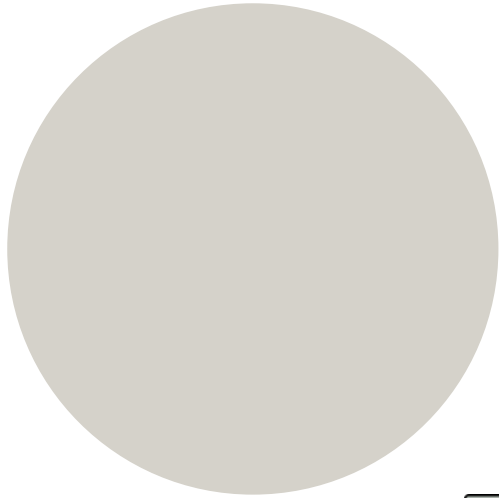


Data sharing & publishing

Wageningen Data Science Week 2020

FAIR Data sprint 4 February



What is a repository?

- Generally
 - a place where things can be stored
- Specifically
 - a central online location for storing electronic materials and their corresponding metadata
 - usually 'open' (i.e. other people can view and potentially use your stuff)

There are different kinds of repositories:

- For 'everything'
- For manuscripts & publications
- For books
- For datasets
- For software
- For hardware
- For protocols
- For physical samples
- For institutions
- And more!

Repositories for datasets

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

<http://www.re3data.org/>



General



Discipline-specific



Multidisciplinary

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Data Archiving and Networked Services



Why share research data?

- Comply with funder data policies
- To meet journal policies to share data for publications
- Promote scientific integrity
- Avoid duplication of effort
- New collaborations between creators and users
- Increased impact and visibility, e.g. more citations



Sharing is part of the job

- *Ideas and results need to be shared to move human knowledge forward*
- Publications without supporting data (and code!) are just claims
- *We live in a digital world, so research data (and code!) can be shared*

Also, think about yourself...

- What if someone asks you for data supporting your publication?
- What if someone asks you for data supporting your publication, 5 years later?
- What if the request comes 10 years later?

Share once, and don't be bothered

Institution: Technische Universiteit Delft

Proceedings of the National Academy of Sciences of the United States of America

PNAS

CURRENT ISSUE // ARCHIVE // NEWS & MULTIMEDIA // AUTHORS // ABOUT // COLLECTED ARTICLES // BROWSE BY TOPIC // EARLY EDITION // FRONT MATTER

🏠 > Current Issue > vol. 114 no. 30 > Hélène de Paoli, 8035–8040, doi: 10.1073/pnas.1619203114

 Check for updates

Behavioral self-organization underlies the resilience of a coastal ecosystem

Hélène de Paoli^a, Tjisse van der Heide^{b,c,1}, Aniek van den Berg^a, Brian R. Silliman^{d,1},
Peter M. J. Herman^{a,c,e,1}, and Johan van de Koppel^{a,b,1}

This Issue

 July 25, 2017
vol. 114 no. 30
[Masthead \(PDF\)](#)
[Table of Contents](#)

◀ PREV ARTICLE NEXT ARTICLE ▶

Data deposition: The data reported in this paper, including R scripts for the analysis and the figures, has been deposited in the 4TU database, doi.org/10.4121/uuid:9e1752fd-cce7-408e-a02c-16d1f663ec5f.

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Dataset | Data presented in the Paper "Behavioral self-organization underlies the resilience of a coastal ecosystem" by De Paoli et al (PNAS 2017)

▶▶▶▶▶ Link/cite as <https://doi.org/10.4121/uuid:9e1752fd-cce7-408e-a02c-16d1f663ec5f> | [full citation](#)

▼ go to DATA section ▼

title	?	Data presented in the Paper "Behavioral self-organization underlies the resilience of a coastal ecosystem" by De Paoli et al (PNAS 2017)
creator	?	orcid van de Koppel, J. (Johan)
creator	?	de Paoli, H. (Hélène)
contributor	?	orcid Herman, P.M.J. (Peter)
contributor	?	NIOZ Royal Netherlands Institute for Sea Research, Department of Estuarine and Delta Systems, and Utrecht University
contributor	?	orcid Silliman, B.R. (Brian)
contributor	?	van den Berg, A. (Aniek)
contributor	?	van der Heide, T. (Tjisse)
date accepted	?	2017-06-12
date created	?	2017-04-11
date published	?	2017
description	?	This dataset contains the experimental data that is published in the paper "Behavioral self-organization underlies the resilience of a coastal ecosystem", with the above contributors as authors, published in the Proceedings of the National Academy of Science of the USA. The data was obtained during the Waddenseleutels and Mosselwad projects. The current dataset contains the raw data and R scripts for analysis and for the figures in that manuscript.
language	?	en
publisher	?	NIOZ Royal Netherlands Institute for Sea Research
spatial coverage	?	Intertidal flats inc. oyster/mussel reefs south of Schiermonnikoog, Netherlands ▶ The experiments were conducted on mussel beds situated at land-bound intertidal flats to the south of Schiermonnikoog, the Netherlands (location: 53.455, 6.147 DD)
subject	?	Mussel beds • Mussels • Restoration • Spatial ecology • Spatial patterns
▲ in collection	?	General collection of datasets
time coverage	?	years 2012-2013
related publication	?	Behavioral self-organization underlies the resilience of a coastal ecosystem (article, 2017)
licence	?	General terms of use

DATA

? Dataset files (80.9 KiB) >> [download complete dataset \(zip\)](#) | [download separate files](#)

- + bag-info
- + contents of this dataset, 13 files

People can self-service
instead of bothering you

But who looks in the data repository?

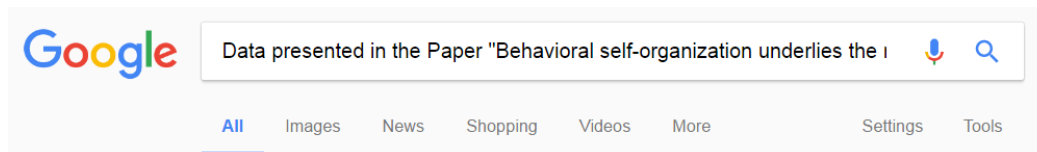


Google Search

I'm Feeling Lucky

Google does!

Google searches the data repository



About 79 results (0,76 seconds)

Behavioral self-organization underlies the resilience of a coastal ...

www.pnas.org/content/114/30/8035

by H de Paoli - 2017 - **Cited by 2**

Jul 25, 2017 - 30; > Hélène **de Paoli**, 8035–8040, doi: 10.1073/pnas.1619203114 ... University, Princeton, NJ, and approved May 19, 2017 (received for review December 16, 2016) ... **Data** deposition: The **data** reported in this **paper**, including R scripts for the analysis and ... Rachael Winfree **et al.**, Proceedings B, 2009.

4TU - Dataset: Data presented in the Paper "Behavioral self ...

<https://data.4tu.nl/repository/uuid:9e1752fd-cce7-408e-a02c-16d1f663ec5f> ▼

Jun 12, 2017 - ?title, **Data presented in the Paper "Behavioral self-organization underlies the resilience of a coastal ecosystem"** by De Paoli et al (PNAS 2017).

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Data presented in the Paper "Behavioral self-organization underlies ...

data.4tu.nl/repository/uuid:9e1752fd-cce7-408e-a02c-16d1f663ec5f/.../datacite? ▼

... 0000-0002-0103-4275 de Paoli, H. (Hélène) **Data presented in the Paper "Behavioral self-organization underlies the resilience of a coastal ecosystem"** by De Paoli et al (PNAS 2017) NIOZ ...

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Behavioral self-organization underlies the resilience of a coastal ecosystem

H de Paoli, T van der Heide... - Proceedings of the ..., 2017 - National Acad Sciences

Abstract Self-organized spatial patterns occur in many terrestrial, aquatic, and marine ecosystems. Theoretical models and observational studies suggest self-organization, the formation of patterns due to ecological interactions, is critical for enhanced ecosystem resilience. However, experimental tests of this cross-ecosystem theory are lacking. In this study, we experimentally test the hypothesis that self-organized pattern formation ...

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