Пространство, основанное на связанных данных и постоянных идентификаторах



Полнота графа знаний зависит от **качества и полноты метаданных**, указанных при регистрации постоянных идентификаторов

# Смена парадигмы работы с данными – концепция связанных данных

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- ☐ Yuryk, Ina V. 2
- ☐ Birukou, Aliaksandr 2
- ☐ Lebedev, Vladimir V. 1
- ☐ Shvartsman, Mikhail E. 1

## Publication Year

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Works People Organizations Repositories

<https://orcid.org/0000-0002-3350-4454>

## Alexey Skalaban

Алексей Скалабан, A.B. Скалабан, A.V. Skalaban, Alexey V. Skalaban

National Electronic Information Consortium (NEICON). Crossref Ambassador in Belarus

### Links

neicon  
Elpub

### Other Identifiers

ResearcherID: N-6769-2013  
Scopus Author ID: 57197807029

### Other Profiles

ORCID  
Impactstory  
Europe PMC

Belarus

<https://orcid.org/0000-0002-3350-4454>

## Employment

### NEICON Russia

Expert  
Since July 2017

### Belarusian National Technical University

Director  
January 2009 to July 2017

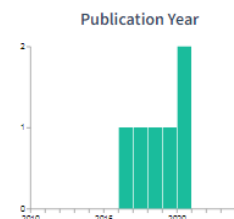
### National Library of Belarus

e-resources librarian  
April 2000 to April 2009

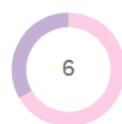
## Aggregated Citations, Views and Downloads

2 Citations

## 6 Works



## Work Type



## License



Analyzing Belarus science journals indexed by Science Citation Index Expanded and Emerging Sources Citation Index

A. Skalaban, I. Yurik, V. Lazarev & P. Lis

Journal Article published 2019 in Scientific and Technical Libraries

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## Co-Authors ?

- ☐ Lazarev, V. 3
- ☐ Yuryk, Ina V. 2
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- ☐ Lebedev, Vladimir V. 1
- ☐ Shvartsman, Mikhail E. 1

## Publication Year

- ☐ 2020 2
- ☐ 2019 1
- ☐ 2018 1
- ☐ 2017 1
- ☐ 2016 1

## Work Type

- ☐ Text 4
- ☐ Journal Article 2

## Registration Agency

- ☐ Crossref 6

## Peter the Great St. Petersburg Polytechnic University

https://ror.org/02x91aj62

80,952 Works 202 Citations 134 Views 12 Downloads

Founded 1899

### Links

Homepage  
Wikipedia

### Other Identifiers

GRID grid.32495.39  
ISNI 0000000097956893  
Wikidata Q1379834

### Geolocation

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Russian Federation Education DataCite Consortium Organization

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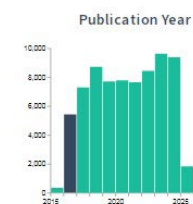
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### Creators & Contributors

- ☐ Vatin, Nikolai Ivanovich 34
- ☐ Vyacheslavova, Ekaterina 20
- ☐ Kryzhanovskaya, Natalia 19
- ☐ Pecherskaya, Ekaterina 17
- ☐ Bolshakov, Alexey 16
- ☐ Solodovnik, Maxim 15
- ☐ Kondratev, Valeriy 14
- ☐ Al-Rousan, Rajai 13
- ☐ Popovich, Anatoliy 13
- ☐ Balakirev, Sergey 12

### Publication Year

- ☐ 2025 1,817
- ☐ 2024 9,376
- ☐ 2023 9,620
- ☐ 2022 8,431
- ☐ 2021 7,636
- ☐ 2020 7,765
- ☐ 2019 7,697
- ☐ 2018 8,712
- ☐ 2017 7,273
- ☐ 2016 5,414
- ☐ 2015 332
- ☐ 2014 284
- ☐ 2013 229
- ☐ 2012 242
- ☐ 2011 224
- ☐ 2010 167



### Digital support for sustainable development of the Arctic zone

Anastasia Gorbacheva & Anastasia Levina

Content published 2024 in Technoeconomics

Development of the Arctic zone, known for its ecological significance and economic potential, faces a number of challenges: inaccessibility of territories, difficult climatic conditions, low population density, the growing threat of climate change, insufficient development of certain technologies, etc. In response to this, it becomes imperative to give priority attention sustainable development strategies that balance economic growth, social policy with environmental conservation. The article examines the views of various researchers on the transformative role of digital technologies in achieving these goals. The purpose of the study is to show the prospects for sustainable development of the Arctic zone and the potential for its digital support. The article discusses various aspects of digitalization of the Arctic. The article reviews the literature on the use of digital technologies to ensure sustainable development of the Arctic zone, identifies key aspects on which various researchers focus, and also provides a list of factors for the sustainable development of the Arctic zone, the effect of which can be "strengthened" by the use of digital technologies.

DOI registered April 11, 2024 via DataCite.

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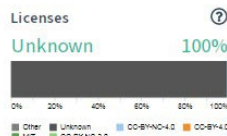
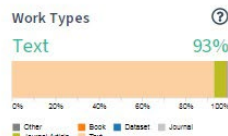
Journal Article English

https://doi.org/10.57809/2024.3.1.8.3

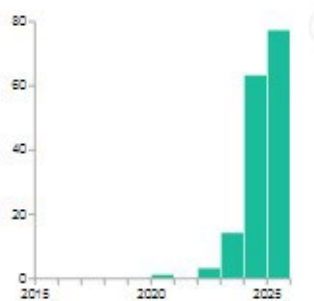
### Methods of online reputation management in enterprises

Viktoria Sheleyko & Anastasia Krestnikova

Content published 2024 in Technoeconomics

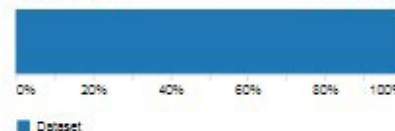


## Publication Year



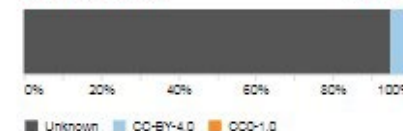
## Work Types

Dataset 100%



## Licenses

Unknown 95%



https://ror.org/02x91aj62

## Peter the Great St. Petersburg Polytechnic University

### ORGANIZATION TYPE

Education

### LOCATION

Saint Petersburg (GeoNames ID 498817)  
Russia

### OTHER NAMES

СПбПУ, СПбПУ, Санкт-Петербургский политехнический университет Петра Великого

### OTHER IDENTIFIERS

GRID grid.32495.39  
ISNI 0000 0000 9795 6893  
Wikidata Q1379834

### WEBSITE

https://www.spbstu.ru/

# Как избежать потерь при поиске?

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ресурсов не в онлайн –  
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- Интерфейс должен  
вынуждать  
автора/правообладателя  
указывать постоянные  
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- Или «подтягивать» их из  
внешних доверенных систем.



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People and organisations:

- [Open Researcher and Contributor ID \(ORCID\)](#)
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Publications:

- [Virtual International Authority File \(VIAF\)](#)
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Uniform Resource Identifiers:

- [Archival Resource Key \(ARK\)](#), with 8.2 billion ARKs issued.
- [Digital Object Identifier \(DOI\)](#), with 200 million DOIs issued.
- [Magnet link<sup>\[5\]</sup>](#) (decentralized, with [BitTorrent](#))
- [Uniform Resource Names \(URNs\)](#)
- [Extensible Resource Identifiers \(XRI\)](#)s
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- [Software Heritage identifiers<sup>\[6\]</sup>](#) (SWHIDs)

# Национальный репозиторий научных данных

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DOI: 10.18721 2r66-6mbk-nvmx

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- PhysicalObject
- Preprint
- Report
- Service
- Software
- Sound
- Standard

# Открыть насколько возможно, закрыть насколько необходимо

ФИНЛЯНДИЯ

DECLARATION FOR OPEN SCIENCE AND RESEARCH 2025-2030

## DECLARATION FOR OPEN SCIENCE AND RESEARCH 2025-2030

### GUIDING PRINCIPLES FOR PROMOTING OPENNESS

Collaboration and participation

Diversity and multilingualism

Transparency and accountability

Sustainability and common good

### VISION OF RESPONSIBLE OPENNESS

### COMMITMENTS

Culture for open scholarship

Open access to research data and methods

Open access to scholarly publishing

Open access to education

Researchdata.se  
Swedish National Data Service

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- > Collection
- > Research principal
- > Access level
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1 2 3 4 5 ...595 > Sorting: Published (newer to older) Per page: 10 >

Data for: "Widespread potential for phototrophy and convergent reduction of lifecycle complexity in the dimorphic order Caulobacteriales" (Hallgren et al., 2025)

Obs! Denna katalogpost beskriver metadata för en dataset för en forskningsartikel som är under utarbetande. Datafilerna är under embargo. Om du behöver åtkomst till datafilerna för sakkunniggranskning, använd funktionen..

Joel Hallgren, Kristina Jonas

Published: 2025-06-19

Data for: FSH receptor N680S genotype-guided choice of gonadotropin increase cumulative pregnancy and live birth rate after in vitro fertilization

Pseudonymised data on n=1466 women who underwent assisted reproduction. N=475 women are genotyped for a follicle stimulating hormone receptor polymorphism (N680S, rs6166), while the remainder (n=991) are non-genotyped but..

Ida Hjelmér, Mathilda Nilsson, Emir Henic (+4)

Published: 2025-06-18

Access level

- Open access 385
- Restricted access 196

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ШВЕЦИЯ

# Пример описания

gugue/dataset/2025-166

Find data Measurement of vibrations in houses from railway traffic

## Measurement of vibrations in houses from railway traffic

<https://doi.org/10.5878/kq8d-6n07> Copy DOI

Database with 800 measurements of vibrations from railway traffic in Swedish dwellings. The measurements were carried out in homes located on ground considered sensitive to vibration transmission, near railway lines with nighttime freight train traffic. The measurements follow the Swedish standard SS 460 48 61:2022 and can be used to assess vibration levels in relation to the Swedish Transport Administration's guidelines.

Download 2 files (56.72 KiB)

Data files

Documentation files

Hide all metadata

Citation and access

Creator/Principal investigator(s): Mikael Ögren - University of Gothenburg ORCID Alf Ekblad - Swedish traffic administration Peter Johansson - Swedish traffic administration Jonathan Norin - Swedish traffic administration

Research principal: University of Gothenburg ROR

Data contains personal data: No

Citation: Ögren, M., Ekblad, A., Johansson, P., & Norin, J. (2025). Measurement of vibrations in houses from railway traffic (Version 1) [Data set]. University of Gothenburg. <https://doi.org/10.5878/kq8d-6n07>

APA Copy BibTeX Download

Data access level: Data are freely accessible

License: Creative Commons Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)

Language: English

Method and outcome



University of Gothenburg

Version 1

Metadata

JSON-LD

Export

### Method and outcome

Time period(s) investigated: 2015 - 2025

Data format/data structure: Numeric Text

### Data collection - Measurements and tests

Mode of collection: Measurements and tests

Description of the mode of collection: Vibration measurement according to SS 460 48 61:2022

Time period(s) for data collection: 2015 - 2025

Data collector: Swedish Transport Administration ROR

### Administrative information

Responsible department/unit: School of public health and community medicine, institution of medicine, Sahlgrenska academy

Commissioning organisation: Swedish Transport Administration ROR

### Topic and keywords

Standard för svensk indelning av forskningsämnen 2011: Environmental sciences Geotechnical engineering

Keywords: Mechanical vibration Vibration Vibration Building vibration railway traffic

### Publications

Citation: Vincens, N., Ögren, M., Li, H., van Kempen, E., Edgren, S., & Persson Waye, K. (2021). EPIVIB: Hälsoeffekter av att bo vid en järnväg. <https://gup.ub.gu.se/publication/313071>

URN: urn:nbn:se:trafikverket:diva-11727

SwePub: oai:gup.ub.gu.se/313071

Citation: Ögren, M., Ekblad, A., Johansson, P., Koopman, A., & Persson Waye, K. (n.d.). Ground and Building Vibration Estimation for Health Impact Research. In Notes on Numerical Fluid Mechanics and Multidisciplinary Design (pp. 487–495). [https://doi.org/10.1007/978-3-030-70289-2\\_52](https://doi.org/10.1007/978-3-030-70289-2_52)

DOI: 10.1007/978-3-030-70289-2\_52

SwePub: oai:gup.ub.gu.se/304460

Citation: Maclachlan, L., Ögren, M., Elise van Kempen, E., Hussain-Alkhateeb, L., & Persson Waye, K. (n.d.). Annoyance in Response to Vibrations from Railways. In International Journal of Environmental Research and Public Health (Vol. 15, Issue 9). <https://doi.org/10.3390/ijerph15091887>

DOI: 10.3390/ijerph15091887

SwePub: oai:gup.ub.gu.se/270211

# В перспективе - синергия междисциплинарности

Переход к smart industry (Industry 4.0, I4.0) и создание индустриального графа знаний на основе the Internet of Things (IoT), Internet of Services (IoS), Cyber-Physical Systems (CPS)

Репозиторий научных данных – поставщик ресурсов для семантических озер данных

Библиотека – информационный хаб для межмашинного взаимодействия

Человекочитаемых интерфейсов для работы столько, сколько групп заинтересованных пользователей из академического и бизнес сообщества

