

# Short design document for the new student theses repository front-end

By Ashley Hemerik – 10-01-2023

The screenshots illustrate the proposed design for the TU Delft Student Thesis Repository front-end, showcasing various features and user interactions.

- Top Row:**
  - Homepage:** Shows a large image of the Delft University of Technology's main building, a search bar, and a 'Featured Thesis' section.
  - Search Results:** Displays a list of theses filtered by 'Faculty/Program' (e.g., Industrial Design Engineering) and 'Title' (e.g., 'Design for Interaction').
  - Thesis Detail Page:** Shows a detailed view of a thesis titled 'Design for Interaction', including the title, subtitle, supervisor information, abstract, keywords, and a graphic abstract.
- Middle Row:**
  - User Profile:** Shows a user profile for 'Studentname Lastname' with sections for 'About', 'Links', 'Theses', and 'Worked with'.
  - Thesis Detail Page (Large Image):** Shows a thesis detail page with a large, prominent image at the top.
  - Thesis Detail Page (Another View):** Shows another thesis detail page with a different layout and additional sections.
- Bottom Row:**
  - Category Pages:** Shows two category pages: 'Design for Interaction' and 'Additive Manufacturing', each listing several theses.
  - Metadata Upload Form:** Shows a form for uploading thesis metadata, including fields for 'Original Language of the Thesis', 'Title', 'Abstract', 'Keywords', 'Programme', 'Other Bibliographical Notes', and 'Contributors'.

## Introduction

I've been redesigning the student theses repository for the last half year for my graduation project. This document walks you through the design considerations and decisions I've made; the results of my research into the users of the repository; and the importance of the features.

## Resources

The interactive prototype can be found at

<https://ashleyhemerik.github.io/Prototype%202/>

A video of me walking through the digital prototype and explaining my design decisions

<https://ashleyhemerik.github.io/Images/HTML%20prototype%20Walkthrough%20Compressed.mp4>

The source code for my report and prototype can be found at

<https://github.com/AshleyHemerik/AshleyHemerik.github.io>

My graduation report can be found at <https://ashleyhemerik.github.io>

My latest contact information will be on my portfolio website <https://ashleyhemerik.nl/>

## Who uses the student theses repository?

The student theses repository is mostly used by:

- **'Orienting students'**, who haven't started their graduation projects yet, but they're looking into what a graduation project might look like, what subjects they might be interested in, and what supervisors they might like. They want exemplary reports for their masters programme/topic.
- **'Benchmarking students'**, who are currently busy with their graduation projects. They're looking at similar topics and reports to theirs, so that they can compare, get inspired, and see what's expected of them. They want exemplary reports for their masters programme/topic.
- **'Reporting students'**, who are writing their report, and want to convey information. The repository must support their needs as best as possible via multimedia support.
- **'Uploaders'**, who have to go through the upload process during a very stressful period. The design needs to help them feel less anxious with clear communication and a transparent process.
- **'Targeted downloaders'**, who know exactly what report they want to download. They want to get to it quickly, hit download, and leave again.
- **'Alumni'**, who want their repository entry to be something they can be proud of, and have control over what information of them is on the website after they've graduated.
- **'Supervisors'**, who want to show off their supervisees' works.
- **'Headhunters'**, are rare, but also use the repository. They want to find recent graduates from certain masters programmes, or supervisors.
- **'Researchers'**, often use external search engines like google scholar, but do happen upon the repository. Abstracts, keywords, quick downloads, and reports similar in topic are important to them.

## New features by importance

### Must Have:

- (Thesis previews) Views and download statistics
- (Thesis preview) Reports that require login to access
- (Thesis preview) Embargo warning
- (Homepage) [New/Trending/Top] in [Keyword/Programme]
- (Search page) sort by [New/Trending/Top]
- (Search page) Filter by Faculty/programme
- (Search page) Quick filter for include reports under embargo
- (Search page) Advanced search function
- Supervisor Profile
- (Entry page) Related Theses
- (Author/supervisor profile) Similar Profiles
- (Entry page) Takedown Request
- (Entry page) Graphic abstract/poster
- (Entry page) video support
- (Entry page) image support
- (Entry page) iFrame support
- (Entry page) Downloadable files section for all files (including unembedded types)
- (Entry page) Audio file support
- (Entry page) Links
- (Entry page) Large on-site PDF reader
- (Entry page) Author profile card
- (Entry page) Supervisor profile card
- (Supervisor profile) Supervision availability
- (Programme page) Available prolific supervisors for this programme
- (Programme page) [New/Trending/Popular] theses
- (supervisor profile) supervisor notes on supervised theses

- (supervisor profile) supervised programmes
- (supervisor profile) supervised theses
- (supervisor profile) Links
- “View more” for all collections

## Should have

- (Homepage) Featured Thesis
- (Thesis previews) Prize chips next to keywords
- (Thesis previews) Pitches (new metadata: 1 or 2 sentence abstract)
- (Thesis previews) Automatically generated pitches with machine learning
- Full-website entries
- Programme Profile
- Keyword Profile
- (Homepage) Awards section
- History
- (Entry page) Cite Button
- (Entry page) 3D model viewer support
- (Programme page) Often used keywords in programme
- (Programme page) Related programmes (from the same faculty)
- (Programme page) Recent graduates
- (supervisor profile) Link to their research.tudelft.nl profile

## Could have

- The bookmark system
- (Entry page) advanced view and download statistics
- (Search page) Include supervisors in search results
- Author Profile
- (Entry page) Share button
- (Entry page) bibliography
- (Entry page) Map preview (google maps widget)

- (Entry page) advanced report statistics
- (Author profile) worked with
- (supervisor profile) Related keywords

## Changes to the system

### Multimedia

The new system should support the use of different types of media and filetypes to the thesis entries, as multimedia reporting can enable better explanations from the writer, increase interactivity, and be more inspiring, and more understandable to the reader.

Classic formats such as video, images, and audio files should be able to be played within the website of the repository itself. Iframes and embeds from other websites can provide an infinite amount of interactivity to the reader (like 3D model viewers from sketchfab, map widgets from google maps, CAD viewers, code compiler widgets, etc.). Files that aren't supported can be shown in a download section, which readers can then download for themselves, and play around with, look at source code, or recreate the experiments themselves, and much more. A section for links that have something to do with the project can provide a lot of value to the reader as well.

Media can also be extracted from already uploaded theses. PDF link and image extractors already exist, if these are applied automatically to the current repository, it can make the entry pages for theses theses a lot more interactive. Links to images and videos can already show the image or video on the page as well.

Other ideas for interactive multimedia include:

- more interactive PDF viewers (like issuu)
- website-as-report support (instead of PDF)
- embedding the file viewer widget from the TU dataset repository
- bespoke embedded 3d applications (like with Three.js)
- integrated 3D model and/or compiler support (as opposed to doing it via iframes from other people's websites)
- autogenerated wordclouds
- summarizing abstracts into shorter 'pitches' with AI
- showing the coordinates currently in the PURE system on a google maps widget.

## Popularity and prizes

Students reported wanting to see theses of quality to get inspired by. There are many good reasons why we don't put the grades that the theses got on the repository, but some indication of quality is needed. I believe that popularity, based on views, downloads, and how a thesis has been bookmarked. This can be turned into a numerical value, which can then be used for searching. With this information, users could sort theses by date, popularity, or trending. The latter would include theses that have recently gotten a lot of views and downloads, so these would be recent good theses, or recently relevant good theses.

A manual approach to this should also be used. Some faculties, like IDE, give out prizes for best thesis of the year. These theses could be featured on the front page.

Featured theses, popular theses, and trending theses could receive a badge to indicate that they are likely of high quality, which could help readers explore the repository without feeling lost.

## Supervisors

Supervisors play a big role in the graduation project world. Students might like to find a supervisor that specializes in their field of interest, and know if they're available for supervision; supervisors might want to show off their supervised alumnus' work and comment on it publicly; headhunters might want to get in contact with alumni that worked with a certain specialist in a field.

For this reason, it is important that supervisors get a profile page on the repository website. Their ORCID can be used to link their data from other TU websites to get up-to-date information from multiple sources on their page, so that readers know what these supervisors are about. Whether or not they are available for supervision can be confirmed by their department's secretariat, or by the supervisor themselves, it can also be estimated based on how long ago a thesis that has been supervised by them was uploaded to the repository.

## Privacy and what to do now that we can no longer force people to publish.

We can no longer force students to publish their thesis to the repository, but they are still required to archive their thesis, which means that they will have to go through the upload process anyway. This means that we need to encourage students to publish their work as much as possible. The reasons why someone might not want to publish their work is because of privacy concerns in the future, or because they're not proud of it.

The privacy concerns can be addressed by making it clear that after they've published their thesis, it will be easy for them to take it down again. A 'takedown request' button needs to be displayed on every thesis entry, and the fact that it's there needs to be told to the user at the end of the upload process. Another option is to allow the student to only have their thesis publicly available for a couple of years.

Students who are not proud of their work might not want everyone to be able to find their work, but they may feel like it's okay to share it with other TU students whom it might help with theirs. A choice must be given at the end of the upload process:

1. publish it for everyone.
2. publish it for everyone, but don't make it show up on search engines.
3. publish it only for TU students and personnel (who are logged in with a NetID).
4. don't publish it.

# Design considerations by page

## Homepage

Following the principals of modern webdesign, navigation is placed in the top bar. The search bar is very prominently displayed, as most people will want to start searching right away when they get to this page. People who scroll past the search bar will want to know what the website is about, or get to see interesting theses at a glance, which is why there's a short introduction below the 'hero image', and the featured thesis is prominently displayed. If the user wants to scroll further, they might want to see things more tailored to their specific tastes, which is why the [new/trending/top] in [faculty/programme/keyword] sections are there. The quick interaction of two dropdown menus gives the user enough freedom and specificity at this stage, as they still might be exploring and not knowing what they're looking for, but they can quickly select what they're interested in from a premade list.



image  
for preview



Featured Thesis:

larger titles

Automation of Repetitive Tasks in the Agricultural Sector

Master thesis by van der Meij, Emiel (2022)

TU Delft Electrical Engineering, Mathematics and Computer Science

Featured Thesis

Robotics

Automation

Agriculture

Inverse Kinematics

programme is important to include in the preview

blue text indicates clickable

Labour in the agricultural sector is in short supply, while a large portion of the work is still being done manually. To speed up the work and guarantee the food supply of the future, Lely has started a project on agricultural automation. The aim of the project is to create a robot that can perform multiple repetitive tasks simultaneously, to allow for a large portion of the weekly work to be auto

VIEW MORE

**Dropdown menus**

**LOIT(H)ER**  
Creating women's places of leisure in residential neighbourhoods  
Master thesis by Cioploiu, Oana (2022)  
TU Delft Architecture and the Built Environment; TU Delft Architecture  
Housing, Gender Sensitive Design, Social interactions  
ota, Loiter

Housing project located in Navi Mumbai, India, with a goal of social integration, and a gender-sensitive design approach. The main goal is to create places of loitering for fun and leisure for women of all income groups.

**The Middleground**  
Challenging Asymmetric Membranes  
Master thesis by Kok, Reinier (2022)  
TU Delft Architecture and the Built Environment  
Asymmetry, membrane, disparity, Deprivation, territory, assemblage

In the case of the 2017 Grenfell Tower, the fire affected those who were already socio-economically underprivileged. Many residents of the Grenfell tower did not just become homeless or lost personal belongings, approximately two-thirds suffer from post-traumatic stress. Such layered and systemic disparities in the built environment as well as their consequence are often obscure due to systems' co

collection of four theses, enough for something to catch the user's interest, not too much

**Real-Time Predictive Speed Control for Eco-Driving at Signalized Intersections Considering Queue Constraints**  
Master thesis by Schropp, Eline (2022)  
TU Delft Mechanical, Maritime and Materials Engineering  
Model predictive control, Optimal control, Eco-driving, Queuing

**Self-Healing Behavior in 12Cr Steels**  
Master thesis by Su, Yang (2022)  
TU Delft Aerospace Engineering  
Self-healing of creep-induced damage in newly designed 12Cr self-healing ferritic steels is studied. The damage healing is achieved by the segregation of supersaturated solute atoms at the free surface of the creep-induced cavities, and in this research, the healing phase is the W-riched Laves phase. Two kinds of self-healing steel with different precipitation driving forces of Laves phase are inv

## Thesis previews

The inclusion of a cover image is essential in grabbing attention and allowing the reader to decide if they're interested in a split-second. This is also the reason for the large blue titles. The keywords are shown in the form of rounded rectangles, this indicates that they could be interpreted as 'tags', and are likely clickable if you want to see more theses with this keyword. Prizes are also in this form, and are either purple for the featured thesis, gold, silver, or bronze. Report type, author, date, and programme are shown.

The description of the thesis should be a shortened version of the abstract, about 2 sentences long. I call this a 'pitch'. That way, the entirety of the summary can be shown concisely in a preview. These can be automatically generated for the older theses using artificial intelligence ( try it here <https://quillbot.com/summarize> ), and should be filled in during the upload process from now on.

**Simplified Madymo Seated Human Body Model for Motion Comfort Evaluation**  
Master thesis By Wu, Junda | Program: TU Delft Mechanical, Maritime and Materials Engineering; TU Delft Intelligent Vehicles | 2022  
2176 Views, 47 downloads, 10 bookmarks  
Madymo, multibody human model, human body response, vibration

[ Summarized by AI] People need to have a comfortable experience in vehicles nowadays. However, they are continuously exposed to vibrations from the vehicle. Madymo active human models (AHM) can be used for comfort analysis and to learn how vibrations influence the human body in several aspects. However, existing AHM are very time-consuming due to their complexity, and the correspondence with human comfort data is on

**Improve Mobile Payment Accessibility for People with Visual Impairment**  
an Inclusive Design Project with ING  
Master thesis By Fei, Yongqing | Program: TU Delft Industrial Design Engineering | 2022  
2176 Views, 47 downloads, 10 bookmarks  
Top 5 in 'Design for Interaction'  
Inclusive Design

This thesis takes an inclusive design approach to understand the mismatches between people with visual impairment (PVIs) and the current payment infrastructure in the Netherlands. The research applies existing Inclusive Design and general UX design methods to the context of payment to reveal latent user needs and co-design solutions. Design for Emotion and Interaction Design methods were used to h

## The bookmark system

The bookmark system allows users to save thesis entries to read them for later. It's important that this system is very unobtrusive, and can be used by people who haven't logged in as well. Bookmarks can be saved to cookies for users who are not logged in, and to both cookies and account data for logged in users.

The screenshot shows a search interface for academic theses. At the top, there is a search bar with a magnifying glass icon. Below it, a filter section includes dropdowns for 'Faculty/Program' (set to 'All'), checkboxes for 'Include reports under embargo and without PDF report', 'Master Theses' (checked), 'Bachelor Theses' (checked), 'Student Reports' (checked), and 'Supervisors'. There are also date filters 'From 2007' and 'To 2022'. A 'Sort By' dropdown is set to 'Relevance'. The main content area displays a thesis entry:

**Simplified Madymo Seated Human Body Model for Motion Comfort Evaluation**  
Master thesis By Wu, Junda | Program: TU Delft Mechanical, Maritime and Materials Engineering; TU Delft Intelligent Vehicles | 2022  
2176 Views, 47 downloads, 10 bookmarks

Tags: Madymo, multibody human model, human body response, vibration

A summary text is provided: [AI] Summarized by AI People need to have a comfortable experience in vehicles nowadays. However, they are continuously exposed to vibrations from the vehicle. Madymo active human models (AHM) can be used for comfort analysis and to learn how vibrations influence the human body in several aspects. However, existing AHM are very time-consuming due to their complexity, and the correspondence with human comfort data is on

A small floating button labeled 'bookmark' with a blue icon is visible on the right side of the thesis preview. A red callout box with the text 'a pop-up toast to confirm it's added to your bookmarks' points to this button. In the top right corner of the thesis preview, a dark box contains the text 'Added to bookmarks' with a white arrow pointing towards it.

## Search page

The two biggest changes from the old version here are quick, often used filters right under the search bar, the addition of an advanced search window, and the option for users to sort by relevance, trending, date, and total popularity. I've experimented with supervisor previews in the search results as well. If a supervisor has something to do with the search query, they could show up in the search results. Another important addition is the way of displaying the embargo state of a thesis in its preview, and how a thesis that's

Popular keywords must remain, can show people what to look for

Popular Keywords:

- design (403)
- Machine Learning (290)
- Sustainability (283)
- Amsterdam (261)
- sustainability (243)
- Design (231)
- Rotterdam (229)
- CFD (216)
- Architecture (213)

Sort By Relevance

Faculty/Program: All ✓ Include reports under embargo and without PDF report  
Master Theses ✓ Bachelor Theses ✓ Student Reports ✓ Supervisors  
From 2007 To 2022

ADVANCED SEARCH

Often used filters

sort direction dropdown menu

opens a window with many more search parameter options

Agda2Rust

A Study on an Alternative Backend for the Agda Compiler

Bachelor thesis By Peeters, Hector | Program: TU Delft Electrical Engineering, Mathematics and Computer Science; TU Delft Programming Languages | 2022

2176 Views, 47 downloads, 10 bookmarks

Code Extraction Dependent Types Agda Rust

Summarized by AI! Agda is a functional programming language with built-in support for dependent types. A dependent type depends on a value. This allows the developer to specify strict constraints for the types used in an application. Writing code with dependent types results in fewer type-related errors slipping through the compilation process.

Show when something is summarized by AI to explain possible errors in the summary

Possibly show available supervisors that have something to do with the search query in the results

Yahya Fitzgerald (supervisor)

Available for thesis supervision (confirmed May 2022 by secretariat)

Industrial Design Engineering - Human Centered Design

Keyword Keyword Keyword Keyword

SL

Guess or confirm supervision availability by time since last supervised thesis, or confirmation by secretariat, or supervisor themselves

Flora Le (supervisor)

Maybe available for thesis supervision (last supervised thesis: March 2022)

Industrial Design Engineering - Human Centered Design

Keyword Keyword Keyword Keyword

SL

Requires login to access

Learning-based control for pushing with a non-holonomic mobile robot

Master thesis By Potters, Susan | Program: TU Delft Mechanical, Maritime and Materials Engineering | 2022

2176 Views, 47 downloads, 10 bookmarks

Push Manipulation Learning-based Control Mobile Robot

Mobile robots are getting more common in warehouses, distribution centers and factories, where they are used to boost productivity. At the same time, they are moving into the everyday world, where they need to operate in unstructured environments. In order to extend the set of tasks that a robot can autonomously accomplish in such environments, we can equip mobile bases with a pushing

Greyed out thesis previews for people who do not want to publish their thesis to the world, but don't mind it being shared to other students

Analytical solution for the cumulative wake of yawed wind turbines

Report PDF not included (under embargo until November 2024)

Master thesis By Gaukroger, Nils | Program: TU Delft Aerospace Engineering | 2022

2176 Views, 47 downloads, 10 bookmarks

wake modelling wake steering wake superposition

This thesis sets out to improve the physical grounding and predictive accuracy of cumulative wake effect modelling within wind farms with yawed turbines. It derives an analytical solution for the lateral velocity field within a wind farm and compares its predictions to those of computational fluid dynamics.

Show embargo status in preview. many people are not interested in theses without PDFs

## Entry page

The goal of the entry page is to provide the reader with enough information for them to quickly assess quality and if they're interested, and to quickly gain understanding of the subject of the thesis; to encourage further reading and provide jumping-off points for them to learn more about the subject; and to inspire, and provide ways for the user to interact with the subject. The entry page must also cater to the users' specific needs, such as a quick download button for the 'targeted downloaders', in-depth information for the 'benchmarking students', supervisor profile cards for the 'exploring students', etc.. The entry page will contain viewers and widgets for all the content that the uploader has provided, such as images, audio files, videos, 3D models, downloadable files, related links, etc.

The screenshot shows a thesis entry page with the following components:

- Title:** System Design of LED-to-Rolling-Shutter-Camera Communication using Color Shift Keying.
- Image:** A photograph of a European street scene.
- Thesis Info:** Bachelor thesis By Durmus, Merdan | TU Delft Electrical Engineering, Mathematics and Computer Science | 2022.
- Badges:** Thesis of the year 2021, Top 5 in 'Design for Interaction', Trending in 'Circular Economy'.
- Buttons:** BOOKMARK, DOWNLOAD PDF, CITE, SHARE.
- Statistics:** 268 views | 160 downloads | 20 bookmarks | 0 citation | advanced statistics...
- Annotations:**
  - A red arrow points from the title to the text "Bigtitle, subtitle, and image".
  - A red arrow points from the image to the text "Graphic Abstract (/poster)".
  - A red arrow points from the badge area to the text "Related theses for exploring users".
  - A red arrow points from the abstract section to the text "summarizing elements, such as titles, images, posters, graphic abstracts etc on top of the page".
  - A red arrow points from the abstract text to the text "KIPINÄ, A design intervention to enhance employees' sense of belonging by stimulating informal social interaction."
  - A red arrow points from the abstract text to the "Circular Economy" section.
  - A red arrow points from the abstract text to the "A novel method to analyse MR pulmonary images based on the Phase-Resolved Functional Lung MRI (PREFUL) technique" section.
  - A red arrow points from the abstract text to the "Preference based decision support system for Waelwpolder" section.
- Related Theses:**
  - Life Cycle Assessment of Inflight Services and Measures to Reduce Their Carbon Footprint
  - Life Cycle Assessment - Aviation
  - Carbon footprint
  - Inflight services
  - Circular Economy
- Related Theses:**
  - A novel method to analyse MR pulmonary images based on the Phase-Resolved Functional Lung MRI (PREFUL) technique
  - Preference based decision support system for Waelwpolder
  - An a priori design optimization approach (PDDOA) as decision support system, applied to the urban development of Waelwpolder
  - Preference modeling
  - Optimization
  - Design management
  - Multi-stakeholder decision making
  - Feasibility and desirability integration
  - Decision support system
  - Genetic Algorithm
- Section Headers:** Keywords, Abstract, Circular Economy, A novel method to analyse MR pulmonary images based on the Phase-Resolved Functional Lung MRI (PREFUL) technique, Preference based decision support system for Waelwpolder.
- Text Annotations:**
  - Show abstract on hover
  - Many pulmonary diseases, such as cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD) or asthma are disrupting the lung perfusion/ventilation ratio. Therefore, monitoring it gives a good overview on the evolution of the disease. There are several imaging modalities to assess the ventilation and perfusion, but they either use ionizing radiation, are expensive, uncomfortable or pose the risk of allergic reactions. Fourier decomposition MRI is a radiation and contrast free technique to image the lungs that is also used while the patient can breathe freely. It is based on the separation of the ventilation and perfusion signals, according to their frequency. Built on top of this is the Phase-Resolved Functional Lung MRI (PREFUL) which allows for the reconstruction of the breathing and cardiac cycle based on the phases of the acquired signal. The present study analysed different methods to extract the phase, to obtain the ventilation and perfusion maps and to threshold and detect the defects. It was found that the methods based on sine fitting and Morlet wavelet are the most promising, with the latter having the advantages of a variable window size and frequency. The most promising threshold for perfusion is the 75th percentile \* 0.6 and for ventilation the 90th percentile \* 0.4. Despite not correlating very well with the established methods, PREFUL analysis could still be useful in comparing different patients and tracking the progress of lung diseases.

## Presentation



Embedded video

## Contributor profiles

### Author/supervisor cards

**Merdan Durmuş (author)**  
Industrial Design Engineering - Design for Interaction  
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Modi quos ipsa id, necessitatibus ab magni iusto cupiditate ex. Similique beatae iure repellendus odit quisquam iusto ab aut ducimus sapiente culpa.

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**Chanelle Castillo (supervisor)**  
Available for thesis supervision (confirmed May 2022 by secretariat)  
Industrial Design Engineering - Sustainable Design Engineering  
Keyword Keyword Keyword Keyword

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**Madeline Chambers (supervisor)**

Preview image, title, and description can be fetched from links

## Links

### My Graduation Project (title) - GitHub



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eveniet nam, quisquam iste architecto neque, aperiam ratione dolore reiciendis sapiente error corruptil Velit est suscipit accusamus maxime debitis? Velit, qui quaerat.

### Merdan Durmuş on GitHub



Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eveniet nam, quisquam iste architecto neque, aperiam ratione dolore reiciendis sapiente error corruptil Velit est suscipit accusamus maxime debitis? Velit, qui quaerat.

### Merdan Durmuş on LinkedIn

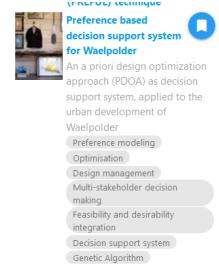


Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eveniet nam, quisquam iste architecto neque, aperiam ratione dolore reiciendis sapiente error corruptil Velit est suscipit accusamus maxime debitis? Velit, qui quaerat.

Downloadable files list for all associated files so readers can interact with the science that's already been done

## Downloadable files

- [Master\\_graduation\\_report\\_Ashley\\_Hemerik\\_4543629.pdf](#)  
Report  
59MB - Version 1 - 03-02-2023
- [Master\\_graduation\\_Ashley\\_Hemerik\\_4543629\\_Appendices.pdf](#)  
Appendices to the report  
59MB - Version 1 - 03-02-2023
- [Master\\_graduation\\_Ashley\\_Hemerik\\_4543629\\_Showcase\\_poster.pdf](#)  
Showcase poster  
59MB - Version 1 - 03-02-2023
- [MasterPresentation.mp4](#)  
Presentation video  
59MB - Version 1 - 03-02-2023



Advanced report statistics contains information like page count, outline, chapter page count, etc.

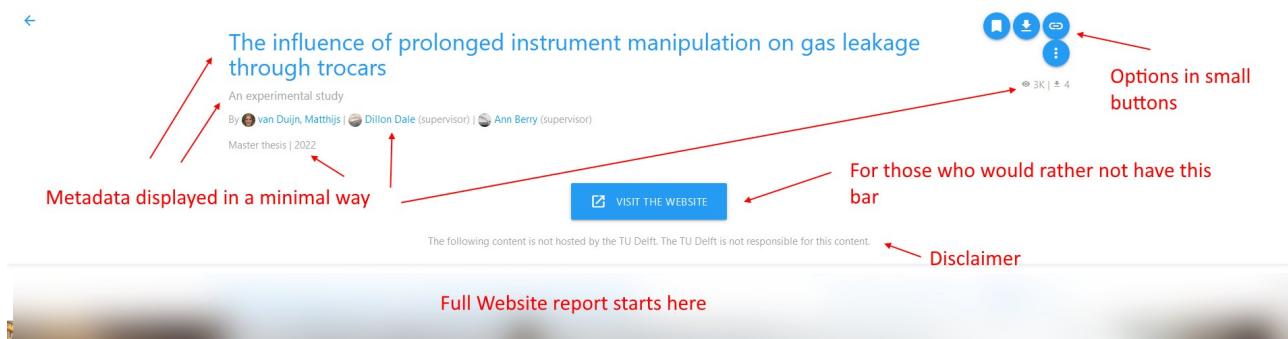
## Report PDF Full-width and height PDF previewer

The screenshot shows a PDF viewer interface with a sidebar containing a table of contents and a main content area displaying a presentation slide. The slide has a light blue background with the text 'Security of supply during the energy transition' in large, white, sans-serif font. The sidebar on the left lists sections such as Abstract, List of Figures, List of Tables, List of Abbreviations, Introduction, Dutch Electricity Market, Capacity Remuneration Mechanisms, Models, Future Dutch Electricity Mix, Simulations, Implementation of the Capacity Mechanisms, Results, and Conclusion.

## Full-website-report entry page

When using a website as a report, all the interactive and multimedia elements can be included into the report itself, which means that the front-end of the repository needs to do less work. It only needs to show its metadata and provide interactions such as 'download' and 'share' etc. The repository front-end should take a backseat here and be minimally invasive.

Full website reports should still have a zipped archive of all the websites assets available for download so people can still view the report in its (mostly) original fashion when it's no longer on a webserver.



# Supervisor profile page

Supervisors want to show off all the alumni they helped graduate, and their projects.

Exploring students want to find available supervisors who are experts in the fields they are interested in, so that they may approach them to be their supervisor for their projects.

The following elements might help these users.

Lana Young

TU Delft Architecture and the Built Environment; TU Delft History & Complexity; Rutte, Reinout

Available as supervisor?: last published supervised thesis: 09-11-2022

**About** Can be scraped from other TU sites

**Supervised programmes** Design for Interaction (10) Strategic Product Design (4) Integrated product Design (1)

**Keywords from supervised theses** Design (4) Materials (2) User Interaction (2) Stress Tests Keyword Keyword Keyword Keyword

**Links** Supervisornname Lastname in TU Delft Researchportal Supervisornname Lastname - Scopus Profile

**Faculty & department** TU Delft Architecture and the Built Environment; TU Delft History & Complexity; Rutte, Reinout

**Supervisor availability (again)**

**Similar Supervisor Profiles**

- Junaid Hewitt** IDE-Sustainable Design Engineering | Last supervised thesis: 08-2022   
Bollenstreek Bollenstreek Ontwikkeling
- Miah Buck** IDE-Sustainable Design Engineering | Last supervised thesis: 08-2022   
Intellectual monopoly education technology academic freedom knowledge generation
- Tallulah Spence** IDE-Sustainable Design Engineering | Last supervised thesis: 08-2022   
Quantum Error Correction Repetition Code Statistics
- Aron Schaefer** IDE-Sustainable Design Engineering | Last supervised thesis: 08-2022   
Testing Software testing EvoSuite Code Metrics

**Similar supervisor profiles (same department / research topics)**

## Fingerprint (from Researchportal)

Engineering & Materials Science

Feedback Simulators Stiffness Manual Control Automation Remote Control Acoustic Impedance Bandwidth Robots Torque Flight Envelopes Controllers Trajectories Experiments

Social Sciences

Driver RESEARCH OUTPUT (165) DATASETS (13) AWARDS (4) ACTIVITIES (1) PRES/MEDIA (?)

**Not always accurate, but could give a good impression**

## Supervised Theses

**De ontwikkeling van de bollenschuur** tussen 1850 en 1965  
TU Delft Technology, Policy and Management student report by Geerlings, Dex | 2022

Highlighted by supervisor

Bollenstreek Bollenstreek Ontwikkeling

Supervisor's note: Authorname did an amazing job highlighting X and Y in a visual manner and did a very deep dive into Z. Definitely worth a read!

**Supervisor highlight and comment can provide context and indication of quality for exploring students**

**Preventing intellectual (near-) monopoly in digital education by developing free space for education technology development**  
TU Delft Applied Sciences; TU Delft Electrical Engineering, Mathematics and Computer Science Master thesis by LIU, RUOBING | 2022

Intellectual monopoly education technology academic freedom knowledge generation

# Programme page

The master programme page should be a jumping off point for orienting students. It can show the topics that come up quite often in the 'often used keywords' field; show a list of supervisors that often supervise for students of this master; and show recent, trending, and popular thesis that have come from this masters programme.



## Design for Interaction

Faculty of Industrial Design Engineering

Over the past decades, the subjective meaning of products and services has steadily gained in importance in design processes. Increasingly, a deeper understanding of users, their lives, and aspirations, has become key for developing successful propositions. As a result, there is a growing need for designers who are expert at the user perspective of products and services, who understand the impact products have on people's lives, their experiences, motivation, and their behaviour.

Often used Keywords in Programme  
Design, UX Design, Interface, Experience Design

SEE MORE

Quick indication of what the programme does

Can provide jumping off points for orienting students

Supervisors that supervise for this master often

Available/Recent Prolific Supervisors

Mia Perez (supervisor)  
TU Delft Electrical Engineering, Mathematics and Computer Science  
Total DFI theses supervised: 41 | last year: 10  
Systemic Design, Urban Metabolism, Flooding, Water Pollution, Water Scarcity, the Lake Chao Basin

Mabel Crawford (supervisor)  
TU Delft Electrical Engineering, Mathematics and Computer Science  
Total DFI theses supervised: 41 | last year: 10  
JUICE, Ephemerides, GNC, Statistical Delta-V

Lucy Watts (supervisor)

Related Programmes  
**Strategic Product Design**  
Industrial Design Engineering, Design, Strategy, Business model canvas  
**Integrated Product Design**  
Industrial Design Engineering, Material Science, Production, Design

SEE MORE

New Theses

Efficient Memory Architecture for Next Generation Low-Power Embedded Systems  
By Mohapatra, Sourav  
Embedded Systems, Low power, memory

In this thesis we propose a novel memory architecture design that is robust to frequent memory failures targeting next generation low power embedded system. We explore the how the architecture works and perform detailed evaluations to show that our system achieves better performance than the state-of-the-art.

To Err Is All! Debugging as an Intervention to Facilitate Appropriate Reliance on AI Systems  
By Bharos, Abri  
explanation-based human debugging, appropriate reliance, human-ai collaboration, crowd computation

massive number of wireless IoT sensors with chemical batteries become more and more unpractical. To make the IoT sensors self-sustained, Piezoelectric Energy Harvesting (PEH) technology provides an excellent solution to power the devices with a relatively long service time. By harvesting the ambient mechanical vibrati

Recent Graduates

Wang, Jiaqi  
Graduated on 02-03-2023  
Master Graduation Thesis: Thesis Title - thesis subtitle  
treefalls, resilience, stress factors, below- & above-ground, Storm Eunice  
Amsterdam

Hener, Jonas  
Graduated on 02-03-2023  
Master Graduation Thesis: Live with Water

Bacevičius, Vidas  
Graduated on 02-03-2023  
Master Graduation Thesis: JUICE

SIACHOS, KONSTANTINOS  
Graduated on 02-03-2023  
Master Graduation Thesis: Analysing the Impact of Inline Comments for the Task of Code Captioning  
Traffic safety, Vehicle sensor data, Delphi study

useful for orienting students.

Trending Theses

Load Cycle Assessment for Maritime Batteries with Diverse Operational Profile  
By RAMESH, ARAVIND RAMESH  
Batteries, Ship Power

Increasing emissions have led to the search for alternate power systems to provide energy for maritime applications. The recent drop in battery prices (over 200 % in the last ten years) has made battery energy storage one of the practical alternatives for fossil fuels to curb emissions and reduce the carbon footprint of the maritime sector. The main criterion for choosing a ship's battery system i

SEE MORE

Recent graduates for interested headhunters, or seeing your friends here

SEE MORE

## Keyword page

The keyword page is for people who are interested in a certain topic. It should show other theses with this topic, related keywords, and available supervisors who have experience with this topic.

For finding more appropriate or more used keywords

searching by topic is treated more like a search query

Available supervisors with experience in the topic

The screenshot shows a search results page for the keyword 'Additive Manufacturing'. At the top left is a large title 'Additive Manufacturing'. Below it is a 'Sort By' dropdown set to 'Relevance'. The first result is a thesis titled 'The academic changemaker' by Buwalda, Joran, from TU Delft Applied Sciences in 2022. It has 2176 views, 47 downloads, and 10 bookmarks. The abstract discusses transdisciplinary research in climate and energy. The second result is a thesis titled 'The Integration of Electric Vehicle Chargers Into a Trolleygrid Network' by van der Horst, Koen, from TU Delft Electrical Engineering, Mathematics and Computer Science in 2022. It has 2176 views, 47 downloads, and 10 bookmarks. The abstract discusses battery electric vehicles and trolleygrids. To the right of the results is a sidebar titled 'Related Keywords' with terms like 3D Printing, Material Science, Modelling, and Tooling. Below that is a section titled 'Recent Supervisors' featuring profiles for Dillon Dale, Ashleigh Ramsey, Kirsten Gordon, and Dylan Palmer, each with their program (IDE-Sustainable Design Engineering), research interests (e.g., Additive Manufacturing, 3D Modelling, Thermodynamics), and a 'SEE MORE' link.

## Upload page

The new upload page removes options that uploaders can't or shouldn't change anyway, and preloads the correct answer in the ones where it can guess the right one (If your NetID says your master is in DFI, it can preload DFI in the study programme field). It also has more help and explanation of the input fields, and the process behind the screens, which should alleviate a lot of anxiety in the uploaders. A lot of drag and drop upload fields have been added, which signal file support, and encourages users to upload different project files they already have on their harddrive.

## Upload your Masters Thesis

### Metadata

Original Language of the Thesis \* ?  
English

Thesis Title (in its original language) \* ?  
blabla

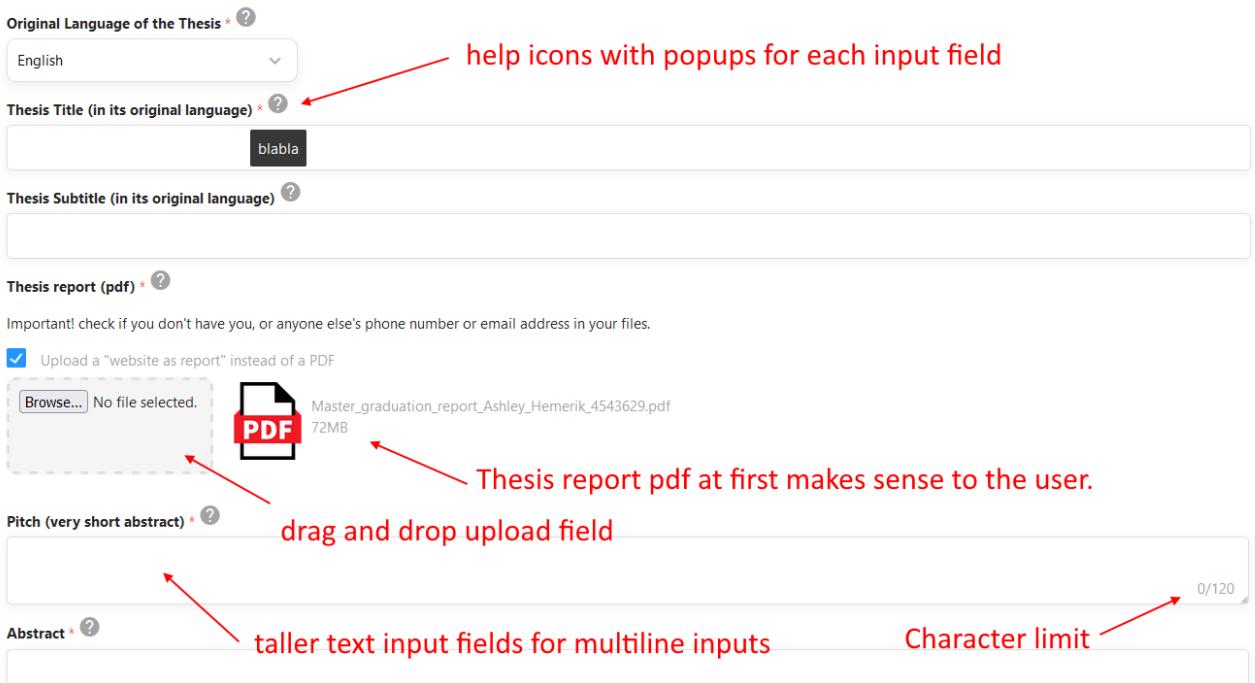
Thesis Subtitle (in its original language) ?

Thesis report (pdf) \* ?  
Important! check if you don't have you, or anyone else's phone number or email address in your files.  
 Upload a "website as report" instead of a PDF  
Browse... No file selected.  Master\_graduation\_report\_Ashley\_Hemerik\_4543629.pdf 72MB

Pitch (very short abstract) \* ?  
drag and drop upload field

Abstract \* ?  
taller text input fields for multiline inputs

Character limit 0/120



## Contributors

Author(s) *	Supervisor(s) (persons or organisations) *	Sponsors (external organisations)
 Yourname Lastname Industrial Design Engineering  <a href="#">ADD ANOTHER AUTHOR</a>	<input type="text" value="Name"/> <input type="text" value="Role"/> <ul style="list-style-type: none"> <li><a href="#">Chair</a></li> <li><a href="#">Supervisor</a></li> <li><a href="#">Graduation Committee</a></li> </ul>	<a href="#">ADD EXTERNAL ORGANISATION</a>

**Image should load when the supervisor is found in the system**

## Award Information

Date of (the awarding of) your graduation \* ?

dd / mm / yyyy

Use graphical abstract / poster image

## Files

Important! check if you don't have you, or anyone else's phone number or email address in your files.

<b>Additional PDFs (.pdf) *</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.	<b>Images (.jpeg, .gif, .png, .apng, .svg, .bmp) *</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.
<b>Videos (.mp4, .ogg, .webm) *</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.	<b>3D Models (.obj, .cad, .fbx, ) *</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.
<b>Audio Files (.mp3, .wav, .ogg) *</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.	<b>iFrames and Embeds</b> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">           Embed <input type="button" value="preview"/>    <pre>&lt;div class="sketchfab-embed-wrapper"&gt;&lt;iframe height="150px" width="100%" title="Gearbox (Propeller Turbine)" frameborder="0" allowfullscreen mozallowfullscreen="true" webkitallowfullscreen="true" allow="autoplay; fullscreen; xr-spatial-tracking" xr-spatial-tracking execution-while-out-of-viewport&gt;&lt;/iframe&gt;&lt;/div&gt;</pre> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">           Paste embed data here         </div> <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;">           Location <input type="text"/>   </div>
<b>Zip Archives</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.	
<b>Bibliography (.bib, .ris, .xml) *</b> <input type="text" value="Drop files here"/> <input type="button" value="Browse..."/> No file selected.	
<b>Others</b> <input type="text" value="Drop files here"/>	

**Many different upload fields for different filetypes suggest support, and encourages the uploading of files that the student has on their harddrive anyway**

**copy-paste Embed / iFrame data**

File	Title	Description	Advanced Embargo/Privacy	
 Master_graduation_report_Ashley_Hemerik_4543629.pdf 71MB	Master_graduation_report_Ashley_Hemerik_4543629.pdf	The Report	<a href="#">ADVANCED SETTINGS</a>	X
 Master_graduation_Ashley_Hemerik_4543629_Showcase_poster.jpg 12MB	Poster Showcase	Poster Showcase	<a href="#">ADVANCED SETTINGS</a>	X
 MasterPresentation.mp4 89MB	MasterPresentation.mp4	Presentation Recording	<a href="#">ADVANCED SETTINGS</a>	X

#### Thesis Links



Advanced settings show options for embargo per-file, and privacy settings per-file

Add any links that are relevant to your thesis, such as a link to a github page, or website of an organisation.

You can also add your personal portfolio, linkedIn, or GitHub page. We recommend that you set a maximum amount of time for these types of links, as they may not be relevant in a few years when you're done looking for jobs.

Same strategy for links, automatically fetch titles and descriptions

URL	Title	Description	Preview	Advanced Settings
<a href="https://ashleyhemerik.nl/">https://ashleyhemerik.nl/</a>	Ashley Hemerik, Portfolio	Ashley Hemerik is a UI/UX designer following the master 'Design for Interaction' at the faculty for Industrial Design Engineering at the TU Delft.		<b>Ashley Hemerik, Portfolio</b> Ashley Hemerik is a UI/UX designer following the master 'Design for Interaction' at the faculty for Industrial Design Engineering at the TU Delft. <a href="#">ADVANCED SETTINGS</a>

How long do you want your thesis and profile to be publicly available? (searchable by google, etc.) \*

Viewers

Options for privacy for students  
hesitant to publish

Findable on public search engines (i.e. google, or duckduckgo) ?

Thesis Entry

Profile

Indefinitely

Hide my thesis

1 year

3 years

10 years

Indefinitely (you can always submit a takedown request)

Public (not logged in)

Indefinitely

Students and TU personell (logged in via NetID)

Indefinitely

CHECK ENTRY PREVIEW & SAVE DRAFT

 SAVE AS DRAFT

 UPLOAD AND PUBLISH THESIS

When you hit upload, your entry will be sent to the editorial staff for checking. They will go over your upload entry and PDF to check if there are no emails or phone numbers in your file for privacy reasons, and if you've filled the metadata in correctly.

Clear explanation of the process reduces anxiety

After uploading, you can always see a 'takedown request' button in the footer of the repository, or you could send an email to the editorial staff if you want something changed or deleted.

This image from the UK Home Office shows nicely how to design for users with anxiety



Home Office



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[ukhomeoffice.github.io/accessibility-posters/posters/accessibility-posters.pdf](https://ukhomeoffice.github.io/accessibility-posters/posters/accessibility-posters.pdf)