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THE NEED OF SKILLS FOR OPEN SCIENCE

ROUND TABLE. OPEN SCIENCE AND THE EOSC
LANDSCAPE: THE PROJECT SKILLS4EOSC

June 5, 2023

WHAT IS OPEN SCIENCE

A **set of principles and practices** that aim to make scientific research from all fields accessible to everyone for the benefits of scientists and society as a whole.

Open science has the potential of making the scientific process more **transparent**, **inclusive** and **democratic**.

As open as possible

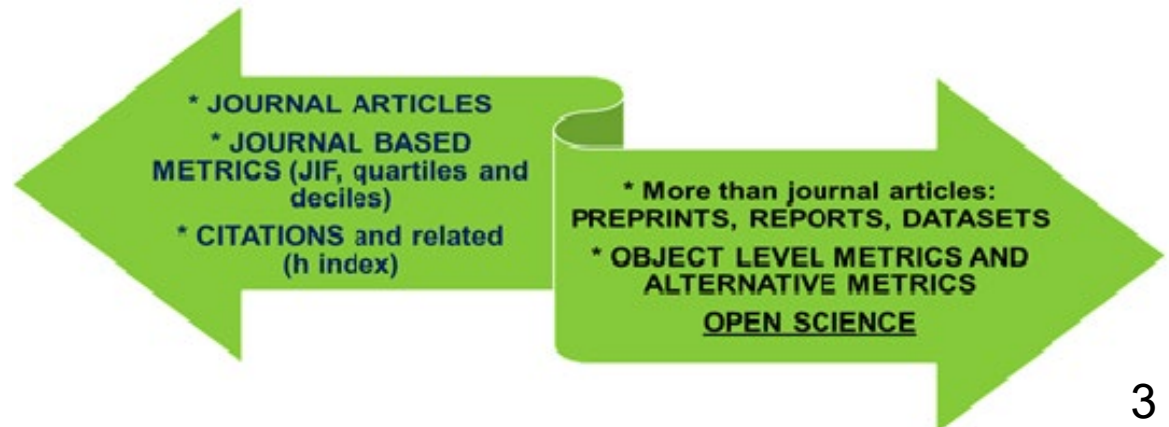
Access to scientific knowledge should be **as open as possible**, but sometimes access may need to be restricted, for example to protect human rights, confidentiality, intellectual property rights, personal information, threatened or endangered species, and sacred and secret indigenous knowledge. OS encourages scientists to develop tools and methods for **managing data** so that **as much data as possible** can be shared, as appropriate.



WHAT CHANGES?

CLOSED SCIENCE	OPEN SCIENCE
Based on publishing articles	Based on publishing any research outputs
Individualistic science	Collaborative science
Access to research outputs for a few researchers	Access to research outputs for the entire society
Vertical, specialized science	Horizontal, interdisciplinary science
Science without citizen participation	Citizen science, with and for Society
Credit system based on the impact of publications	Credit system based on the impact of the researcher
Journal metrics , Impact Factor and Citescore or similar	New metrics and next generation metrics , new indicators

Alonso-Arévalo, J. (2019) El conocimiento es de todos y para todos ¿Qué es y qué implica la Ciencia Abierta? Universo Abierto.
<https://universoabierto.org/2019/09/30/el-conocimiento-es-de-todos-y-para-todos-que-es-y-que-implica-la-ciencia-abierta/>



FUNDERS' REQUIREMENTS: EU

Open Science practices

What?	How?	Mandatory in all calls/recommended
Early and open sharing of research	Preregistration, registered reports, preprints, etc.	Recommended
Research output management	Data management plan (DMP)	Mandatory
Measures to ensure reproducibility of research outputs	Information on outputs/tools/instruments and access to data/results for validation of publications	Mandatory
Open access to research outputs through deposition in trusted repositories	<ul style="list-style-type: none"> Open access to publications Open access to data Open access to software, models, algorithms, workflows etc. 	<ul style="list-style-type: none"> Mandatory for peer-reviewed publications Mandatory for research data but with exceptions ('as open as possible...') Recommended for other research outputs
Participation in open peer-review	Publishing in open peer-reviewed journals or platforms	Recommended
Involving all relevant knowledge actors	Involvement of citizens, civil society and end-users in co-creation of content (e.g. crowd-sourcing, etc.)	Recommended

Open science practices listed in the template for proposals (section excellence>methodology)

Non-exhaustive list

Mandatory in all calls: Model Grant Agreement or call requirement; all the rest recommended



OPEN SCIENCE IN HORIZON EUROPE



Open Science across the programme

Open Science

Better dissemination and exploitation of R&I results and support to active engagement of society

Mandatory Open Access to publications: beneficiaries shall ensure that they or the authors retain sufficient intellectual property rights to comply with open access requirements

Open Access to research data ensured: in line with the principle "as open as possible, as closed as necessary"; Mandatory Data Management Plan for FAIR (Findable, Accessible, Interoperable, Re-usable) and Open Research Data

- Support to researcher skills and reward systems for open science
- Use of European Open Science Cloud

May 2019 | Version 25



COMMUNICATION,
DISSEMINATION,
OPEN SCIENCE
AND VISIBILITY
(Article 17, p 108-110)

FUNDERS' REQUIREMENTS: FWF

Home » Research funding » Open Access Policy

excellent=austria

FWF Programmes

Application

Project Funding via PROFI

Overview of Calls

Applying from Abroad

Ukraine Support

Information for Principal Investigators

Personnel Costs

Decision-making Procedure & Evaluation

Final Project Reports

Inclusion

Research Integrity & Research Ethics

Coaching Workshops & Information Events

Open Access Policy

- » Open Access to Peer-reviewed Publications
- » Open Access to Peer-Reviewed Book Publications
- » Open Access to Research Data
- » Research Data Management

FAQ

Open Access Policy

As a signatory of the [Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities](#), the FWF is committed to advancing sustained open access to scholarly publications and research data. To this end, the FWF requires and supports all project leaders and project staff members to make their peer-reviewed research outputs freely available through the internet, if they result in full or in part from projects funded by the FWF.

The Open Access Policy consists of the following elements:

- » [Open Access to Peer-Reviewed Publications](#)
- » [Open Access to Peer-Reviewed Book Publications](#)
- » [Open Access to Research Data](#)

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Support of Open Access Infrastructures and Tools

To further the transition to open access in the scholarly publication system, the Austrian Science Fund (FWF) annually supports the following open access infrastructures and platforms.

» [Open Access Infrastructures](#)

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Open Access Testimonials

In recent years, an increasing number of researchers from all fields have been supporting efforts to make scientific publications freely available on the internet (open access). In 2012, following the Dutch model of “[the experts speak](#)”, more than 40 outstanding researchers in Austria (incl. some Austrians abroad) from all branches of sciences and the humanities, from different institutions as well as from different age groups, were asked why they practice open access in one way or the other and why they think open access is important. For a list of the researchers and their testimonials.

» [Open Access Testimonials](#)

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DOWNLOAD

External study about the Open Access Policy of the FWF (pdf, 389KB)

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QUICKFINDER

Open Access News

<https://www.fwf.ac.at/en/research-funding/open-access-policy>

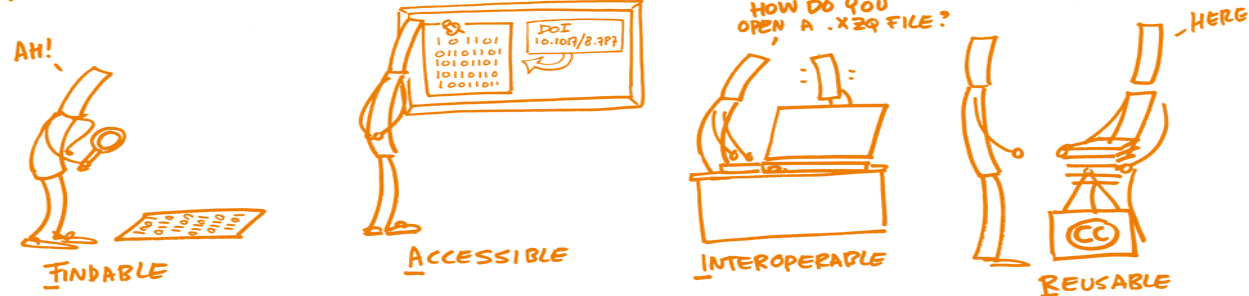
- FWF **requires** all project leaders and project staff members to **publish their peer-reviewed publications open access** if they result in whole or in part from projects supported by the FWF, **including books**.
- FWF **expects** OA to research data collected and/or analysed using FWF funds for projects approved from 1 January 2019. OA is mandatory for research data on which the research publications of the project are based. **If, for legal, ethical or other reasons, OA to these data is not or only partially possible, this must be explained in the Data Management Plan (DMP).** OA to all other research data from a project **is at the discretion of the principal investigator**.
- FWF **requires a data management plan (DMP)** for projects approved from 1 January 2019. A DMP describes how data and their metadata are collected, organised, stored, published, shared, and archived for a specific project. **Data will be made FAIR**, which means Findable, Accessible, Interoperable and Reusable.

THE FAIR PRINCIPLES

RESEARCH DATA - OPEN BY DEFAULT



FAIR DATA PRINCIPLES



Research data and their metadata should be treated to be findable and reusable

FAIR CAN BE RESTRICTED

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but FAIR
compliant

March 22, 2021

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Communities: [Centro Cardiologico Monzino IRCCS](#)

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Cite as

Gasperetti, Alessio, Sicuso, Rita, Dello Russo, Antonio, Zucchelli, G, Saguner, AM, Notarstefano, P, Soldati, E, Bongiorno, Maria Grazia, Della Rocca, Domenico, Mohanty, S, Carbuicchio, Corrado, Duru, F, Di Biase, Luigi, Natale, Andrea, Tondo, Claudio, Casella, Michela. (2021). Dataset related to the article "Prospective use of ablation index for the ablation of right ventricle outflow tract premature ventricular contractions: a proof of concept study." [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.4627191>

Dataset related to the article "Prospective use of ablation index for the ablation of right ventricle outflow tract premature ventricular contractions: a proof of concept study."

Gasperetti, Alessio; Sicuso, Rita; Dello Russo, Antonio; Zucchelli, G; Saguner, AM; Notarstefano, P; Soldati, E; Bongiorno, Maria Grazia; Della Rocca, Domenico; Mohanty, S; Carbuicchio, Corrado; Duru, F; Di Biase, Luigi; Natale, Andrea; Tondo, Claudio; Casella, Michela

This record contains raw data related to the article 'Prospective use of ablation index for the ablation of right ventricle outflow tract premature ventricular contractions: a proof of concept study'.

Abstract

Aims: Radiofrequency catheter ablation (RFCA) represents an effective option for idiopathic premature ventricular contractions (PVCs) treatment. Ablation Index (AI) is a novel ablation marker incorporating RF power, contact force, and time of delivery into a single weighted formula. Data regarding AI-guided PVCs RFCA are currently lacking. Aim of the study was to compare AI-guided and standard RFCA outcomes in patients with PVCs originating from the right ventricle outflow tract (RVOT).

Methods and results: Consecutive patients undergoing AI-guided RFCA of RVOT idiopathic PVCs were prospectively enrolled. Radiofrequency catheter ablation was performed following per-protocol target cut-offs of AI, depending on targeted area (RVOT free wall AI cut-off: 590; RVOT septum AI cut-off: 610). A multi-centre cohort of propensity-matched (age, sex, ejection fraction, and PVC site) patients undergoing standard PVCs RFCA was used as a comparator. Sixty AI-guided patients (44.2 ± 18.0 years old, 58% male, left ventricular ejection fraction 56.2 ± 3.8%) were enrolled; 34 (57%) were ablated in RVOT septum and 26 (43%) patients in the RVOT free wall area. Propensity match with 60 non-AI-guided patients was performed. Acute outcomes and complications resulted comparable. At 6 months, arrhythmic recurrence was more common in non-AI-guided patients whether in general (28% vs. 7% P = 0.003) or by ablated area (RVOT free wall: 27% vs. 4%, P = 0.06; RVOT septum 29% vs. 9% P = 0.05). Ablation Index guidance was associated with improved survival from arrhythmic recurrence [overall odds ratio 6.61 (1.95-22.35), P = 0.001; RVOT septum 5.99 (1.21-29.65), P = 0.028; RVOT free wall 11.86 (1.12-124.78), P = 0.039].

Conclusion: Ablation Index-guidance in idiopathic PVCs ablation was associated with better arrhythmic outcomes at 6 months of follow-up.

Keywords: Ablation index; Catheter ablation; Idiopathic premature ventricular contractions; Right ventricle outflow tract; Ventricular arrhythmias.

Files

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FAIR CAN BE CLOSED

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October 22, 2021 Dataset Closed Access

What Influences Algorithmic Decision-Making? A Systematic Literature Review on Algorithm Aversion

Mahmud, Hasan; Islam, A.K.M. Najmul; Ahmed, Syed Ishtiaque; Smolander, Kari

Abstract

With the continuing application of artificial intelligence (AI) technologies into decision-making, algorithmic decision-making is becoming more efficient, even often outperforming human counterpart. Despite this superior performance, people often consciously or unconsciously display reluctance to rely on algorithms, a phenomenon known as algorithm aversion. Viewed as a behavioral anomaly, algorithm aversion has recently attracted much scholarly attention. With a view to synthesize the findings of this literature, we systematically review 80 empirical studies identified through searching in seven academic databases and performing citation chaining. We map the emergent themes following grounded theory and categorize the influencing factors of algorithm aversion under four main themes: algorithm, individual, task, and high-level. Our analysis reveals that although algorithm and individual factors have been investigated extensively, very little effort has been given to explore the task and high-level factors. We contribute to algorithm aversion literature by proposing a comprehensive framework, highlighting open issues in existing studies, and outlining several research avenues that could be handled in future research. Implications for research and practitioners about the findings of the study are discussed.

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Keyword(s): Algorithmic decision-making, AI decision-making, Algorithm aversion, Algorithm appreciation, Systematic literature review

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SKILLS4 EOSC – WP 4

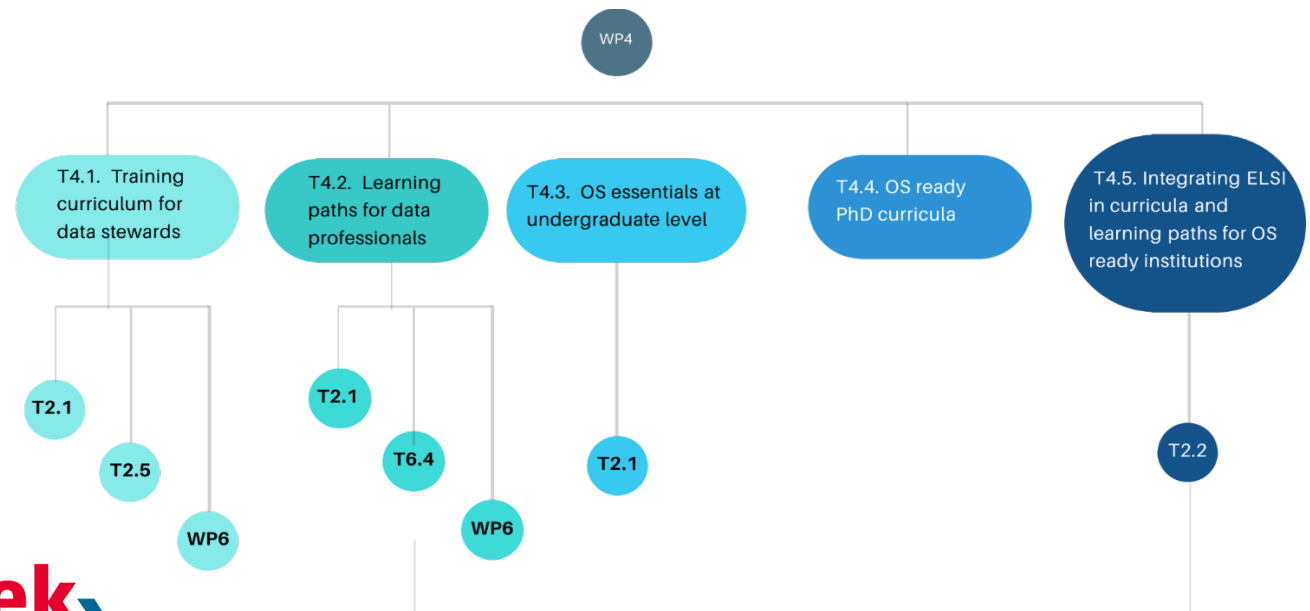
WP4: CURRICULA AND LEARNING PATHS FOR OPEN SCIENCE

Building curricula and learning paths for
Open Science ready Institutions.

- Undergraduate students and PhDs
- Data stewards and data professionals
 - Data librarian and curators
 - Legal and ethical experts.

SKILLS4 EOSC – OBJECTIVES OF WP 4

- Design harmonised curricula and learning paths for OS professionals, to ensure alignment, uniformity, quality and recognition of the acquired competences across Europe and beyond.
- Define “OS essentials” to include in undergraduate and PhD courses and support professionals.
- Foster an OS ecosystem where researchers, public servants, and data stewards align curricula, training, practices and needs to make Open Science happen.



THANK YOU!

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