TU Delft OPEN Publishing Annual Report 2023

TU Delft's community-driven diamond open access university publisher

TUDelft | Library

Annual Report 2023

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As TU Delft OPEN Publishing, we are on a mission: create a community-driven and open access (OA) scholarly communication platform that provides resilient publishing services to the dynamic community of teachers and researchers at TU Delft. Now, four years in existence, we are proud to look back on what we achieved and look forward to working with many more scholars across all Faculties and supporting them in their journey to bring their research to the world!

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Contact

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Building 21
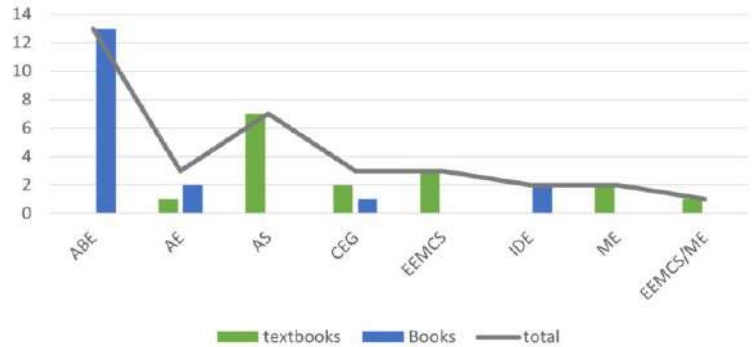Prometheusplein 1
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Portfolio - Books

Our book collection contains textbooks, conference books, monographs and edited volumes.
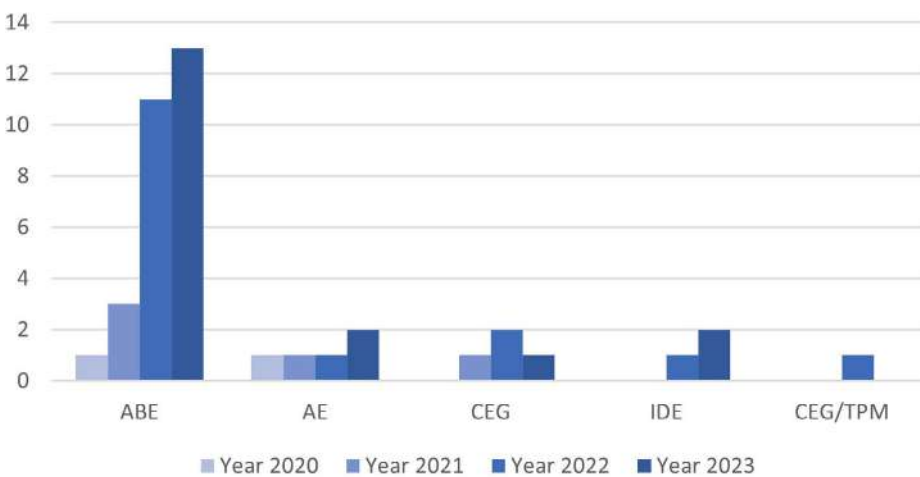
In 2023, we published 34 books, including 12 classical textbooks, 4 interactive textbooks and 3 conference books. 4 textbooks resulted from a collaboration with other universities and 6 monographs and edited volumes were co-published books in partnership with other publishers.

We started a partnership with Mkuki na Nyota publishers from Tanzania where we co-published Things Don't Really Exist Until You Give Them a Name: Unpacking Urban Heritage.

Books Published in 2023
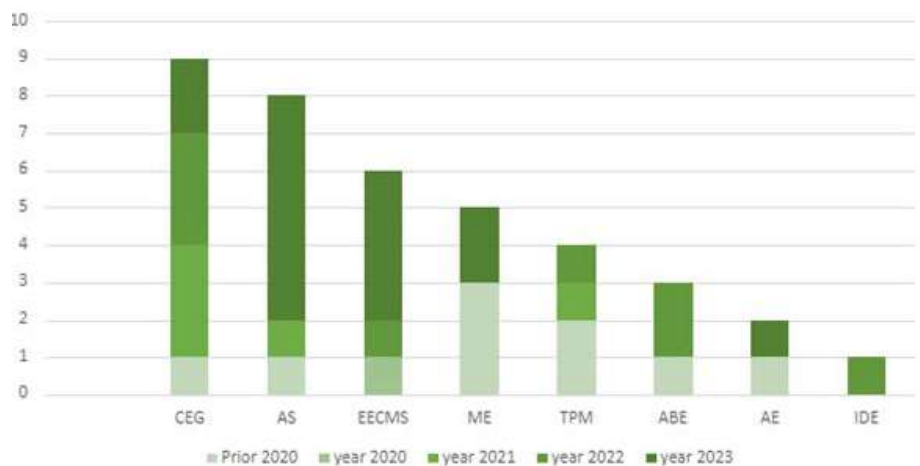

Monographs/ Edited Volume/ Conference Books

We introduced an "Education Series," where our authors address themes they encounter in their teaching activities at the TU Delft.

These include aspects such as the role of collaboration in learning, multidisciplinary approaches to education (and research), the need for a broader skill set beyond technical knowledge, more holistic roles for engineers, emphasising social responsibility, innovation, and sustainability, and the integration of societal values, and the critical examination thereof, into university education. More

In late 2022, Delft Academic Press (DAP) ended its longstanding activities of publishing and distributing physical teaching materials, causing significant disruptions for lecturers at the TU Delft. We, therefore, acquired 20 textbooks published by DAP and gradually proceeded to publish all the titles we have publishing rights for as open textbooks throughout 2023.

The average copyright check took is 8 hours per book.

Textbooks

The evaluation of the DAP acquisition can be found in the appendix.

Portfolio - Journals

Visual by Emilie Yane Lopes

Across all our OA journals we published 189 articles in 2023.

TU Delft OPEN Publishing publishes fourteen and hosts three Open Access (OA) journals in 2023

The Journal of Open Aviation Science, Junzi Sun (co-editor in Chief, Faculty AE-TU Delft) and Xavier Olive (co-editor in Chief, ONERA, France) published its first articles and first conference proceedings.

The Journal of Coastal and Riverine Flood Risk, Jeremy Bricker (co-editor in Chief, University of Michigan), Bas Jonkman (co-editor in Chief, Faculty CEG-TU Delft), Grit Martinez (co-editor in Chief, Ecologic Institute, Germany) and Miguel Esteban (co-editor in Chief, Waseda University, Japan)- published its first articles and its first special issue.

nb: please see the 2023 annual report appendix for more details

Improved Services

Biorender: In 2021 TU Delft started a two-year pilot with BioRender. BioRender allows researchers to create professional figures in minutes through the use of pre-made icons and templates. This allows researchers to promote and communicate their research more effectively and create figures much more efficiently. BioRender is much easier to use compared to other illustrator programmes and has integrations with, for example, the Protein Data Bank, which allows import of structures. Based on requests for BioRender licenses from researchers from three faculties (AS, 3mE and EWI) it was explored whether it was possible to offer these licences and a proposal was discussed with the Library Management Team in July 2020. In 2023 the pilot was prolonged as a steady service for researchers. By the end of 2023 the seats were expanded to a number of 200.

Indexing: Our books included master level textbooks are indexed in Scopus.

Co-creation: We started a partnership with Jap Sam Books, independent publishing in the field of architecture, art, philosophy, design, and photography which includes journals and books. First publications are expected in 2024.

Software Upgrades: There have been five upgrades to the software used for the journals and books platforms. These upgrades aimed to enhance functionality, improve user experience, fix bugs, and introduce new features.

Themes with TU Delft Brand: Five themes have been created for the book platforms and two for the journal platform. These themes (javascript, CSS) include design elements such as positioning of text, colour schemes, typography, and layout styles representing the TU Delft brand identity.

Membership Crossref: In 2023, we became a member of Crossref and began rating our Datacite DOIs to Crossref. This process will continue in 2024. Crossref will increase the visibility and discoverability of our publications and consequently increase the recognition of our authors and editors.

Open Science Initiatives

We organised two events the codecheck hackathon as part of the peer-review of data and software pilot, and a panel discussion on peer review.

We started piloting the use of ChatGPT to assist the Journal of Aviation Science in the copy-editing stage. To increase the visibility of our authors and editor, we have introduced the Authors/Editors spotlights that are published on our blog. We integrated Publons (Reviewer Locator & Reviewers Recognition) with our Open Journals System (OJS) in order to monitor journal engagement with reviewers, and as the pilot concludes, we are conducting UX interviews with editors, authors, and reviewers to evaluate both tools', impact on the publishing process and peer-review practices.

Together with the publication & collection taskforce we've created a pilot for three PhD's/ student assistants to investigate what type of support in regard to (open) publishing is needed in the faculties. We've recruited two, but unfortunately one was pressured to quit this job after a few weeks. Fortunately, we still have Afra Knaap who is still investigating at the faculty of Architecture.

→ Peer Review innovations: peer-review of data and software pilot

The pilot project on peer reviewing datasets and software, a collaboration between TU Delft OPEN Publishing and Research Data and Software teams, is experimenting with innovative open peer review processes that consider data and software as independent research outputs. It aims to make the methodology of data and software production more open and transparent, optimising reuse of data, enhancing reproducibility and promoting principles of Open Science. The pilot has 3 phases. Phase one of the pilot focused on a) engaging people and communities interested in data, software, open publishing and open science, b) seeking collaborations through events, c) writing a guideline and idea for implementation, and d) testing the peer review guidelines.Phase 1 (c,d) Phases 2 and 3, which will focus on sustainable integration of data/software reviews into publication workflows and additional policy documentation of the project recommendations, will be deployed after 2024 Q1. Check the report.

→ Communication and Engagement with researchers and teachers

Our communication and engagement efforts with researchers and teachers centred on a comprehensive strategy. We organized a panel discussion on peer-review to get collaborative feedback, and we initiated Authors/Editors Spotlights, recognizing academic contributions to promote a sense of community. Exploring the integration of open scholarly publishing advocacy in faculties, we aim to offer guidance on open-access publishing, funding, and policies. We are looking into expanding our outreach beyond academia through public engagement initiatives, including plain language summaries for publications and blog posts.

→ Editorial Support

In response to some of our researchers' preferences, we enlisted a student proficient in Latex to assist with transforming publications/templates. Another student focused on creating a generic book template, streamlining the book creation process, and ensuring consistency, and professionalism. Additionally, we are exploring the integration of AI for copyediting, and enhancing language and grammar checks to maintain high-quality outputs in our publications.

Reviewer Recognition

We succeeded to make one step forward for the recognition of the reviewer work of our first open identity open reviews reports in our journal The Evolving Scholar. The reviews are available immediately after submission, linked to the reviewed paper. These review reports are open for the transparency of the review process. This initiative aligns with our commitment to fostering a transparent and streamlined peer review system within our academic publishing framework. Mainstreaming Open Science Fund recipients

Connecting FAIR data with OA publications

This pilot project started in March 2023 and led by two student assistants explore the practices of TUD researchers when it comes to mentioning, sharing, and citing their data in the publications. An assessment framework has been developed, and a community session has been carried out at the Open Science Festival on 31-08-2023; at the moment, a blog on the Open Science Festival session and a report on the findings of the project is close to completion.

DelftX: Open Science-Sharing Your research to the world.

This Massive Open Online Course (MOOC) introduces Open Science principles, covers Open Data management, FAIR software practices, and citizen science engagement. Participants learned how to effectively enhance research visibility, manage data, and navigate Open Access publishing, with practical applications and discussions on implementing Open Science policies. Between 25 October-5 and December 2023, the MOOC focused on Open Access publishing. The course syllabus is available here.

Open Access

- 98% of the peer-reviewed articles and 91% of the conference papers published by TU Delft in 2022 were open access respectively.

- The Executive Board (CvB) approved in October 2023 the new Open Access policy and guidelines

- The TU Delft Executive Board decided on 8 November 2022, to institute the TU Delft Short Scientific Work Scheme as a policy as part of the terms of employment. The scheme started from 01-02-2023 Short Scientific work at TU Delft as based on Article 25fa Dutch Copyright Act. It means Tthis policy, known as the Tavern Amendment, lets authors of publicly funded scientific works make their articles freely available after six months. This right overrides any publisher agreements, allowing authors to share their work in the university repository.
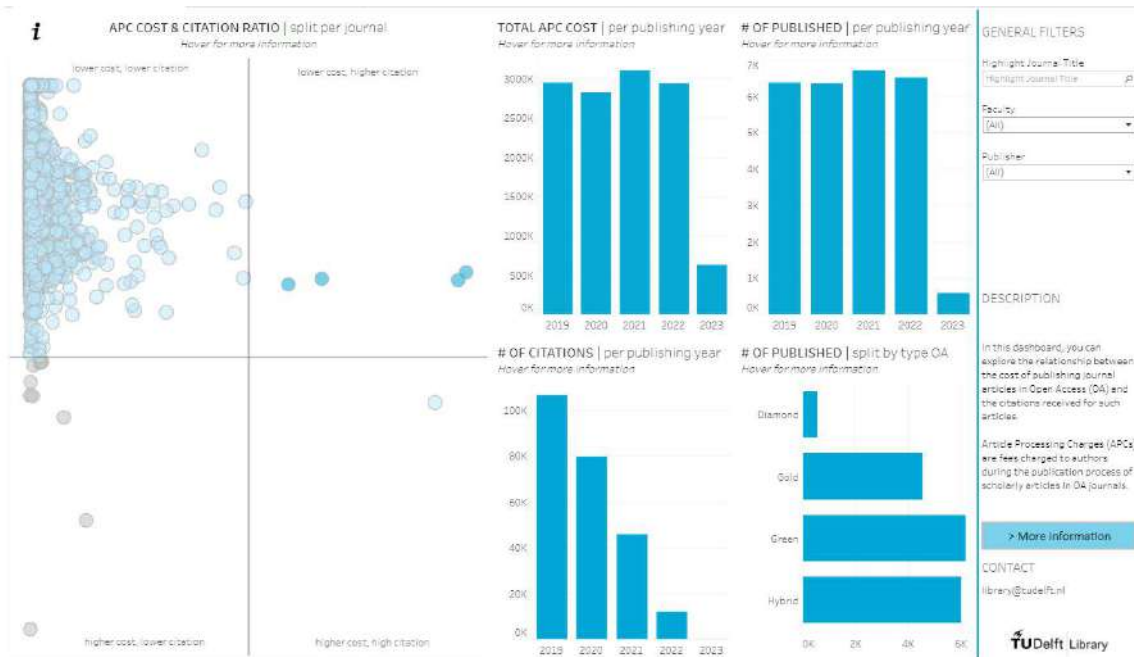
Publications and Collection Taskforce

One of the taskforce aims is to start a discussion about our publication culture. As a library, we have experts who see concerns and trends both on a national and international level.
If we want to be pro-active instead of re-active, we feel it would be a positive first step to chart the publication cultures at the faculties of our university.

Once we have a clear picture of the current situation, we'd suggest starting a broader discussion on what type of publication culture we want to have and what steps each faculty has to take to get there. Our taskforces are there to lend their expertise and as a link to the support of the library. To start, we want to make employees more aware of both their reading and publication habits.

We've delivered two dashboards in 2023 to support that:

Journal Citations and APC costs (previously named author awareness). This dashboard shows APC costs from journals in relation to the number of citations of the article (impact). It can help authors decide what the best journal to publish in is.

Journal collection This dashboard shows journals and their number of views (read), references and publications from TU Delft authors.

Photo at Coastlab24

A. Membership

We became members of OASPA (Open Access Scholarly Publishing Association), a diverse community of organisations engaged in open scholarship. We hope that OASPA will be a unifying factor that supports all bona fide open access initiatives and thus act as a partner for us in the work we do.

B. Conferences, meetings, communication

- TU Delft OPEN visited the 3rd AEUP meeting in Tallinn, Estonia, 16-18 May, 2023
  2023 3rd AEUP Conference – AEUP

- Open Science Festival, 31-08-2023

  - Cooperative Publishing: Building a New Social Infrastructure
    Ludo Waltman, Anna van 't Veer, Dan Rudmann, Thed van Leeuwen & Leo Waaijers (Leiden University), **Just de Leeuwe & Frédérique Belliard** (Delft University).

  - Topic: How might we develop local communities to rethink and enact scholarly publishing? In this interactive session, we will consider and map together the social infrastructure necessary to enable community-led publishing initiatives within our own organisations.

  - Connecting Open Data to Open Access
    Madalina Fron (B.Sc of Computer Science and Engineering, TU Delft), **Zahra Khoshnevis** (M.Sc of Building Technology, TU Delft), **Yan Wang, Just de Leeuwe & Frédérique Belliard** (TU Delft Library).

  - Workshop: A 45-minute session will be led by students and focus on promoting the trustworthiness of datasets used in academic publications and introducing our framework that estimates the extent of the connection rate of OA publications to FAIR data practices.

C. Communication

We've presented both dashboards , together with a discussion paper on publication culture, to the Deans when Irene Haslinger and Anke Versteeg had their yearly talks with them.

We've also presented the dashboards to others in various ways, for example:

- The Publication & Collection Taskforces, where possible in person and otherwise through email and MSTeams.

- Participants of the OS peer review event

- Participants of the OPEN and FAIR Science network event

The data for 2023 will be added by research analytics in 2024 to update the dashboards and show data over time. We will update them each year as long as they are used.

The Publication & Collection Taskforce, in collaboration with the Scholarly Communication & Publication team, has written a discussion paper on the publication culture at TU Delft and our concerns. This has been discussed with the deans of all faculties by Irene Haslinger and Anke Versteeg. It has been well received and next steps are being formulated.

Blog

To increase the visibility of our authors and editor, we have introduced the Authors/Editors spotlights that are published on our blog. The blog launched in 2021, aims to share innovative concepts, to trigger discussion and to highlight our latest developments and progress. This blog endorses openness, fairness, and diversity. In 2023 we produced 14 Blogs, including four Editor/authors spotlights.
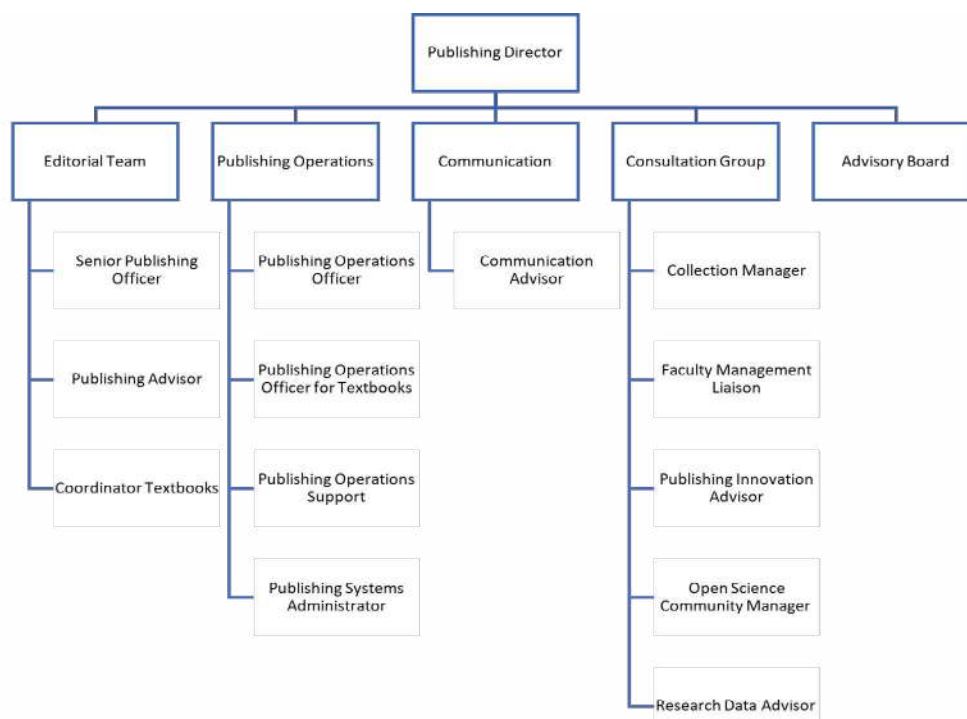
Twitter/X

Our twitter account @tudelftopen produced 54 original tweets.

The number of followers end of 2023 was 701, a growth of 19% compared to 2022
(ultimo 2022: 590 followers)

Organisation

We added two new members to the team: a publishing operations officer and Publishing Operations Support. We also reorganised our team to serve our community better.

https://www.tudelft.nl/library/actuele-themas/open-publishing/about/our-team

The Publishing Director oversees the entire publishing operation. The Editorial Team is responsible for managing content creation and review processes. Publishing Operations handles the technical aspects of publishing, such as production and distribution. The Communication Department manages external and internal communication. The Publishing Consultation Group provides guidance to the Editorial Team. The Advisory Board offers strategic advice and direction to the University Publisher.

Faculties abbreviations

Aerospace Engineering	AE
Applied Sciences	AS
Architecture and the Built Environment	ABBE
Civil Engineering and Geosciences	CEG
Industrial Design Engineering	IDE
Electrical Engineering, Mathematics & Computer Science	EEMCS
Mechanical, Maritime and Materials Engineering	ME
Technology, Policy and Management	TPM

Appendix A

A- DAP evaluation project

Numbers

Total of DAP titles purchased	**20**
Number of titles published as open textbooks	**7**
Titles expected to be published as open textbooks in 2024	**5 incl. 2 new editions**
Titles that will not be published as open textbooks	**3**
Titles where discussion with authors are still in progress	**3**
Titles that still need to be processed	**3**

Titles published as open Textbooks:

- Werktuigkundige Systemen / Jan C. Cool , Gabriëlle J.M. Tuijthof, Giuseppe Radaelli, Regine W. Vroom

- Numerical Methods in Scientific Computing / Jos van Kan, Guus Segal, Fred Vermolen

- Classical Numerical Methods in Scientific Computing / Jos van Kan, Guus Segal, Fred Vermolen

- Structured Electronics Design: A Conceptual Approach to Amplifier Design, 3rd ed./ Anton J.M. Montagne

- Fysische Transportverschijnselen: Denken in Balansen / Harrie van den Akker, Robert F. Mudde

- 200 Vraagstukken Fysische Transportverschijnselen / Harrie van den Akker, Robert F. Mudde

- Numerical Methods for Ordinary Differential Equations / Kees Vuik, Fred Vermolen, Martin van Gijzen, Thea Vuik

Titles expected to be published as open textbooks

- Analysis and Modelling of Physical Transport Phenomena 2nd. / K. Hanjalic, S. Kenjeres, M.J. Tummers, H.J.J. Jonker

- Silicon Sensors and Actuators / S. Middelhoek, S.A Audet, P.J. French

- Fracture Mechanics / M. Janssen, J. Zuidema. R.J.H. Wanhill

Titles expected to be published as open textbooks as second edition

- Numerical Methods for Partial Differential Equations / J. van Kan, A. Segal, F. Vermolen, H. Kraaijevanger

- Fysische Transportverschijnselen: Denken in Balansen / Harrie van den Akker, Robert F. Mudde

Titles that will not be published as open textbooks

- Mathematical Systems Theory / G.J. Olsder, J.W. van der Woude, J.G. Maks, D. Jeltsema

- Electronic instrumentation / P.P.L. Regtien

- Werktuigkundige systemen, vraagstukken en antwoorden / R. Vroom

Titles where discussion with authors are still in progress

- Het Transportsysteem /J. Baggen, H. van Ham

- Inleiding Bouwmanagement /J.W.F. Wamelink

- Inleiding waterbouwkunde / K.G. Bezuyen, Marcel J.F Stive, G.J.C. Vaes, J.K. Vrijling, T.J. Zitman

Titles that still need to be processed

- Adjustment theory / P.J.G. Teunissen

- Testing theory/ P.J.G. Teunissen

- Dynamic data processing / P.J.G. Teunissen

- Introduction to bed, bank and shore protection / Bas Hofland, Henk Jan Verhagen, Gerrit Jan Schiereck

DAP evaluation project- work procedure

Throughout this project, we encountered various challenges due to the authors' limited understanding of the intricacies involved in creating an open textbook, particularly considering the original publication was from a commercial publisher. In addition, there were inconsistencies in the materials provided by the DAP, adding to the complexity of the project.

Overview of the challenges

- Getting in touch with retired authors or those who moved away from the TU Delft

- Authors lack of understanding of the implications of creating open textbook

- Replacement of copyrighted images

- Similarity check

- It required extra effort or adaptation

  ○ For authors who wished to have a new book cover for the open access version of the textbooks or who preferred not to use the standard cover formats resulted in increased textbook costs.

  ○ Textbooks with new titles to distinguish them from the original print publication

  ○ Situations where authors no longer had the original files available requiring everything to be created from scratch

  ○ Dealing with incomplete file

Appendix B

Publishing services

Print on Demand

TU Delft OPEN Publishing works with Print on Demand (POD) Service. The POD supplier is HollandRidderkerk. They store the digital files in their warehouse, arrange the financial transactions with the customer, and arrange worldwide parcel shipping.

Holland Ridderkerk handled 329 Book purchase (books and textbooks) orders in 2023, while in 2022, it was 283.

Copyright check: time invested

Open books: 26 hours for 9 books: **average 2,9 hours per book**

Open interactive textbooks: 7,5 hours for 5 interactive textbooks: **average 1,5 hours per book**

Open textbooks: 4 hours for 9 open textbooks: **average 0,4 hour per book**

Transformation of DAP textbooks to open textbooks: 90 hours for 11 books: **average 8,2 hours per book**

Appendix C

Portfolio

Journals

Faculties	Name \ Number of articles published	year 2020	year 2021	year 2022	year 2023	Total
ABE	Journal of Delta Urbanism (1st issue in 2020)	9	9	3	7	28
ABE	A+BE | Architecture and the Built Environment (1st issue 2011)	22	24	25	24	95
ABE	FOOTPRINT	9	22	23	8	62
ABE	Writingplace (1st issue 2018)	8	7	10	24	49
CITG	International Journal of Water Governance (flipped in 2021)	nvt	2	4	6	12
CITG	Journal of Coastal and Hydraulic Structures (1st issue in 2021)	nvt	10	11	11	32
CITG	Journal of Coastal and Riverine Flood Risk (1st issue 2023)	nvt	nvt	nvt	11	11
AS	Journal of Open Aviation Science (1st issue in 2023)	nvt	nvt	nvt	38	38
TPM	European Journal of Transport and Infrastructure Research (fli	29	23	21	8	81
TPM	Journal of Integrated Security and Safety Science (1st issue 201	0	3	1	0	4
TPM	Journal of Supply Chain Management Science (1st issue 2020)	10	10	9	8	37
TPM	Journal of standardisation (1st issue 2022)	nvt	nvt	5	5	10
AS	Superhero Science and Technology (1st issue 2018)	4	1	1	0	6
Multidiscipli	The Evolving Scholar (launched in 2021)	n.a	67	61	39	167
	Total	**91**	**178**	**174**	**189**	**632**