A lightning start to a dissertations

or an approach from multiple fields

Your First Names Lastname

Science is a wonderful thing
if one does not have to earn one's living at it.

Albert Einstein

SIKS Dissertation Series No. XXX
The research reported in this thesis has been carried out under the auspices of SIKS, the Dutch Research School for Information and Knowledge Systems.

ISBN:	000-00-0000-000-0
Printed by:	Johannes Gutenberg
Cover by:	Beautiful preliminary cover sketch by Talia
Digital version:	available at `https://dspace.library.uu.nl/`.

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A lightning start to a dissertations

or an approach from multiple fields

Een snelle start van je PhD manuscript

of een benadering vanuit meerdere hoeken

(met een samenvatting in het Nederlands)

ter verkrijging van de graad van doctor aan de Universiteit Utrecht
op gezag van de rector magnificus, prof.dr. H.R.B.M. Kummeling,
ingevolge het besluit van het college voor promoties
in het openbaar te verdedigen
op woensdag DD mmmmm YYYY des ochtends te UU.UU uur

door

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geboren op DD month YYYY te CITY

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This work was supported by the research project *A Very Important Project* (MAVIP), which was financed by the Some Important Scientific Research Organisation under grant number 011.235.813 and supported by the stakeholder Important Stakeholder™.

Contents

Acronyms

EU European Union

Preface

While the scientific content of the presented work is complete, the formatting of its presentation is still under development. So please forgive me the ill considered placement of figures or general layout, this will be tackled in the future.

Your First Names Lastname
Utrecht, December 2023

Part I

Introduction title on the chapter titlepage

You're only given a little spark of madness, and if you lose that... you're nothing.

Robin Williams

Plain Language Summary

This thesis describes the design, application and evaluation of metrics and measures aimed to support stakeholders to achieve something awesome.

We show off some cool findings, like the specifc method we used.

Several new techniques have also been explored. This meant that we could provide more in-depth insight where it was needed.

Contents

1

Introduction

This is a introduction chapter explaining the scientific and technical questions that are currently unsolved.

This line is merely intended to use as a reference to some acronyms used in the main text like European Union (EU) and when used again EU.

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1.1. Some context

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Part II

Properties of a dissertation class

If you like quotes..
this might be a way to go.

Laurens P. Stoop

Plain Language Summary

This thesis describes the design, application and evaluation of metrics and measures aimed to support the integration of Energy & Climate modelling. aimed to capture relevant aspects of the weather and claimte f. Several new measurement techniques are presented as well as an Application-Specific Integrated Circuit (ASIC) designed for accurate measurement of flow velocity with matrix transducers.

The influence of circuit topologies on the zero-flow performance of ultrasonic flow meters has been analyzed and an algorithm is presented to reduce the offset. With a linear transducer array, flow measurements have been performed via two different acoustic paths, demonstrating the ability to accurately measure flow with array transducers through a stainless-steel pipe wall. In order to improve signal quality, an ASIC has been designed that is able to drive and read-out 96 piezo transducer elements. The ASIC has been characterized electrically and flow measurements have been performed in combination with the linear transducer arrays.

Several new techniques, enabled using transducer arrays, have also been explored. By tapering the amplitude of the transmit signals, spurious waves can be suppressed. An auto-calibration technique has been developed that uses additional acoustic measurements to estimate the diameter of the pipe and the speed of sound in the pipe wall and liquid. Finally, a simulation study has been performed to explore the possibility of exploiting the beam-steering capabilities of transducer arrays to measure flow velocity profiles by using measurements obtained via multiple acoustic paths.

1

Contents

2

Dissertation class description

Everything is possible, the impossible might take two days.

Family motto

Plain Language Summary

In this chapter the properties of the dissertation class are described.

The contents of this chapter are under review at A FANCY JOURNAL, for which a preprint is available on arXiv [1].

This document is intended to be both an example of the Utrecht University dissertation template for LaTeX, as well as a short introduction to its use. It is not intended to be a general introduction to LaTeX itself,[1] and we will assume the reader to be familiar with the basics of creating and compiling documents.

Instructions on how to use this template under Windows and Linux, and which LaTeX packages are required, can be found in `README.txt`.

2.1. Document Structure

Since a dissertation is a substantial document, it is convenient to break it up into smaller pieces. In this template we therefore give every chapter its own file. The chapters (and appendices) are gathered together in `main.tex`, which is the master file describing the overall structure of the document. `main.tex` starts with the line

```
\documentclass{dissertation}
```

which loads the dissertation template. The template is based on the LaTeX `book` document class and stored in `dissertation.cls`. The document class accepts several comma-separated options. By default, hyperlinks are shown in black, but this can be changed. Which is convenient when reading the dissertation on a computer, but can be expensive when printing.

these options don't work atm They can be turned black with the `print` option. This will also turn the headers dark gray instead of cyan. Moreover, it will add a 3 mm bleed around the page including crop marks. This will help the printer with the thumb indices, since they run right up to the page borders. Finally, the `nativefonts` option can be used to override the automatic font selection (see below).

A dissertation is a big document, which makes it easy to miss warnings about the layout in the LaTeX output. In order to locate problem areas, add the `draft` option to the `\documentclass` line. This will display a vertical bar in the margins next to the paragraphs that require attention.

The contents of the dissertation are included between the `\begin{document}` and `\end{document}` commands, and split into three parts by

1. `\frontmatter`, which uses Roman numerals for the page numbers and is used for the title page and the table of contents;
2. `\mainmatter`, which uses Arabic numerals for the page numbers and is the style for the chapters;
3. `\appendix`, which uses letters for the chapter numbers, starting with 'A'.

The title page is defined in `title.tex` in the `title` folder and included verbatim with `\include{title/title}`,[2] (see below). Additionally, it is possible to include a preface, containing, for example, the acknowledgements. An example can be found in `preface.tex`. The table of contents is generated automatically with the `\tableofcontents` command.

[1] We recommend `http://en.wikibooks.org/wiki/LaTeX` as a reference and a starting point for new users.
[2] Note that it is not necessary to specify the file extension.

Chapters are included after `\mainmatter` and appendices after `\appendix`. For example, `\include{chapter-1/chapter-1}` includes `chapter-1.tex`, which contains this introduction.

2.2. Title Page

The title pages are defined in `title/title.tex`, which you will have to modify according to your needs. Note that these pages are subject to the requirements of the *promotieregelement* and cannot be changed at will. Apart from the names and dates, most of the Dutch text is dictated literally.

Since the thesis title and name of the author appear several times throughout the document (on the title page, but also in, *e.g.*, the preface and cv), special commands are provided so they only have to be specified once. The title (and optional subtitle) can be specified with

```
\title[Optional subtitle]{Title}
```

The name of the author is specified with

```
\author{First name}{Last name}
```

Note that the first and last name are separate arguments, since they may be printed in different font shapes. The `\title` and `\author` commands also ensure that the title and author appear in the metadata of the final PDF.

See `title/title.tex` for detailed documentation on the comment and layout of the title pages. Logos of institutes that have contributed financially to the dissertation may be included on reverse side of the title page. A few example logos can be found in the `title/logos` folder.

2.3. Chapters

Each chapter has its own file. For example, the LaTeX source of this chapter can be found in `chapter-1.tex`. A chapter starts with the command

```
\chapter{Chapter title}
```

This starts a new page, prints the chapter number and title and adds a link in the table of contents. If the title is very long, it may be desirable to use a shorter version in the page headers and the table of contents. This can be achieved by specifying the short title in brackets:

```
\chapter[Short title]{Very long title with many words which could
not possibly fit on one line}
```

Unnumbered chapters, such as the preface, can be created with `\chapter*{Chapter title}`. Such a chapter will not show up in the table of contents or in the page header. To create a table of contents entry anyway, add

```
\addcontentsline{toc}{chapter}{Chapter title}
```

after the `\chapter` command. To print the chapter title in the page header, add

```
\setheader{Chapter title}
```

If (parts of) the chapter have already been published elsewhere, it is customary to add a reference. This can be done with the special unnumbered footnote command `\blfootnote`. For example,

```
\blfootnote{Parts of this chapter have been published in Annalen
der Physik \textbf{324}, 289 (1906) \cite {Einstein1906}.}
```

generates the footnote at the beginning of this chapter. Because this footnote is unnumbered, the `hyperref` package may throw a warning, which safely be ignored.

If multiple people have contributed significantly to this chapter, they can be lister with the `\authors` command. This can be followed by a quotation using `\epigraph` as shown above. Finally, it is customary for a dissertation to include an abstract for every chapter (except perhaps the introduction). This can be accomplished with the `abstract` environment. The abstract should be followed by `\newpage` to start the chapter text on a new page.

In a dissertation, each chapter has its own list of references. These can be generated with the special command `\references{dissertation}` from `dissertation.bib` at the end of the chapter. Note that this means that you need to run a command like `bibtex chapter-1/chapter-1` for each chapter. The bibliography style is specified in `dissertation.bst`, which is a modified version of `apsrev4-1.bst` (from REVTeX) designed to also display the titles of referenced articles. The template will automatically generate clickable hyperlinks if a URL or DOI (digital object identifier) is present for the reference. Although it is possible to manage the bibliography by hand, we recommend using EndNote (available from Blackboard) or JabRef (available from `http://jabref.sourceforge.net/`).

Chapters are subdivided into sections, subsections, subsubsections, and, optionally, paragraphs and subparagraphs. All can have a title, but only sections and subsections are numbered. As with chapters, the numbering can be turned off by using `\section*{...}` instead of `\section{...}`, and similarly for the subsection.

2.4. \section{...}

2.4.1. \subsection{...}

\subsubsection{...}

\paragraph{...} Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

2.5. Fonts and Colours

needs to be updated

The fonts used by this template depend on which version of LaTeX you use. Regular LaTeX, *i.e.*, if you compile your document with with `latex`, `pslatex` or `pdflatex`, will use Utopia for text, Fourier for math and Latin Modern for sans-serif and monospaced text. However, if you want to adhere to the TU Delft house style, you will need to use XeLaTeX, as it supports TrueType and OpenType fonts. Compiling with `xelatex` will use Bookman Old Style for titles, Tahoma for text, Courier New for monospace and Cambria for math. If you want to use XeLaTeX, but do not want to use the TU Delft house style fonts, you can add the `nativefonts` option to the document class.

This template supports the use of drop caps, a large colored initial at the beginning of a chapter or section, via the `\dropcap` command:

```
\dropcap{L}{orem} ipsum...
```

The first argument is the capital that will be printed on two lines (in the title color), and the second argument is the rest of the word. Depending on the font, the latter may be printed in small caps.

The corporate colors of the Utrecht University are red, black and yellow, available, respectively, via `\color{uu-red}`, `\color{uu-black}` (which differs slightly from the default `black`) and `\color{uu-yellow}`. Apart from these three, the house style defines the basic colors

- `uu-creme`,
- `uu-orange`,
- `uu-bordeaux`,
- `uu-brown`,
- `uu-green`,
- `uu-blue`,
- `uu-darkblue` and
- `uu-purple`

Part III

Concluding Remarks

If you like quotes..
this might be a way to go.

Laurens P. Stoop

Plain Language Summary

Contents

3

Conclusion

This is a concluding chapter explaining the scientific and technical implications for society of the research findings in considerable detail.

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3.1. Some context

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Part IV

Appendies

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References

1. Einstein, A. Eine neue Bestimmung der Moleküldimensionen. *Annalen der Physik* **324,** 289–306. http://dx.doi.org/10.1002/andp.19063240204 (1906).

A

addition to chapter x

Some profound addition

Part V

Backmatter

A good manuscript is a submitted manuscript. A great manuscript is a published manuscript. A perfect manuscript is neither.

Shit Academics Say

Contents

B

Nederlandse samenvatting

Samenvatting in het Nederlands...

C

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05 Hugo Huurdeman (UVA), Supporting the Complex Dynamics of the Information Seeking Process
06 Dan Ionita (UT), Model-Driven Information Security Risk Assessment of Socio-Technical Systems
07 Jieting Luo (UU), A formal account of opportunism in multi-agent systems
08 Rick Smetsers (RUN), Advances in Model Learning for Software Systems
09 Xu Xie (TUD), Data Assimilation in Discrete Event Simulations
10 Julienka Mollee (VUA), Moving forward: supporting physical activity behavior change through intelligent technology
11 Mahdi Sargolzaei (UVA), Enabling Framework for Service-oriented Collaborative Networks
12 Xixi Lu (TUE), Using behavioral context in process mining
13 Seyed Amin Tabatabaei (VUA), Computing a Sustainable Future
14 Bart Joosten (UVT), Detecting Social Signals with Spatiotemporal Gabor Filters
15 Naser Davarzani (UM), Biomarker discovery in heart failure
16 Jaebok Kim (UT), Automatic recognition of engagement and emotion in a group of children
17 Jianpeng Zhang (TUE), On Graph Sample Clustering

18 Henriette Nakad (UL), De Notaris en Private Rechtspraak
19 Minh Duc Pham (VUA), Emergent relational schemas for RDF
20 Manxia Liu (RUN), Time and Bayesian Networks
21 Aad Slootmaker (OUN), EMERGO: a generic platform for authoring and playing scenario-based serious games
22 Eric Fernandes de Mello Araújo (VUA), Contagious: Modeling the Spread of Behaviours, Perceptions and Emotions in Social Networks
23 Kim Schouten (EUR), Semantics-driven Aspect-Based Sentiment Analysis
24 Jered Vroon (UT), Responsive Social Positioning Behaviour for Semi-Autonomous Telepresence Robots
25 Riste Gligorov (VUA), Serious Games in Audio-Visual Collections
26 Roelof Anne Jelle de Vries (UT),Theory-Based and Tailor-Made: Motivational Messages for Behavior Change Technology
27 Maikel Leemans (TUE), Hierarchical Process Mining for Scalable Software Analysis
28 Christian Willemse (UT), Social Touch Technologies: How they feel and how they make you feel
29 Yu Gu (UVT), Emotion Recognition from Mandarin Speech
30 Wouter Beek, The "K" in "semantic web" stands for "knowledge": scaling semantics to the web

2019

2019 01 Rob van Eijk (UL),Web privacy measurement in real-time bidding systems. A graph-based approach to RTB system classification
02 Emmanuelle Beauxis Aussalet (CWI, UU), Statistics and Visualizations for Assessing Class Size Uncertainty
03 Eduardo Gonzalez Lopez de Murillas (TUE), Process Mining on Databases: Extracting Event Data from Real Life Data Sources
04 Ridho Rahmadi (RUN), Finding stable causal structures from clinical data
05 Sebastiaan van Zelst (TUE), Process Mining with Streaming Data
06 Chris Dijkshoorn (VU), Nichesourcing for Improving Access to Linked Cultural Heritage Datasets
07 Soude Fazeli (TUD), Recommender Systems in Social Learning Platforms
08 Frits de Nijs (TUD), Resource-constrained Multi-agent Markov Decision Processes
09 Fahimeh Alizadeh Moghaddam (UVA), Self-adaptation for energy efficiency in software systems
10 Qing Chuan Ye (EUR), Multi-objective Optimization Methods for Allocation and Prediction
11 Yue Zhao (TUD), Learning Analytics Technology to Understand Learner Behavioral Engagement in MOOCs
12 Jacqueline Heinerman (VU), Better Together
13 Guanliang Chen (TUD), MOOC Analytics: Learner Modeling and Content Generation
14 Daniel Davis (TUD), Large-Scale Learning Analytics: Modeling Learner Behavior & Improving Learning Outcomes in Massive Open Online Courses
15 Erwin Walraven (TUD), Planning under Uncertainty in Constrained and Partially Observable Environments
16 Guangming Li (TUE), Process Mining based on Object-Centric Behavioral Constraint (OCBC) Models
17 Ali Hurriyetoglu (RUN),Extracting actionable information from microtexts
18 Gerard Wagenaar (UU), Artefacts in Agile Team Communication

19 Vincent Koeman (TUD), Tools for Developing Cognitive Agents
20 Chide Groenouwe (UU), Fostering technically augmented human collective intelligence
21 Cong Liu (TUE), Software Data Analytics: Architectural Model Discovery and Design Pattern Detection
22 Martin van den Berg (VU),Improving IT Decisions with Enterprise Architecture
23 Qin Liu (TUD), Intelligent Control Systems: Learning, Interpreting, Verification
24 Anca Dumitrache (VU), Truth in Disagreement - Crowdsourcing Labeled Data for Natural Language Processing
25 Emiel van Miltenburg (VU), Pragmatic factors in (automatic) image description
26 Prince Singh (UT), An Integration Platform for Synchromodal Transport
27 Alessandra Antonaci (OUN), The Gamification Design Process applied to (Massive) Open Online Courses
28 Esther Kuindersma (UL), Cleared for take-off: Game-based learning to prepare airline pilots for critical situations
29 Daniel Formolo (VU), Using virtual agents for simulation and training of social skills in safety-critical circumstances
30 Vahid Yazdanpanah (UT), Multiagent Industrial Symbiosis Systems
31 Milan Jelisavcic (VU), Alive and Kicking: Baby Steps in Robotics
32 Chiara Sironi (UM), Monte-Carlo Tree Search for Artificial General Intelligence in Games
33 Anil Yaman (TUE), Evolution of Biologically Inspired Learning in Artificial Neural Networks
34 Negar Ahmadi (TUE), EEG Microstate and Functional Brain Network Features for Classification of Epilepsy and PNES
35 Lisa Facey-Shaw (OUN), Gamification with digital badges in learning programming
36 Kevin Ackermans (OUN), Designing Video-Enhanced Rubrics to Master Complex Skills
37 Jian Fang (TUD), Database Acceleration on FPGAs
38 Akos Kadar (OUN), Learning visually grounded and multilingual representations

2020

2020 01 Armon Toubman (UL), Calculated Moves: Generating Air Combat Behaviour
02 Marcos de Paula Bueno (UL), Unraveling Temporal Processes using Probabilistic Graphical Models
03 Mostafa Deghani (UvA), Learning with Imperfect Supervision for Language Understanding
04 Maarten van Gompel (RUN), Context as Linguistic Bridges
05 Yulong Pei (TUE), On local and global structure mining
06 Preethu Rose Anish (UT), Stimulation Architectural Thinking during Requirements Elicitation - An Approach and Tool Support
07 Wim van der Vegt (OUN), Towards a software architecture for reusable game components
08 Ali Mirsoleimani (UL),Structured Parallel Programming for Monte Carlo Tree Search
09 Myriam Traub (UU), Measuring Tool Bias and Improving Data Quality for Digital Humanities Research
10 Alifah Syamsiyah (TUE), In-database Preprocessing for Process Mining
11 Sepideh Mesbah (TUD), Semantic-Enhanced Training Data AugmentationMethods for Long-Tail Entity Recognition Models
12 Ward van Breda (VU), Predictive Modeling in E-Mental Health: Exploring Applicability in Personalised Depression Treatment

13 Marco Virgolin (CWI), Design and Application of Gene-pool Optimal Mixing Evolutionary Algorithms for Genetic Programming
14 Mark Raasveldt (CWI/UL), Integrating Analytics with Relational Databases
15 Konstantinos Georgiadis (OUN), Smart CAT: Machine Learning for Configurable Assessments in Serious Games
16 Ilona Wilmont (RUN), Cognitive Aspects of Conceptual Modelling
17 Daniele Di Mitri (OUN), The Multimodal Tutor: Adaptive Feedback from Multimodal Experiences
18 Georgios Methenitis (TUD), Agent Interactions & Mechanisms in Markets with Uncertainties: Electricity Markets in Renewable Energy Systems
19 Guido van Capelleveen (UT), Industrial Symbiosis Recommender Systems
20 Albert Hankel (VU), Embedding Green ICT Maturity in Organisations
21 Karine da Silva Miras de Araujo (VU), Where is the robot?: Life as it could be
22 Maryam Masoud Khamis (RUN), Understanding complex systems implementation through a modeling approach: the case of e-government in Zanzibar
23 Rianne Conijn (UT), The Keys to Writing: A writing analytics approach to studying writing processes using keystroke logging
24 Lenin da Nóbrega Medeiros (VUA/RUN), How are you feeling, human? Towards emotionally supportive chatbots
25 Xin Du (TUE), The Uncertainty in Exceptional Model Mining
26 Krzysztof Leszek Sadowski (UU), GAMBIT: Genetic Algorithm for Model-Based mixed-Integer opTimization
27 Ekaterina Muravyeva (TUD), Personal data and informed consent in an educational context
28 Bibeg Limbu (TUD), Multimodal interaction for deliberate practice: Training complex skills with augmented reality
29 Ioan Gabriel Bucur (RUN), Being Bayesian about Causal Inference
30 Bob Zadok Blok (UL), Creatief, Creatieve, Creatiefst
31 Gongjin Lan (VU), Learning better – From Baby to Better
32 Jason Rhuggenaath (TUE), Revenue management in online markets: pricing and online advertising
33 Rick Gilsing (TUE), Supporting service-dominant business model evaluation in the context of business model innovation
34 Anna Bon (MU), Intervention or Collaboration? Redesigning Information and Communication Technologies for Development
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2021

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04 Ioana Jivet (OU), The Dashboard That Loved Me: Designing adaptive learning analytics for self-regulated learning
05 Davide Dell'Anna (UU), Data-Driven Supervision of Autonomous Systems
06 Daniel Davison (UT), "Hey robot, what do you think?" How children learn with a social robot
07 Armel Lefebvre (UU), Research data management for open science

08 Nardie Fanchamps (OU), The Influence of Sense-Reason-Act Programming on Computational Thinking
09 Cristina Zaga (UT), The Design of Robothings. Non-Anthropomorphic and Non-Verbal Robots to Promote Children's Collaboration Through Play
10 Quinten Meertens (UvA), Misclassification Bias in Statistical Learning
11 Anne van Rossum (UL), Nonparametric Bayesian Methods in Robotic Vision
12 Lei Pi (UL), External Knowledge Absorption in Chinese SMEs
13 Bob R. Schadenberg (UT), Robots for Autistic Children: Understanding and Facilitating Predictability for Engagement in Learning
14 Negin Samaeemofrad (UL), Business Incubators: The Impact of Their Support
15 Onat Ege Adali (TU/e), Transformation of Value Propositions into Resource Re-Configurations through the Business Services Paradigm
16 Esam A. H. Ghaleb (UM), Bimodal emotion recognition from audio-visual cues
17 Dario Dotti (UM), Human Behavior Understanding from motion and bodily cues using deep neural networks
18 Remi Wieten (UU), Bridging the Gap Between Informal Sense-Making Tools and Formal Systems - Facilitating the Construction of Bayesian Networks and Argumentation Frameworks
19 Roberto Verdecchia (VU), Architectural Technical Debt: Identification and Management
20 Masoud Mansoury (TU/e), Understanding and Mitigating Multi-Sided Exposure Bias in Recommender Systems
21 Pedro Thiago Timbó Holanda (CWI), Progressive Indexes
22 Sihang Qiu (TUD), Conversational Crowdsourcing
23 Hugo Manuel Proença (LIACS), Robust rules for prediction and description
24 Kaijie Zhu (TUE), On Efficient Temporal Subgraph Query Processing
25 Eoin Martino Grua (VUA), The Future of E-Health is Mobile: Combining AI and Self-Adaptation to Create Adaptive E-Health Mobile Applications
26 Benno Kruit (CWI & VUA), Reading the Grid: Extending Knowledge Bases from Human-readable Tables
27 Jelte van Waterschoot (UT), Personalized and Personal Conversations: Designing Agents Who Want to Connect With You
28 Christoph Selig (UL), Understanding the Heterogeneity of Corporate Entrepreneurship Programs

2022

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02 Paulo da Costa (TU/e), Data-driven Prognostics and Logistics Optimisation: A Deep Learning Journey
03 Ali el Hassouni (VUA), A Model A Day Keeps The Doctor Away: Reinforcement Learning For Personalized Healthcare
04 Ünal Aksu (UU), A Cross-Organizational Process Mining Framework
05 Shiwei Liu (TU/e), Sparse Neural Network Training with In-Time Over-Parameterization
06 Reza Refaei Afshar (TU/e), Machine Learning for Ad Publishers in Real Time Bidding
07 Sambit Praharaj (OU), Measuring the Unmeasurable? Towards Automatic Co-located Collaboration Analytics
08 Maikel L. van Eck (TU/e), Process Mining for Smart Product Design
09 Oana Andreea Inel (VUA), Understanding Events: A Diversity-driven Human-Machine Approach

10 Felipe Moraes Gomes (TUD), Examining the Effectiveness of Collaborative Search Engines
11 Mirjam de Haas (UT), Staying engaged in child-robot interaction, a quantitative approach to studying preschoolers' engagement with robots and tasks during second-language tutoring
12 Guanyi Chen (UU), Computational Generation of Chinese Noun Phrases
13 Xander Wilcke (VUA), Machine Learning on Multimodal Knowledge Graphs: Opportunities, Challenges, and Methods for Learning on Real-World Heterogeneous and Spatially-Oriented Knowledge
14 Michiel Overeem (UU), Evolution of Low-Code Platforms
15 Jelmer Jan Koorn (UU), Work in Process: Unearthing Meaning using Process Mining
16 Pieter Gijsbers (TU/e), Systems for AutoML Research
17 Laura van der Lubbe (VUA), Empowering vulnerable people with serious games and gamification
18 Paris Mavromoustakos Blom (TiU), Player Affect Modelling and Video Game Personalisation
19 Bilge Yigit Ozkan (UU), Cybersecurity Maturity Assessment and Standardisation
20 Fakhra Jabeen (VUA), Dark Side of the Digital Media - Computational Analysis of Negative Human Behaviors on Social Media
21 Seethu Mariyam Christopher (UM), Intelligent Toys for Physical and Cognitive Assessments
22 Alexandra Sierra Rativa (TiU), Virtual Character Design and its potential to foster Empathy, Immersion, and Collaboration Skills in Video Games and Virtual Reality Simulations
23 Ilir Kola (TUD), Enabling Social Situation Awareness in Support Agents
24 Samaneh Heidari (UU), Agents with Social Norms and Values - A framework for agent based social simulations with social norms and personal values
25 Anna L.D. Latour (LU), Optimal decision-making under constraints and uncertainty
26 Anne Dirkson (LU), Knowledge Discovery from Patient Forums: Gaining novel medical insights from patient experiences
27 Christos Athanasiadis (UM), Emotion-aware cross-modal domain adaptation in video sequences
28 Onuralp Ulusoy (UU), Privacy in Collaborative Systems
29 Jan Kolkmeier (UT), From Head Transform to Mind Transplant: Social Interactions in Mixed Reality
30 Dean De Leo (CWI), Analysis of Dynamic Graphs on Sparse Arrays
31 Konstantinos Traganos (TU/e), Tackling Complexity in Smart Manufacturing with Advanced Manufacturing Process Management
32 Cezara Pastrav (UU), Social simulation for socio-ecological systems
33 Brinn Hekkelman (CWI/TUD), Fair Mechanisms for Smart Grid Congestion Management
34 Nimat Ullah (VUA), Mind Your Behaviour: Computational Modelling of Emotion & Desire Regulation for Behaviour Change
35 Mike E.U. Ligthart (VUA), Shaping the Child-Robot Relationship: Interaction Design Patterns for a Sustainable Interaction

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02 Mariana Rachel Dias da Silva (TiU), Grounded or in flight? What our bodies can tell us about the whereabouts of our thoughts
03 Shabnam Najafian (TUD), User Modeling for Privacy-preserving Explanations in Group Recommendations
04 Gineke Wiggers (UL), The Relevance of Impact: bibliometric-enhanced legal information retrieval
05 Anton Bouter (CWI), Optimal Mixing Evolutionary Algorithms for Large-Scale Real-Valued Optimization, Including Real-World Medical Applications
06 António Pereira Barata (UL), Reliable and Fair Machine Learning for Risk Assessment
07 Tianjin Huang (TU/e), The Roles of Adversarial Examples on Trustworthiness of Deep Learning
08 Lu Yin (TU/e), Knowledge Elicitation using Psychometric Learning
09 Xu Wang (VUA), Scientific Dataset Recommendation with Semantic Techniques
10 Dennis J.N.J. Soemers (UM), Learning State-Action Features for General Game Playing
11 Fawad Taj (VUA), Towards Motivating Machines: Computational Modeling of the Mechanism of Actions for Effective Digital Health Behavior Change Applications
12 Tessel Bogaard (VUA), Using Metadata to Understand Search Behavior in Digital Libraries
13 Injy Sarhan (UU), Open Information Extraction for Knowledge Representation
14 Selma Čaušević (TUD), Energy resilience through self-organization
15 Alvaro Henrique Chaim Correia (TU/e), Insights on Learning Tractable Probabilistic Graphical Models
16 Peter Blomsma (TiU), Building Embodied Conversational Agents: Observations on human nonverbal behaviour as a resource for the development of artificial characters

D

List of scientific publications

As an example I've added the publications for my dissertation, these are to many. Do not expect to have to do so many! These only led to hassle with my supervisors.

Laurens Stoop

Combined first authors are labelled with an asterics (✍), the corresponding author is labelled with ✉.

Research articles

6. **Laurens P. Stoop**✍,✉, Karin van der Wiel, William Zappa, Arno Haverkamp, Ad J. Feelders, Machteld A. van den Broek,
The Climatological Renewable Energy Expectation Index,
DOI:10.48550/arXiv
In review at Environmental Research Letters, a preprint is available on arXiv (2023).

5. Rogier H. Wuijts✍, **Laurens P. Stoop**✍,✉, Jing Hu, Arno Haverkamp, Frank Wiersma, William Zappa, Gerard van der Schrier, Marjan van den Akker, Machteld A. van den Broek,
Linking Unserved Energy to Weather Regimes,
DOI:10.48550/arXiv.2303.15492
In review at Earth's Future, a preprint is available on arXiv (2023).

4. **Laurens P. Stoop**✉, Erik Duijm, Ad J. Feelders, Machteld A. van den Broek
Detection of Critical Events in Renewable Energy Production Time Series,
DOI:10.1007/978-3-030-91445-5_7
AALTD: ECML PKDD Workshop (2021).

3. Inès Harang, Fabian Heymann, **Laurens P. Stoop**✉,
Incorporating climate change effects into the European power system adequacy assessment using a post-processing method,
DOI:10.1016/j.segan.2020.100403
Sustainable Energy, Grids and Networks (2020).

2. Karin van der Wiel✉, Hannah C. Bloomfield, Robert W. Lee, **Laurens P. Stoop**, Russell Blackport, James A. Screen, Frank M. Selten,
The influence of weather regimes on European renewable energy production and demand,
DOI:10.1088/1748-9326/ab38d3
Environmental Research Letters (2019).

1. Karin van der Wiel✉, **Laurens P. Stoop**, Bas R.H. van Zuijlen, Russell Blackport, Machteld A. van den Broek, Frank M. Selten,
Meteorological conditions leading to extreme low variable renewable energy production and extreme high energy shortfall,
DOI:10.1016/j.rser.2019.04.065
Renewable and Sustainable Energy Reviews (2019).

Perspectives

3. Laurent Dubus✉, David J. Brayshaw, Daniel Huertas-Hernando, David Radu, Justin Sharp, William Zappa, **Laurens P. Stoop**,
Towards a future-proof climate database for European energy system studies,
DOI:10.1088/1748-9326/aca1d3
Enviromental Research Letters (2022).

2. Michael T. Craig✍, Jan Wohland✍, ✉, **Laurens P. Stoop**✍, Alexander Kies, Bryn Pickering, Hannah C. Bloomfield, Jethro Browell, Matteo De Felice, Chris J. Dent, Adrien Deroubaix, Felix Frischmuth, Paula L.M. Gonzalez, Aleksander Grochowicz, Katharina Gruber, Philipp Härtel, Martin Kittel, Leander Kotzur, Inga Labuhn, Julie K. Lundquist, Noah Pflugradt, Karin van der Wiel, Marianne Zeyringer, David J. Brayshaw,
Overcoming the disconnect between energy system and climate modeling,
DOI:10.1016/j.joule.2022.05.010
Joule (2022).

1. Hannah C. Bloomfield✉, Paula L.M. Gonzalez, Julie K. Lundquist, **Laurens P. Stoop**, Jethro Browell, Roger Dargaville, Matteo De Felice, Katharina Gruber, Adriaan Hilbers, Alex Kies, Mathaios Panteli, Hazel E. Thornton, Jan Wohland, Marianne Zeyringer, David J. Brayshaw,
The importance of weather and climate to energy systems: a workshop on next generation challenges in energy–climate modeling,
DOI:10.1175/BAMS-D-20-0256.1
Bulletin of the American Meteorological Society (2021).

Datasets

3. *Weather Regime definition for the Euro-Atlantic sector (Daily, DFJM, 1979-2018) used for ACDC-ESM (v1.0)* ,
Swinda K.J. Falkena, **Laurens P. Stoop**✉, Zenodo (2023).
DOI:10.5281/zenodo.7782226

2. *Hydropower dataset of hourly inflow values for European bidding zones for ACDC-ESM (v1.0)*,
Laurens P. Stoop✉, Zenodo (2023).
DOI:10.5281/zenodo.7766457

1. *Energy Climate dataset consitent with ENTSO-E TYNDP2020 studies (CSV & NetCDF) for ACDC-ESM (v1.0)* ,
Laurens P. Stoop✉, Zenodo (2022).
DOI:10.5281/zenodo.7390479

E

Curriculum Vitæ

Your First Names Lastname

YYYY Born in City, Country.

Education

YYYY–YYYY Masters in Kick-Ass Awesomeness
Utrecht University, Utrecht
Thesis: Snappy title for cool work
Supervisors: S. Up & E.R. Visor

YYYY–YYYY Bachelors in Awesomeness
Utrecht University, Utrecht
Thesis: Development of an fancy framework
Supervisors: A. Person & A. Nother-Person

YYYY–YYYY Voorbereidend Wetenschappelijk Onderwijs (VWO)
Some School, City

Work

YYYY–present New Job Title
Important Company That Pays Your Bills

YYYY–YYYY PhD Candidate
Some Department, Utrecht University

Volunteering work

YYYY–YYYY Helping Handy
Very Nice Organisation

Acknowledgements

Van je collega's moet je het hebben

What about very old friends?

Blood is thicker than water / Home is where the heart is