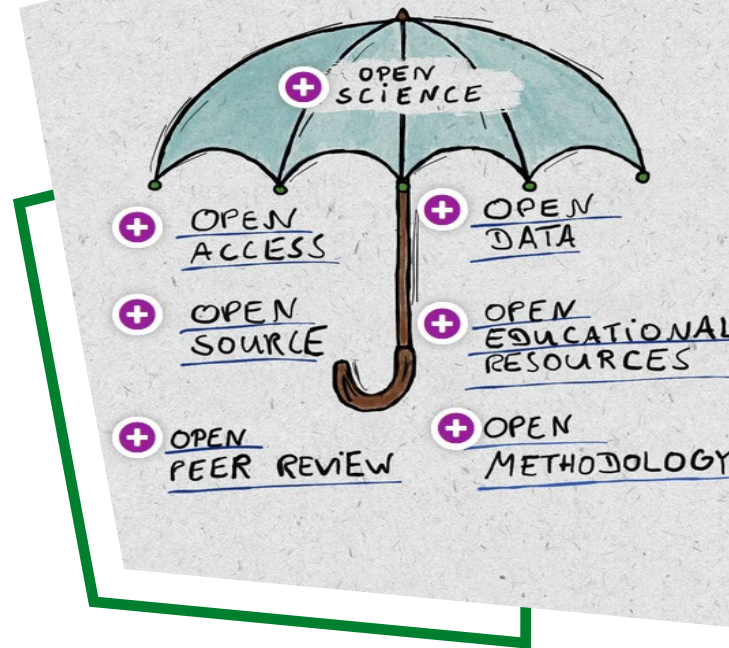


Open Science. For more transparency and visibility!

19.06.2022

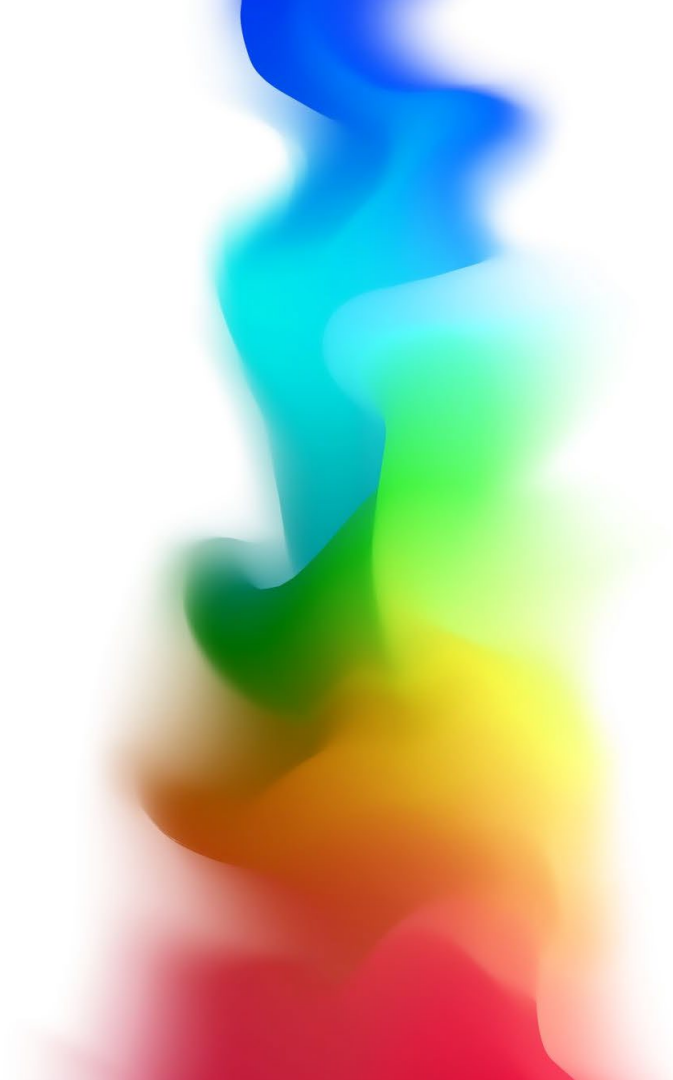
Dr. Stefan T. Siegel



From insight to impact.

Open Science

1. Why?
2. What?
3. How?
4. Q&A





1. Why Open Science?

Science works



@NASA: <https://webbtelescope.org/contents/media/images/2022/031/01G77PKB8NK7S8Z6HBXMYATGJ>



@EULAR: https://www.eular.org/eular_sars_cov_2_vaccination_rmd_patients.cfm

Science doesn't (seem to) work

Need for transformation in sciences – The Academic crisis list

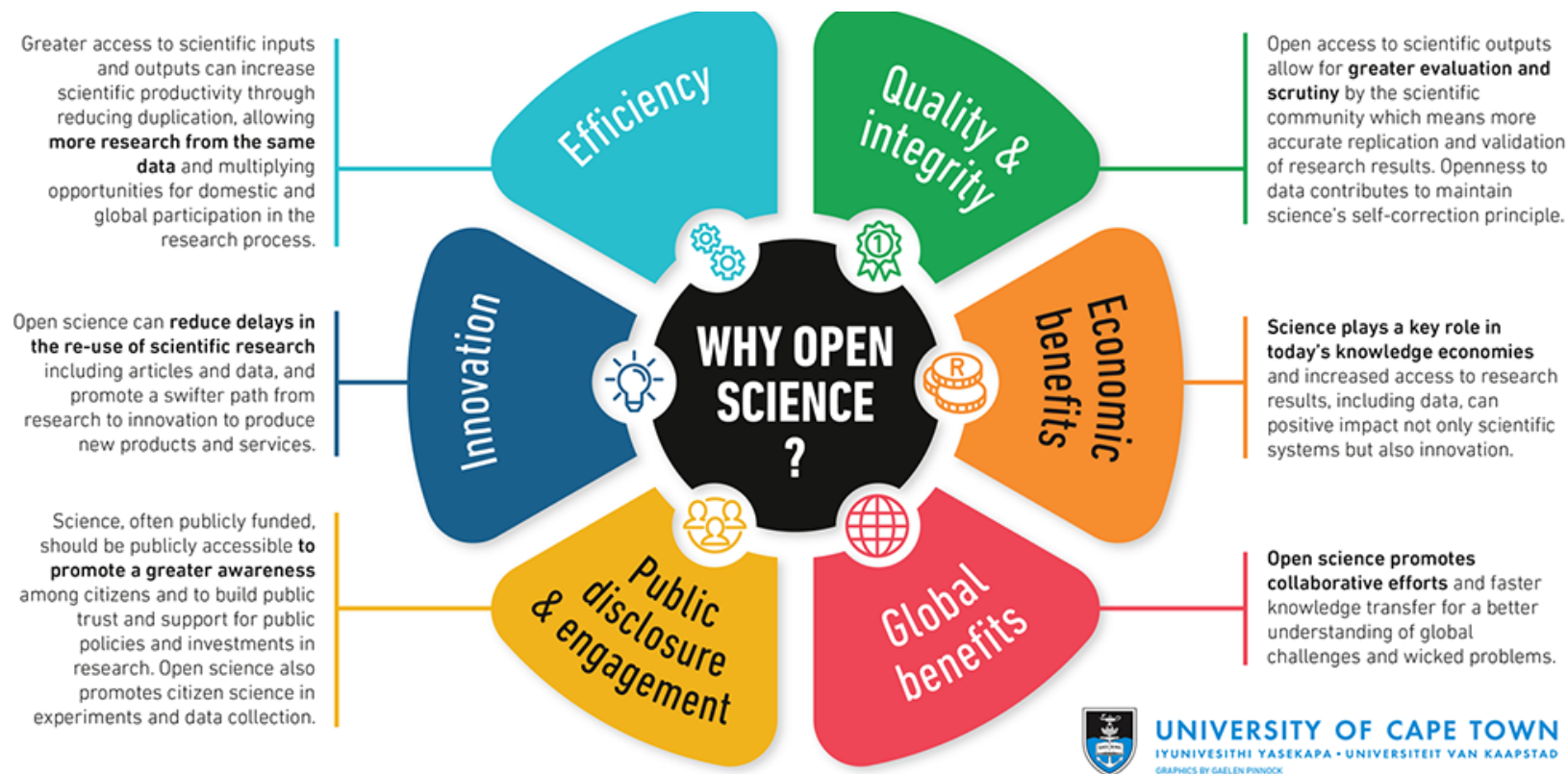
- Academic career crisis
 - Tenure track, WissZeitVG, Junior professorship
- Life Plan Crisis
 - How and when to start a family?
- Working condition crisis
 - Precarity, short contracts, relocation
- PostDoc Crisis
 - Great Resignation
- Power abuse crisis
 - Ultimate dependency on supervisor
- Replication crisis
 - real vs fake data, brain drain
- Culture of failure crisis
 - Failure endangers future funding
- Publication crises
 - publish or perish, review process, predatory publishing
- Funding crisis
 - Funding agencies with very low funding probability: Is it worth it? Research Topic Selection really free?
- Collaboration crisis
 - China Science Investigation, foreign policy through scientific collaboration bans
- Research Assessment crisis
 - Quantity vs. quality, meaning of evaluations
- Quantification crisis
 - employability, university rankings, h-index
- Higher Education Crisis
 - Why even bother doing good lectures
- Mental Health Crisis
 - N2 PHDNet Max Planck
- Intersectionality crisis
 - diversity, first gen, disabled
- Academic Administration crisis
 - The Rise of the All-Administrative University and Why It Matters
- Science and Society crisis
 - Disbelief in science, false balancing, conspiracy theories

Could Open Science the Answer?



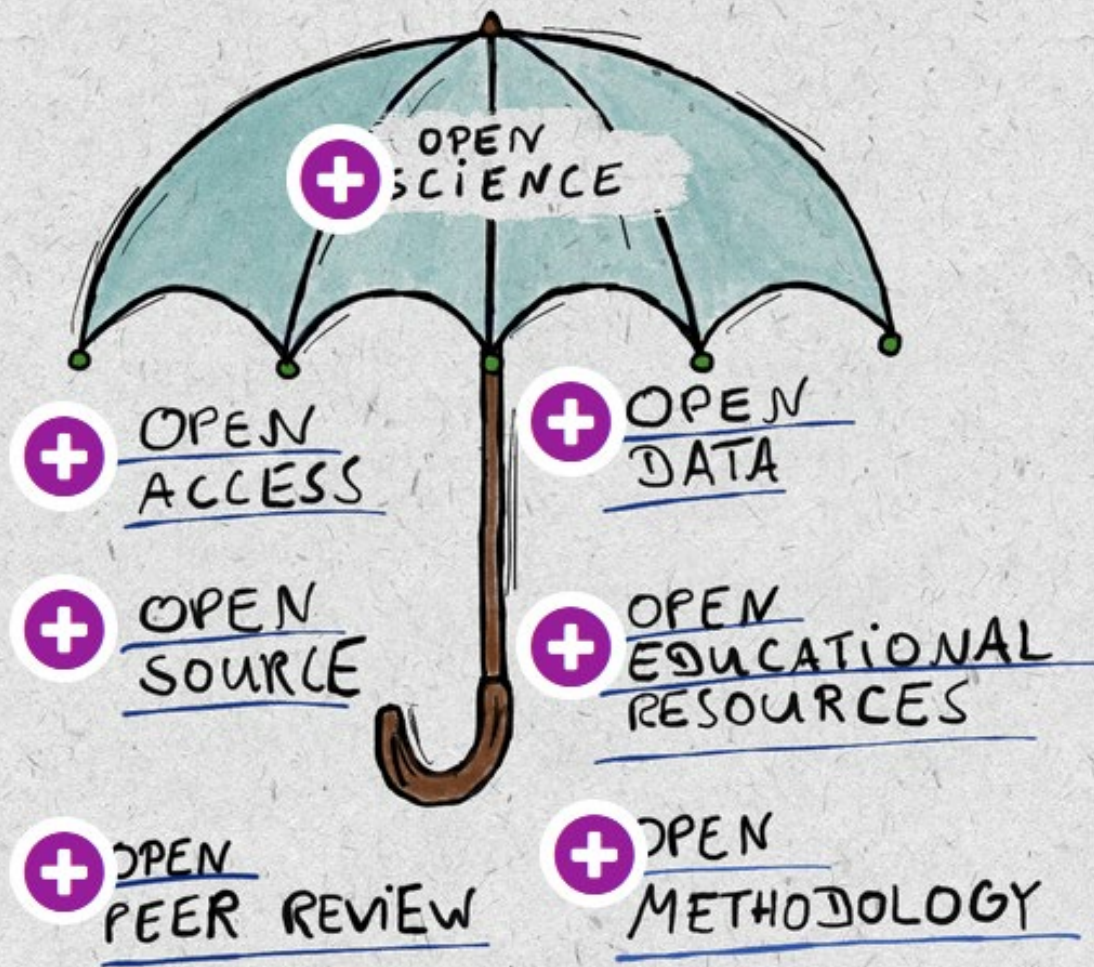
<https://zenodo.org/record/1285575>
Imming & Tennant, 2018; [CC BY 4.0](#)

Some Promises of Open Science





2. What is Open Science?



Was bedeutet eigentlich Open Science? ([CC BY 4.0](#))
Florian Hagen 2019



3. Open Science – How to?

You can make your workflow more open by ...



- adding alternative evaluation, e.g. with altmetrics
- communicating through social media, e.g. Twitter
- sharing posters & presentations, e.g. at FigShare
- using open licenses, e.g. CC0 or CC-BY
- publishing open access, 'green' or 'gold'
- using open peer review, e.g. at journals or PubPeer
- sharing preprints, e.g. at OSF, arXiv or bioRxiv
- using actionable formats, e.g. with Jupyter or CoCalc
- open XML-drafting, e.g. at Overleaf or Authorea
- sharing protocols & workfl., e.g. at Protocols.io
- sharing notebooks, e.g. at OpenNotebookScience
- sharing code, e.g. at GitHub with GNU/MIT license
- sharing data, e.g. at Dryad, Zenodo or Dataverse
- pre-registering, e.g. at OSF or AsPredicted
- commenting openly, e.g. with Hypothes.is
- using shared reference libraries, e.g. with Zotero
- sharing (grant) proposals, e.g. at RIO



[Read More](#)

Files

Click on a storage provider or drag and drop to upload

Filter



Name

Modified

Teaching-Related Knowledge Management in Higher Education	
- OSF Storage (Germany - Frankfurt)	
2019 Teaching materials of the project LeHet, Stefan T. Siegel	2020-11-24 08:13 PM
2020 Teaching-related knowledge management Stefan T. Siegel	2020-11-24 08:10 PM
2022-06 Reflection Tool Knowledge Management in Higher Education	2022-06-29 12:39 AM
2023 ICM beyond Chur SoTL Dr. Stefan T. Siegel Folien.pdf	2023-02-17 10:18 PM
2023 SoTL-Werkstatt ICM beyond Dokumentation Dr. Stefan T. Siegel	2023-02-16 03:11 PM
Hopscotch 4-SoTL.h5p	2023-02-17 02:13 PM

Components

[Add Component](#)[Link Projects](#)

Add components to organize your project.

Tags

Dozierende x Efficiency x Higher Education x Hochschule x Knowledge Management x Lecturers x
Lehre x Nachhaltigkeit x OER x Open Educational Practices x Open Educational Resources x
Open Pedagogy x Qualität x Quality x Sustainability x Teaching x Transparenz x [Add a tag](#)

Recent Activity

- Dr. Stefan T. Siegel updated wiki page [Home](#) to version 19 of [Teaching-Related Knowledge Management in Higher Education](#) 2023-06-01 03:23 PM
- Dr. Stefan T. Siegel added file [Wiki images/Teaching-related Knowledge Management Dr. Stefan T. Siegel.png](#) to OSF Storage in [Teaching-Related Knowledge Management in Higher Education](#) 2023-06-01 03:22 PM
- Dr. Stefan T. Siegel updated wiki page [Home](#) to version 18 of [Teaching-Related Knowledge Management in Higher Education](#) 2023-04-29 04:27 PM
- Dr. Stefan T. Siegel updated wiki page [Home](#) to version 17 of [Teaching-Related Knowledge Management in Higher Education](#) 2023-04-29 04:25 PM
- Dr. Stefan T. Siegel added file [UFF2023_Lohner, Siegel Digital Tools for Thought – vernetztes Wissen KI-gestützt nutzbar machen.pdf](#) to OSF Storage in [Teaching-Related Knowledge Management in Higher Education](#)
- Dr. Stefan T. Siegel updated wiki page [Home](#) to version 16 of [Teaching-Related Knowledge Management in Higher Education](#)

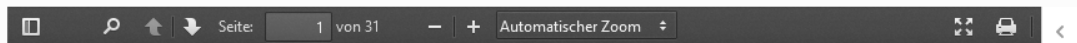
(Screenshot)



Attitudes and Beliefs of Students and Lecturers about Educational Theories: Results of a Mixed Methods Study

[Edit preprint](#)**AUTHORS**[Dr. Stefan T. Siegel](#), [Martin Daumiller](#)**AUTHOR ASSERTIONS****Conflict of Interest:** No ▾**Public Data:** No ▾

🟢 **Accepted:** EdArXiv uses pre-moderation. This preprint has been accepted by a moderator and is publicly available and searchable.



Seiter: 1 von 31 Automatischer Zoom

ATTITUDES AND BELIEFS ABOUT EDUCATIONAL THEORIES

**Attitudes and Beliefs of Students and Lecturers about Educational Theories:
Results of a Mixed Methods Study**

Stefan T. Siegel,¹ and Martin Daumiller²

¹Department of Educational Science, University of Augsburg

[Download](#)

Views: 424 | Downloads: 2264



Be the first to endorse this work


**Abstract**

Educational theories are central for teacher education. Despite their theoretical relevance, students' and lecturers' understandings of educational theories and their theory-related attitudes and beliefs thereof are hardly understood. To elucidate these constructs and to test their relevance, we conducted a mixed methods study with 32 students and ...

[See more](#)**Supplemental Materials**

(Screenshot)

osf.io/qj5zk/ 

 Open access |   | Research article | First published online July 30, 2021

The problem of educational theory

[Stefan T Siegel](#)   and [Gert Biesta](#) [View all authors and affiliations](#)

[Volume 20, Issue 5](#) | <https://doi.org/10.1177/14782103211032087>


 Contents

 PDF / ePub

 Cite article

 Share options

 Information, rights and permissions

 Metrics and citations

 Figures and tables

Abstract

This interview sheds light on current developments threatening the disciplinary ‘heart’ of education. Taking a starting point in the continental ‘configuration’ of the field, Gert Biesta and Stefan T Siegel argue that there are forms of theory considered distinctively educational. Based on this premise, they discuss why defining educational theories (*Erziehungswissenschaftliche Theorien*) is so challenging, and why it is nevertheless a rewarding endeavour. By distinguishing between (genuinely) educational theories in a narrow sense and (educationally relevant) theories in a wider sense, Biesta and Siegel attempt to tackle the problem of educational theory and to stimulate the discourse on theorizing education.

Related content

Similar articles:



Free access

[Reconsidering the concept of difference: A proposal to connect education and neuroscience in new ways](#)

Show details ▾



Available access

A transcontinental perspective on education

(Screenshot)



Home



Explore



Notifications



Messages



Lists



Bookmarks



Verified



Profile



More

Tweet



Dr. Stefan T. Siegel

500 Tweets



Edit profile

Dr. Stefan T. Siegel

@StefanTSiegel

Education Researcher & Lecturer 📚 @HSGStGallen 🇨🇭 Researching
#educationaltheory #educationalmedia | Enjoying #highered #sustainability
#openscience #pkm

📚 Education ⓘ 📍 University of St.Gallen 🔗 stefansiegel.de

📅 Joined September 2020

1,299 Following 389 Followers

Tweets

Replies

Media

Likes



Pinned Tweet

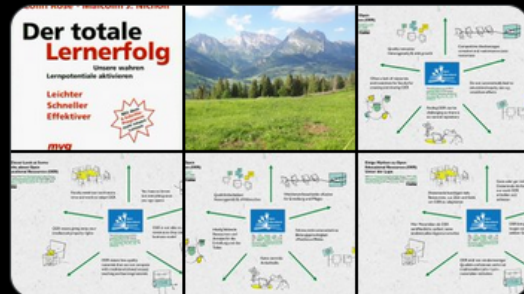


Dr. Stefan T. Siegel @StefanTSiegel · Apr 1, 2022

Finally, my 'book' has been published 🎉👍
Now, I'm #phdone @uni_augsburg
Huge thanks to my supervisors, friends, and family ✨😊 Check it out if
you're interested in: #educationaltheory #education #refessionalism



Search Twitter



You might like



Projekt DiKuLe

@dikule_uba Follows you

Follow



Dirk Richter

@Dirk_Richter_

Follow

Show more

Trends for you

Trending in Switzerland

Arbeitgeber

1,454 Tweets

Trending in Switzerland

#Serbia

1,825 Tweets



Filter

Typ +

Autor:in +

Keyword +

Datum +

Enthält Dateien +

Item-Type +

Language +

Type +

Veröffentlichung

The problem of educational theory

(Sage, 2021-07-30) Siegel, Stefan T.  ID ; Biesta, Gert

Abstract This interview sheds light on current developments threatening the disciplinary 'heart' of education. Taking a starting point in the continental 'configuration' of the field, Gert Biesta and **Stefan T Siegel** argue that there are forms... (genuinely) educational theories in a narrow sense and (ed
Type: journal article

Journal: Policy Futures in Education

URL: <http://dx.doi.org/10.1177/14782103211032087>

DOI: 10.1177/14782103211032087

URI: <https://www.alexandria.unisg.ch/handle/20.500.14171/110185>

Scopus® Citations 6

Veröffentlichung

El Problema de la Teoría de la Educación

(2022) Siegel, Stefan T.  ID ; Biesta, Gert

Type: journal article

Journal: Teoría de la Educación. Revista Interuniversitaria

Issue: 34

URL: <https://revistas.usal.es/index.php/1130-3743/article/view/teri.27157>

DOI: <https://doi.org/10.14201/teri.27157>

URI: <https://www.alexandria.unisg.ch/handle/20.500.14171/109532>



(Screenshot)

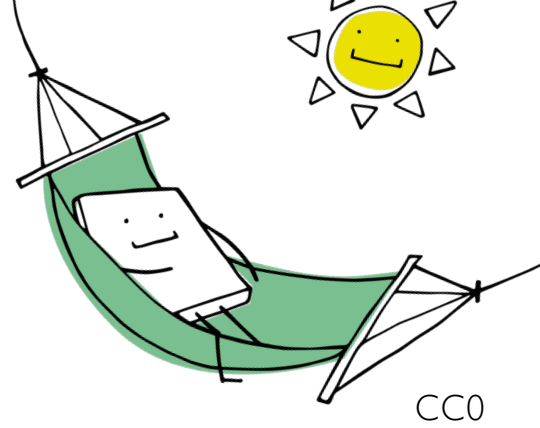
References & Resources (Selection)

References

- Schönbrodt, F. D., Siegel, S. T., & Daumiller, M. (2020). Open Science als Antwort auf die Glaubwürdigkeitskrise der Wissenschaft. In S. T. Siegel & M. Daumiller (Hrsg.), *Wissenschaft und Wahrheit: Ursachen, Folgen und Prävention wissenschaftlichen Fehlverhaltens* (S. 89–98). Budrich.
- UNESCO. (2021). *UNESCO Recommendation on Open Science*. UNESCO Publishing. <https://unesdoc.unesco.org/ark:/48223/pf0000379949.locale=en>

Resources

- Open Science Training Courses: <https://www.fosteropenscience.eu/toolkit>
- Information and Materials of the Library of the University of Augsburg: <https://www.uni-augsburg.de/de/organisation/bibliothek/publizieren-zitieren-archivieren/open-access/>





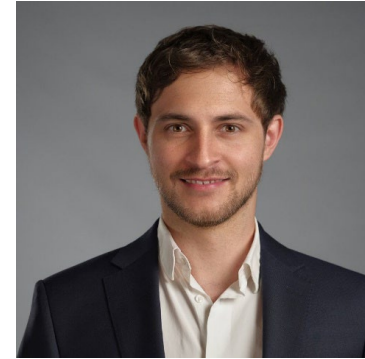
Universität St.Gallen

Institut für Wirtschaftspädagogik

Dufourstrasse 40a
9000 St.Gallen

Unless otherwise stated, this work is licensed under [CC BY-SA 4.0](#); [Dr. Stefan T. Siegel](#) / [IWP-HSG](#).

Trademarks, logos, screenshots, and some graphics and icons are excluded; the free license does not extend to them.



Dr. Stefan T. Siegel

✉ stefan.siegel@unisg.ch

📞 +41 71 224 75 91

🐦 [@stefantsiegel](https://twitter.com/stefantsiegel)