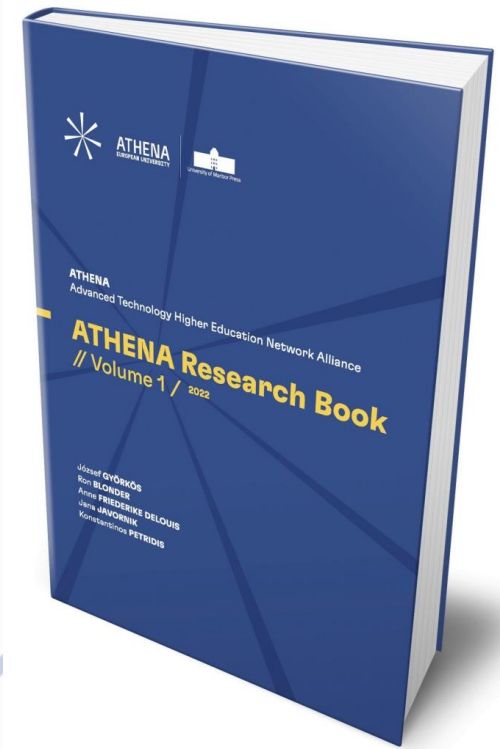




József Györkös

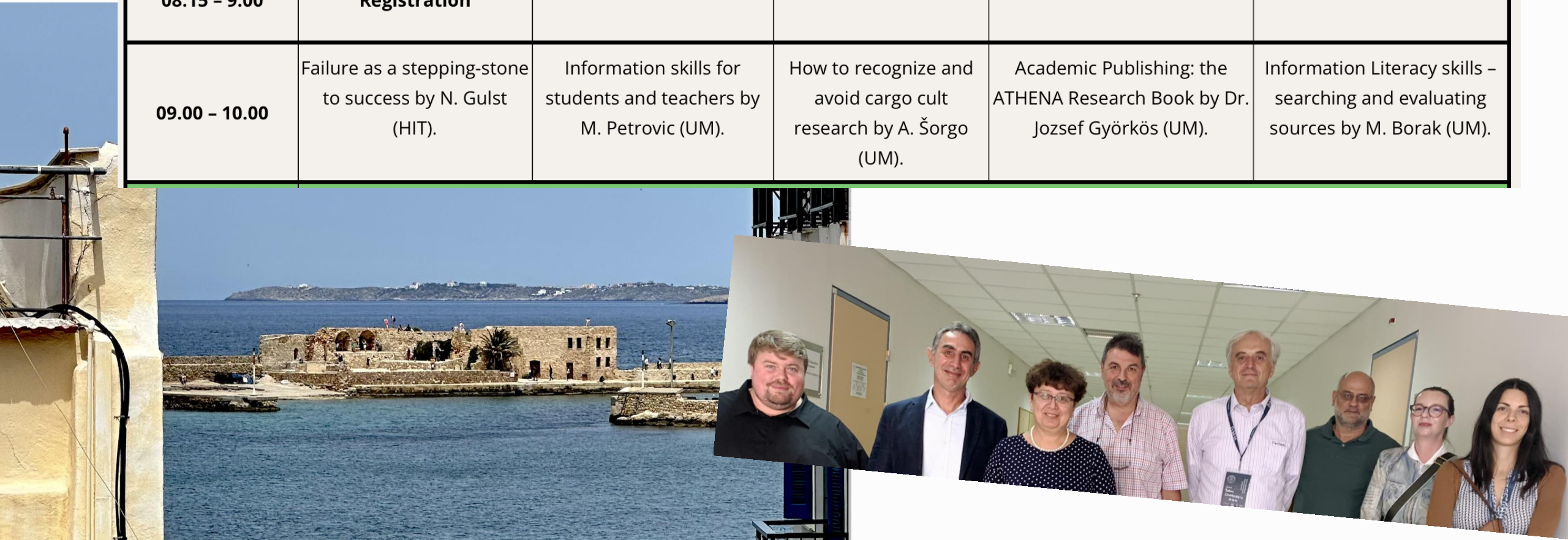
University of Maribor, Faculty of Electrical Engineering and Computer Science

Academic Publishing: the ATHENA Research Book case



Workshops in Chania, Crete (15th – 19th of May 2023) – in the main lecture hall.

Time Slot	Monday, 15th	Tuesday, 16th	Wednesday, 17th	Thursday, 18th	Friday, 19th
08.15 – 9.00	Registration				
09.00 – 10.00	Failure as a stepping-stone to success by N. Gulst (HIT).	Information skills for students and teachers by M. Petrovic (UM).	How to recognize and avoid cargo cult research by A. Šorgo (UM).	Academic Publishing: the ATHENA Research Book by Dr. Jozsef Györkös (UM).	Information Literacy skills – searching and evaluating sources by M. Borak (UM).



In this lecture ...

- 1. Introduction: the context of the ATHENA European University**
- 2. Academic publishing; let's calculate: $2023 - 1665 = 358$**
- 3. The process: something went wrong, could open access fix it?**
- 4. Bumpy road: from extreme quantification back to the content**
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Advanced Technology Higher Education Network Alliance –
the ATHENA European University:

federation of mid-size higher education institutions in nine
European countries.

draws on their combined strengths to reach a common
objective: deliver high-quality education with a positive
impact on research, youth employability and social
advancement at the national and European levels.

University
members

Hellenic Mediterranean University

Niccolò Cusano University

Polytechnic Institute of Porto

University of Maribor

University of Orléans

University of Siegen

Vilnius Gediminas Technical University

+ University of Vigo
+ Maria Curie-Skłodowska University

<https://athenauni.eu>



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EUROPEAN UNIVERSITY

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SOCIETY

ATHENA Talks



2D materials in tandem

ATHENA Talks



ATHENA Talks



Spatial Data Visualization with R

ATHENA WP4 Tasks & Deliverables

WP Leader: Tatjana Welzer Družovec

T4.1 Cooperation model for R&D

T4.2 Joint R&D projects

T4.3 Activities for student R&D work and projects

T4.4 Raising awareness of ATHENA R&D research activities

T4.5 Link to industry

D4.1 ATHENA R&D model

D4.2 ATHENA R&D website page

D4.3 ATHENA R&D annual book

D4.4 Shared resources directory

Partner R&D
Profile



R&D Topics



Joint R&D
Projects



Research
Priorities



Research
Infrastructures



In this lecture ...

1. Introduction: the context of the ATHENA European University

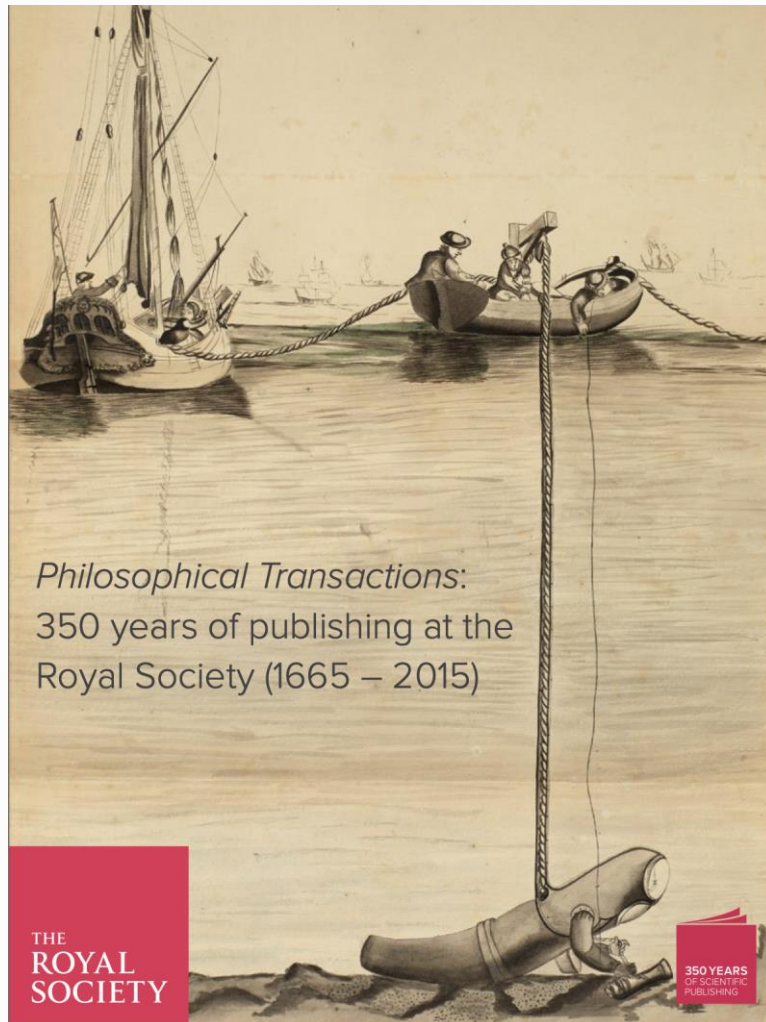
2. Academic publishing: let's calculate $2023 - 1665 = 358$

3. The process: something went wrong, could open access fix it?

4. Bumpy road: from extreme quantification back to the content

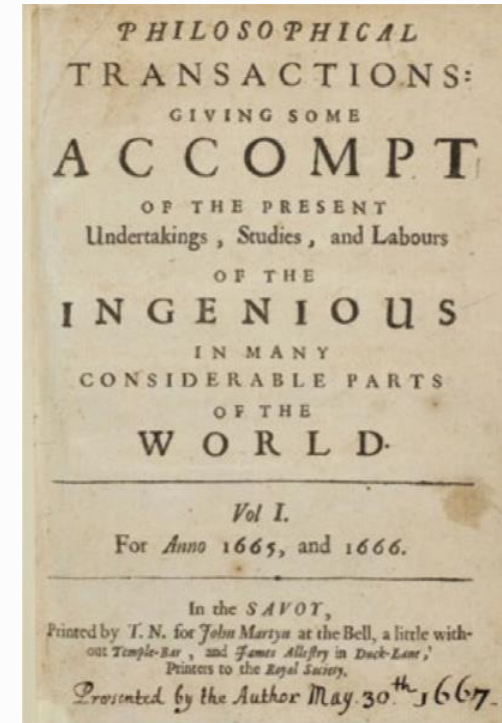
5. The case: ATHENA Research Book

6. Conclusions and discussion



Reference:

<https://royalsociety.org/-/media/publishing350/publishing350-exhibition-catalogue.pdf>



Heinrich (Henry) Oldenburg,
the society's first Joint secretary and mastermind
behind the *Philosophical Transactions*.

... 1665: plague ... 1666: Great Fire ... 1667: the second Anglo-Dutch war ...

Reference:

Future of scholarly publishing and scholarly communication

Report of the Expert Group to the European Commission (2019)

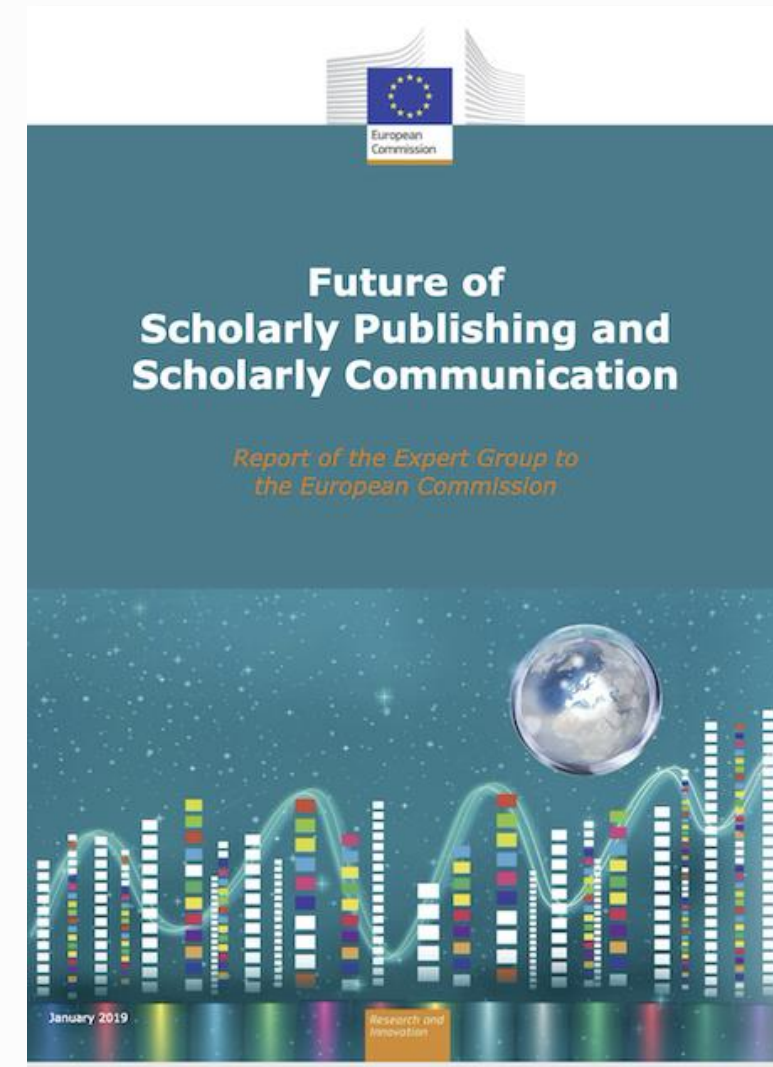
<https://op.europa.eu/s/yFUs>

Key functions of Scholarly Communication

Scholarly communication is best described by a set of core functions that were identified when the longest-standing scholarly journal, the *Philosophical Transactions of the Royal Society of London*, was being established in 1665. As Robert Merton²³ noted three hundred years later, Henry Oldenburg and Robert Boyle identified four key functions needed by scholarly publishing:

- **registration**, to establish that work had been undertaken by individuals or groups of researchers at a particular time, and thus their claim to precedence;
- **certification**, to establish the validity of the findings;
- **dissemination**, to make scholarly works and their findings accessible and visible;
- **preservation**, to ensure that the 'records of science' are preserved, and remain accessible, for the long term.

In recent decades, the **evaluation of** research has emerged as an additional function of scholarly communication because research institutions, funders, publishers, and researchers themselves have looked for mechanisms that can underpin judgements about scholarly merits or significance, as well as their wider impact. As will be seen later, however, the evaluation function is **one of the most contentious aspects** of scholarly publishing.



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Plan S
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Open Access a reality

Plan S is an initiative for Open Access publishing that was launched in September 2018. The plan is supported by cOAlition S, an international consortium of research funding and performing organisations. Plan S requires that, from 2021, scientific publications that result from research funded by public grants must be published in compliant Open Access journals or platforms.

 JOURNAL CHECKER TOOL

Which publishing options
are supported by your funder's OA policy?

Coordinated by



National funders


Der Wissenschaftsfonds.


ACADEMY OF FINLAND


Agence Nationale de la Recherche


Science Foundation Ireland For what's next


INFN Istituto Nazionale di Fisica Nucleare


Luxembourg National Research Fund


Netherlands Organisation for Scientific Research


The Research Council of Norway


NATIONAL SCIENCE CENTRE POLAND


ARRS Australian Research Council


Swedish Research Council for Health, Working Life and Welfare


FORMAS


UK Research and Innovation

Charitable foundations


wellcome


BILL & MELINDA GATES foundation


RIKSBANKENS JUBILEUMSFOND THE SWEDISH CENTRAL BANK FOR PROMOTING AND VITALIZING RESEARCH

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- 02** The Funders will develop robust criteria and requirements for the services that high-quality Open Access journals, Open Access platforms, and Open Access repositories must provide;
- 03** In cases where high-quality Open Access journals or platforms do not yet exist, the Funders will, in a coordinated way, provide incentives to establish and support them when appropriate; support will also be provided for Open Access infrastructures where necessary;
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- 05** The Funders support the diversity of business models for Open Access journals and platforms. When Open Access publication fees are applied, they must be commensurate with the publication services delivered and the structure of such [fees must be transparent](#) to inform the market and facilitate the potential standardisation and capping of payments of fees;
- 06** The Funders encourage governments, universities, research organisations, libraries, academies, and learned societies to align their strategies, policies, and practices, notably to ensure transparency.
- 07** The above principles shall apply to all types of scholarly publications, but it is understood that the timeline to achieve Open Access for [monographs](#) and book chapters will be longer and requires a separate and due process;
- 08** The Funders do not support the 'hybrid' model of publishing. However, as a transitional pathway towards full Open Access within a clearly defined timeframe, and only as part of [transformative arrangements](#), Funders may contribute to financially supporting such arrangements;
- 09** The Funders will monitor compliance and sanction non-compliant beneficiaries/grantees;
- 10** The Funders commit that when assessing research outputs during funding decisions they will value the intrinsic merit of the work and not consider the publication channel, its impact factor (or other journal metrics), or the publisher.

Open access: one of the key principles of Open Science

Open science: well recognised and established policy principle of European Union (2019) as well as UNESCO (2021) and implemented by varied educational and research institutions and societies.

Reference ([hyperlink](#))



Reference ([hyperlink](#))



Reference ([hyperlink](#))



8 ambitions of the EU's open science policy

1. Open Data

FAIR (Findable, Accessible, Interoperable and Re-usable data) principle

2. European Open Science Cloud (EOSC)

trusted, virtual, federated environment

3. New generation metrics

to research quality and impact

4. Future of scholarly communication

all peer-reviewed scientific publications should be freely accessible

5. Rewards

research career evaluation systems

6. Research integrity & reproducibility of scientific results

for all publicly funded research in the EU

7. Education and skills

on open science

8. Citizen science

the general public should be able to make significant contributions

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The paradox: quantitative research assessment



<https://sfdora.org>

General Recommendation

Do not use journal-based metrics, such as Journal Impact Factors, as a surrogate measure of the quality of individual research articles, to assess an individual scientist's contributions, or in hiring, promotion, or funding decisions.

“The number of peer reviewed publications and preprints that can be listed is limited to ten (five for Starting Grant applicants).

While it is expected that the publications have a significant reach, applicants are explicitly asked not to include the Journal Impact Factor.”

<https://sfdora.org>

Resource: [ERC Work Programme 2023](#)

Early achievements track record

In the Track Record (see “Proposal description”), the applicant Principal Investigator should list (if applicable, and in addition to any other scientific achievements deemed relevant by the applicant in relation to their research field and project):

- 1. Up to ten publications in major international peer-reviewed multi-disciplinary scientific journals and/or in the leading international peer-reviewed journals, peer-reviewed conferences proceedings and/or monographs of their respective research fields, highlighting those as main author or without the presence as co-author of their PhD supervisor (properly referenced, field relevant bibliometric indicators²⁴ may also be included); preprints may be included, if freely available from a preprint server (preprints should be properly referenced and either a link to the preprint or a DOI should be provided);**
- 2. Research monographs and any translations thereof;**
- 3. Granted patent(s);**
- 4. Invited presentations to internationally established conferences and/or international advanced schools;**
- 5. Prizes, awards, academy memberships.**

²⁴ Except the Journal Impact Factor.

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ATHENA Research Book

ATHENA aims at fostering excellence in research and innovation by facilitating international cooperation. The ATHENA Research Book provides a platform that promotes joint and interdisciplinary research projects of both advanced and early-career researchers.

Furthermore, it fosters ATHENA's research and innovation capabilities and the strong cooperation potential of all contributing ATHENA partners.



<https://athenauni.eu>



ATHENA Research Book, Volume 1

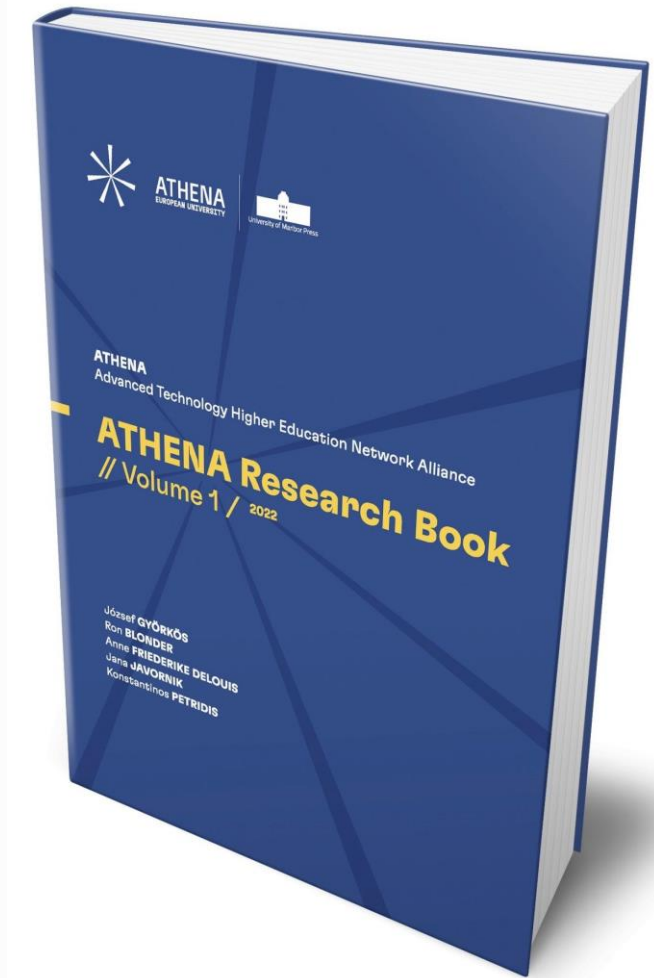
ATHENA Research Book, Volume 1 is published

The first volume is available for download at the following DOI:

<https://doi.org/10.18690/um.3.2022>

Editors:

József Györkös, University of Maribor; **Ron Blonder**, Weizmann Institute of Science;
Anne Friderike Delouis, Orléans University; **Jana Javornik**, University of Leeds;
Konstantinos Petridis, Hellenic Mediterranean University



Technical editor:
Saša Kuhar

<https://doi.org/10.18690/um.3.2022>



University of Maribor Press

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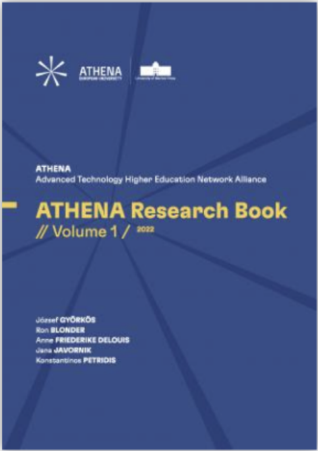
ATHENA Research Book, Volume 1

József Györkös (ed.), University of Maribor; Ron Blonder (ed.), Weizmann Institute of Science; Anne Friderike Delouis (ed.), Orléans University; Jana Javornik (ed.), University of Leeds; Konstantinos Petridis (ed.), Hellenic Mediterranean University

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Synopsis

The ATHENA European University is an alliance of nine Higher Education Institutions with the mission of fostering excellence in research and innovation by facilitating international cooperation. The ATHENA acronym stands for Advanced Technologies in Higher Education Alliance. The partner



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SUBJECT

Browse by "Subject"...

YEAR

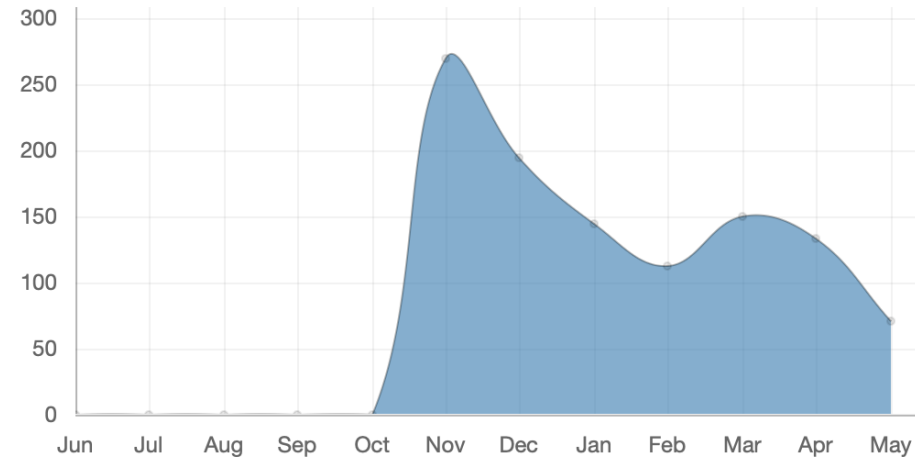
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Advanced Technology Higher Education Network Alliance,
The European University

ATHENA Research Book

Volume 2

Volume 2: Draft TOC

Editorial introduction

Chapter one: Research activities of ATHENA partner institutions

Chapter two: Annotated bibliography of partner institutions

Chapter three: Student contribution

ATHENA Talks: Compendium

Work package leaders: ATHENA 2020-2023 reports

ATHENA Research Book

Volume 2

Chapter one: Research activities of ATHENA partner institutions

The chapter aims to deliver a comprehensive insight into ATHENA partners' research activities, covering both the institution's overall research landscape and the outstanding achievements in research and innovation.

Authors: ATHENA Research Board members

with assistance of ARICs and other collaborators from ATHENA partner institution

Further questions and support: ATHENA-research-book@um.si (József Györkös, Saša Kuhar)

Template: <https://athenauni.eu/wp-content/uploads/2023/01/Template-ARB-2-Ch1.zip>

ATHENA Research Book

Volume 2

Chapter two: Annotated bibliography of partner institutions

List of outstanding publications of researchers from ATHENA partner institution that have been published in the last five years (2017-2022/3) . The list should cover the most notable research activities and following the criteria of excellence in research quality.

Contributors of the lists:

ATHENA Research Board members, scientific boards of partner institutions
with assistance of ARICs and other collaborators from ATHENA partner institution

Further questions and support: ATHENA-research-book@um.si (József Györkös, Saša Kuhar)

Template: <https://athenauni.eu/wp-content/uploads/2023/01/Template-ARB-2-Ch2.zip>

ATHENA Research Book

Volume 2

Chapter three: Student contributions

The student contributions can be either

- (a) short communications on student theses at the master's or doctoral level or
- (b) short communications on best practices and cooperation models, displaying the interrelation of teaching courses and the research from the students' perspective, whereby supervisor/mentor involvement should also be noted.

Contributors: Students and mentors

Further questions and support: ATHENA-research-book@um.si (József Györkös, Saša Kuhar)

Call for contributions/template:

<https://athenauni.eu/research/publications/cfp-athena-research-book-vol-2/>

Who are we asking for attention and support?

Chapter one: Research activities of ATHENA partner institutions

Research Board members

[informed at the Research Board meeting on December 22, 2023]

ARICs (ATHENA Research and Innovation Coordinators),

WP leaders and attendees

Chapter two: Annotated bibliography of partner institutions

Research Board members

ARICs, WP leaders and attendees

Chapter three: Student contribution

WP leaders and WP stand-up meeting attendees

ATHENA Research Board
members:

Michael Tatarakis (HMU, chair),
Dean Korošak (UM),
Peter Haring Bolivar (USIEGEN),
Pascal Bonnet (UORL),
Paula Escudeiro (IPP),
Wieslaw Gruszecki (UMCS),
Dalius Navakas (VGTU),
Armando Piccardi (UNC),
Maria Belén Rubio Armesto
(UVIGO)

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