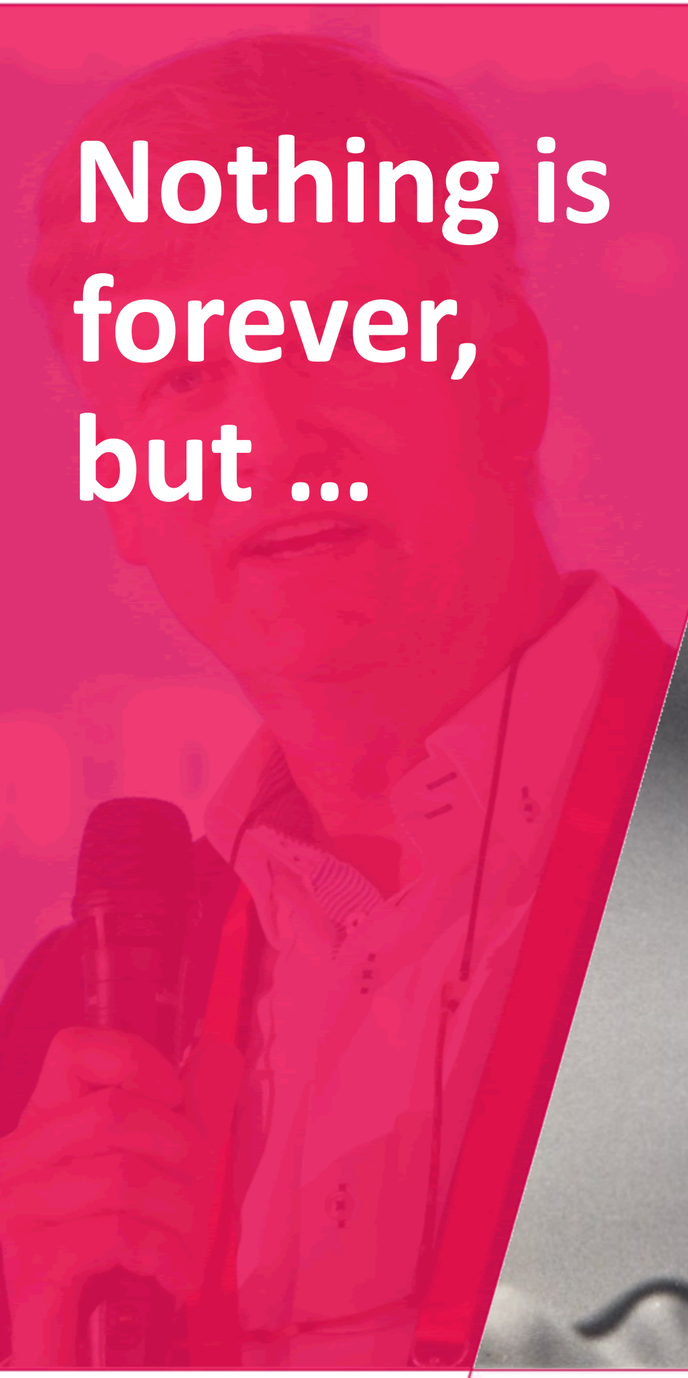
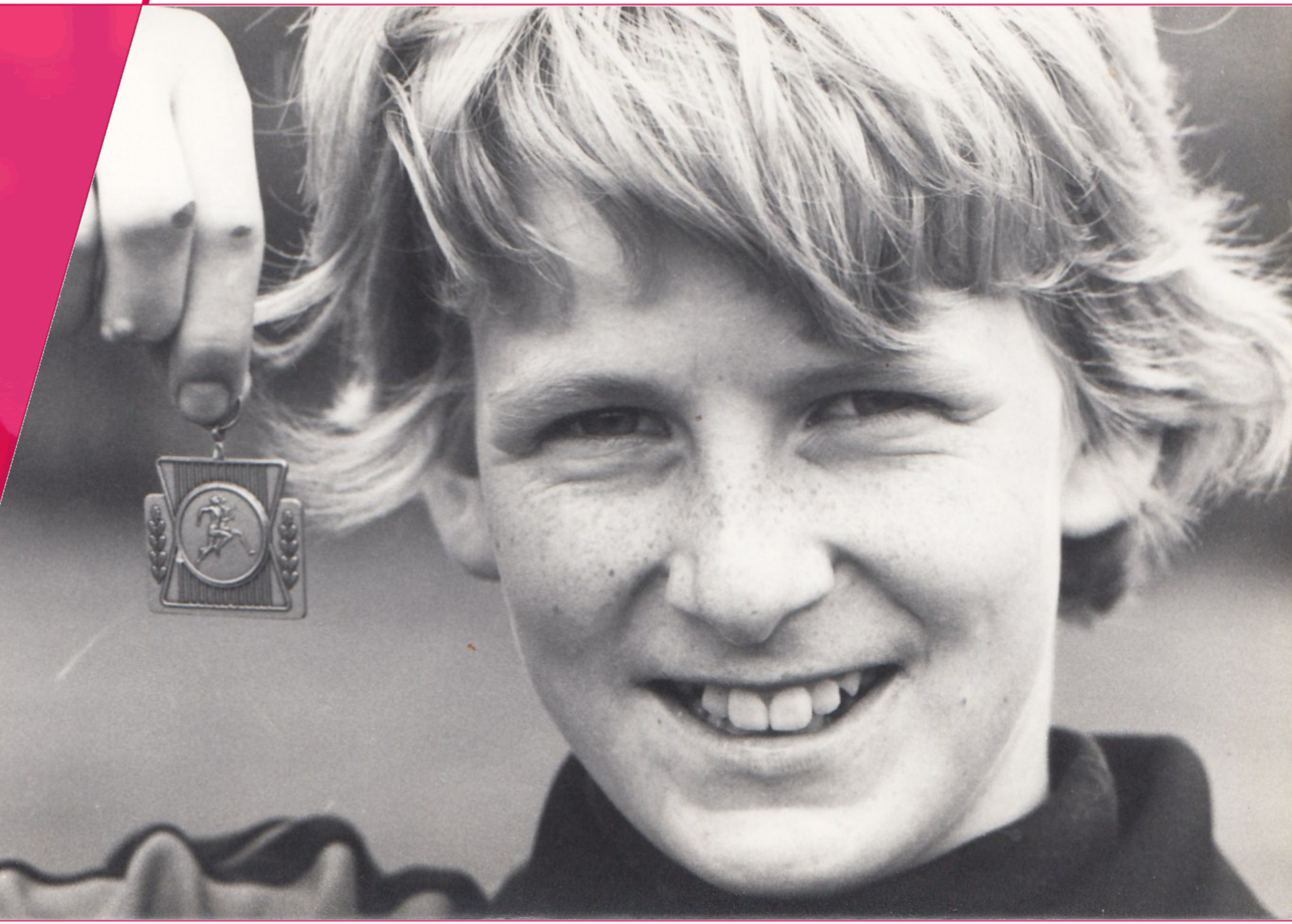
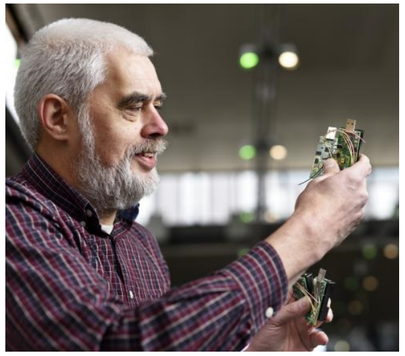
Nothing is forever, but …



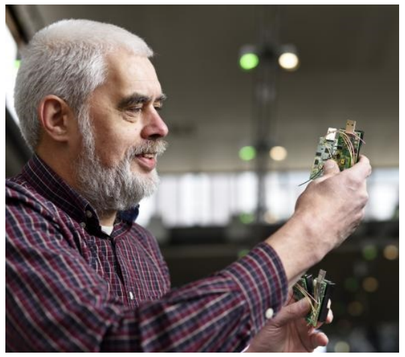


… it is not over yet!

Thanks to the speakers

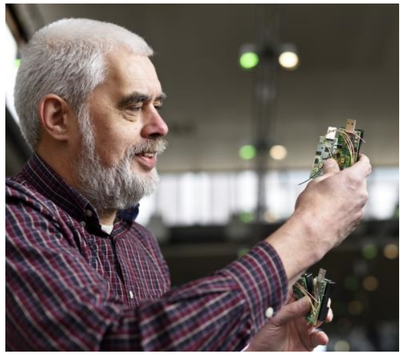


Johan Lukkien



Johan Lukkien

Frank Baaijens



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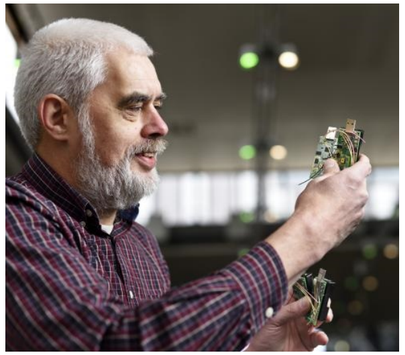

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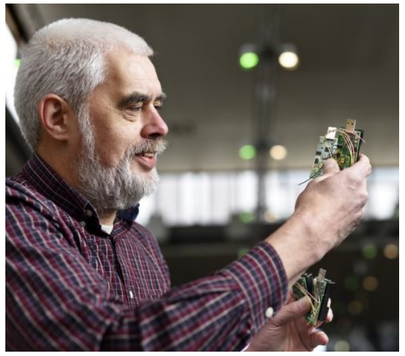

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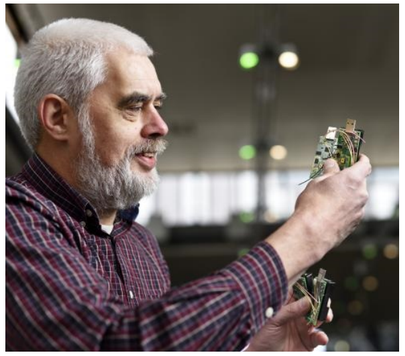

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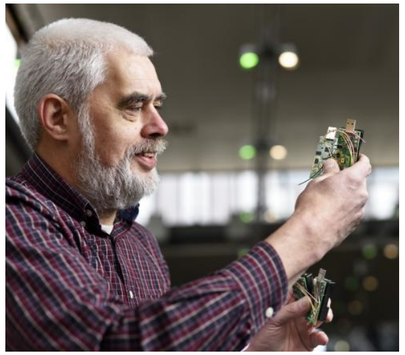

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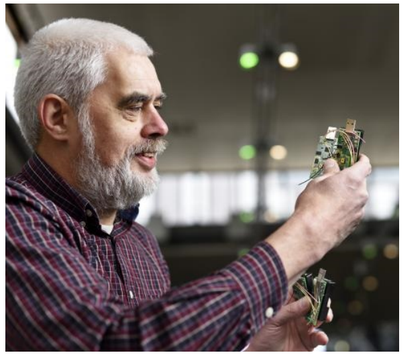

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Kees van Hee

Hard Rock
CAFE
REYKJAVÍK

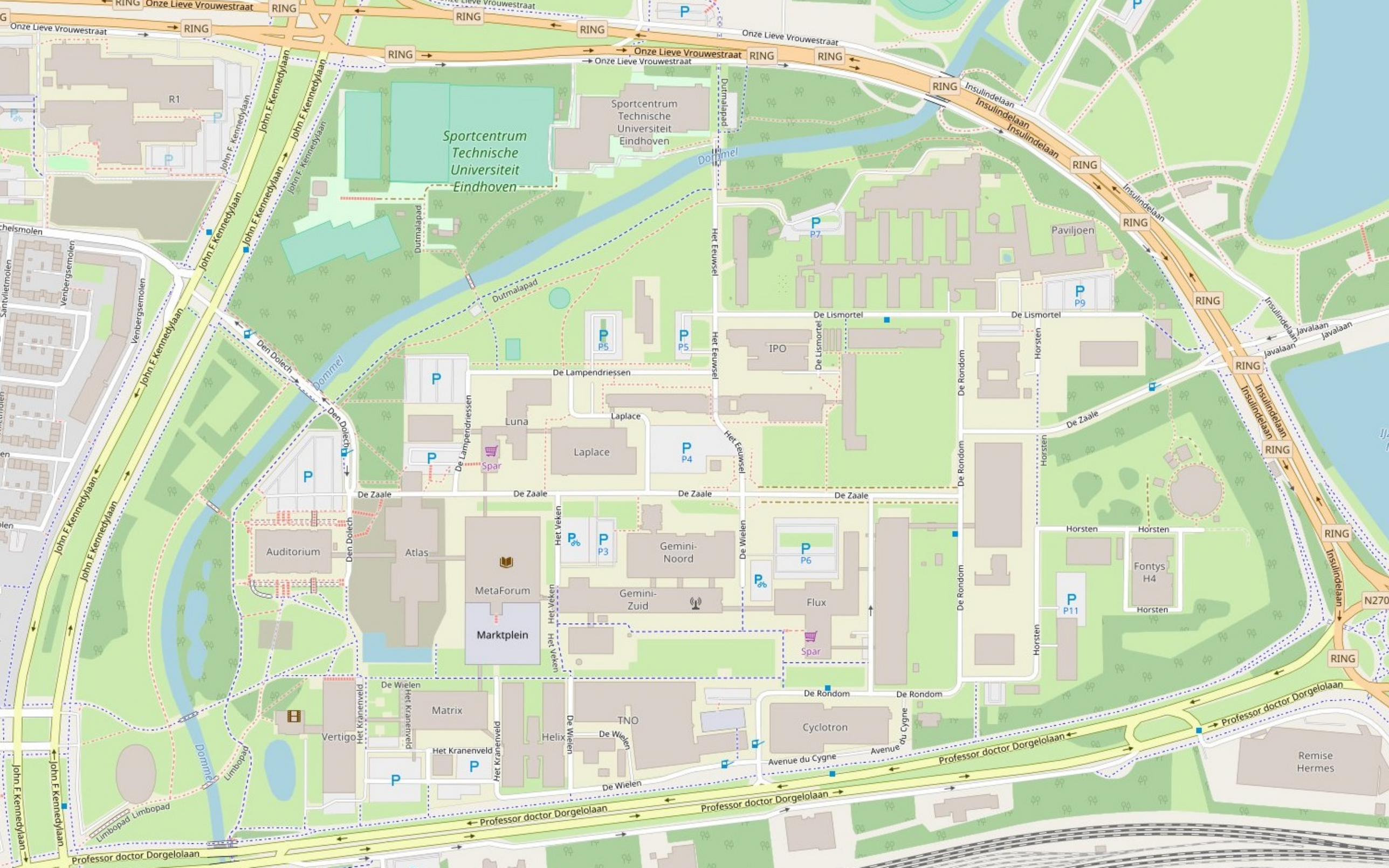
1984, 1988, 1992, 1996, 1998, 2000, 2006, …

Outside

- TNO 1988 – 1992
- Bakkenist 1993 – 1998
- Karlsruhe/Athens/Boulder 1998 – 2000
- QUT Brisbane 1993 – now
- HSE Moscow 2012 – 2015
- Tilburg University 2015 – now
- FBK Trento 2016 – now
- RWTH 2018 – now

@ THE - TU/e

- Student 1984 – 1988
- PhD 1988 – 1992
- UD 1992 – 1996
- UHD 1996 – 1999
- HGL W&I 2000 – 2003
- HGL IE&IS 2000 – 2010
- HGL W&I 2006 – now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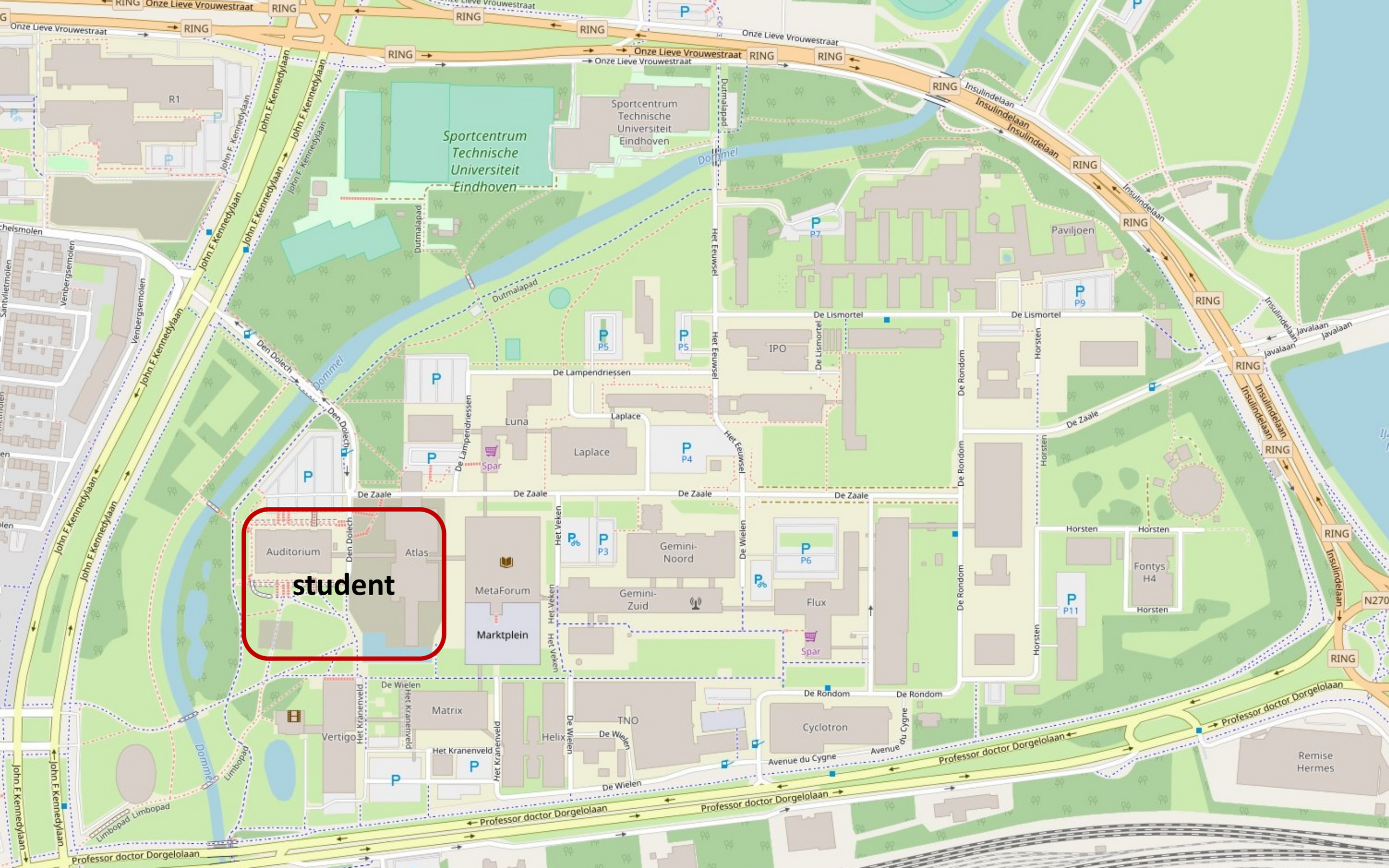
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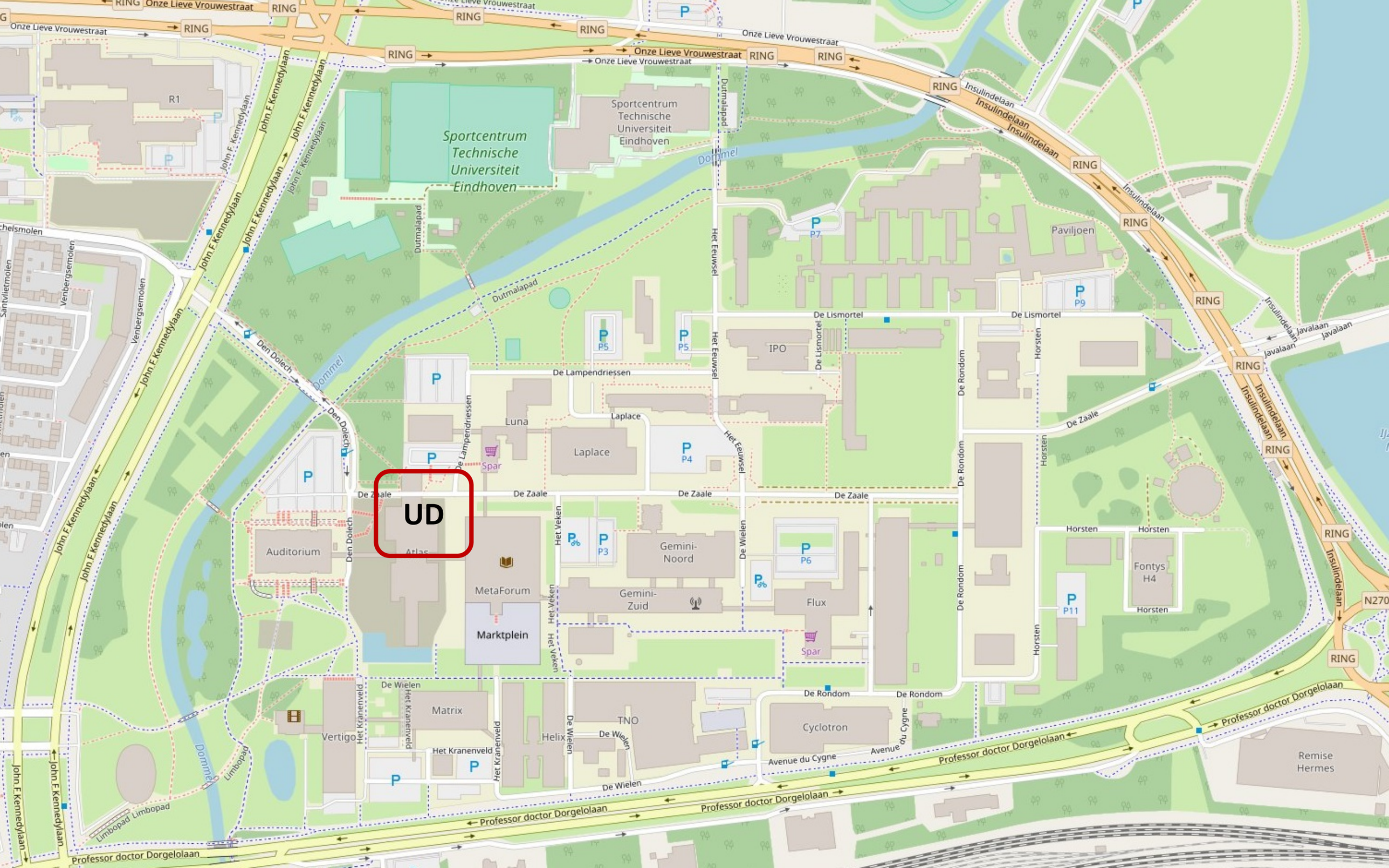
PhD

PhD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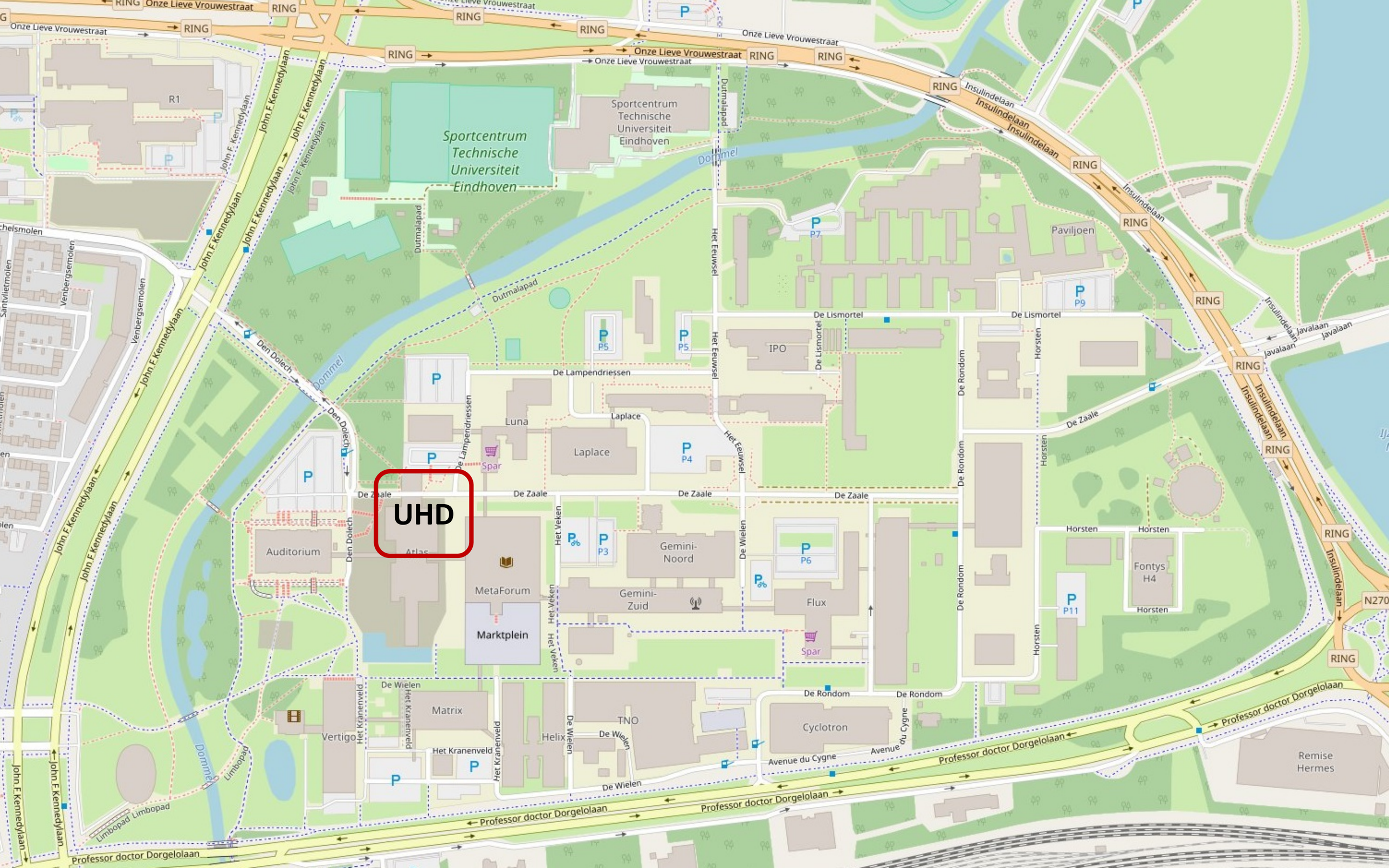
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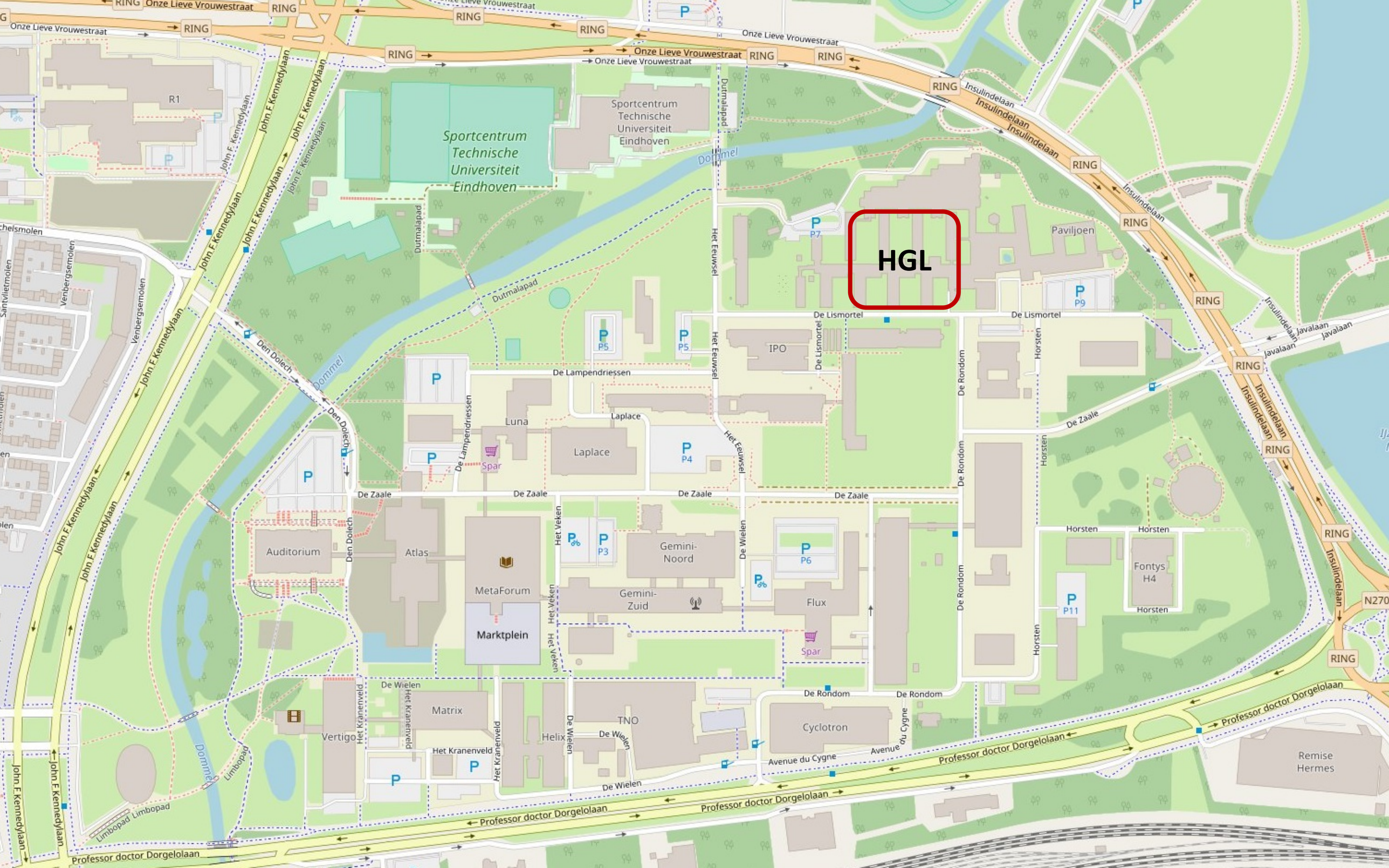
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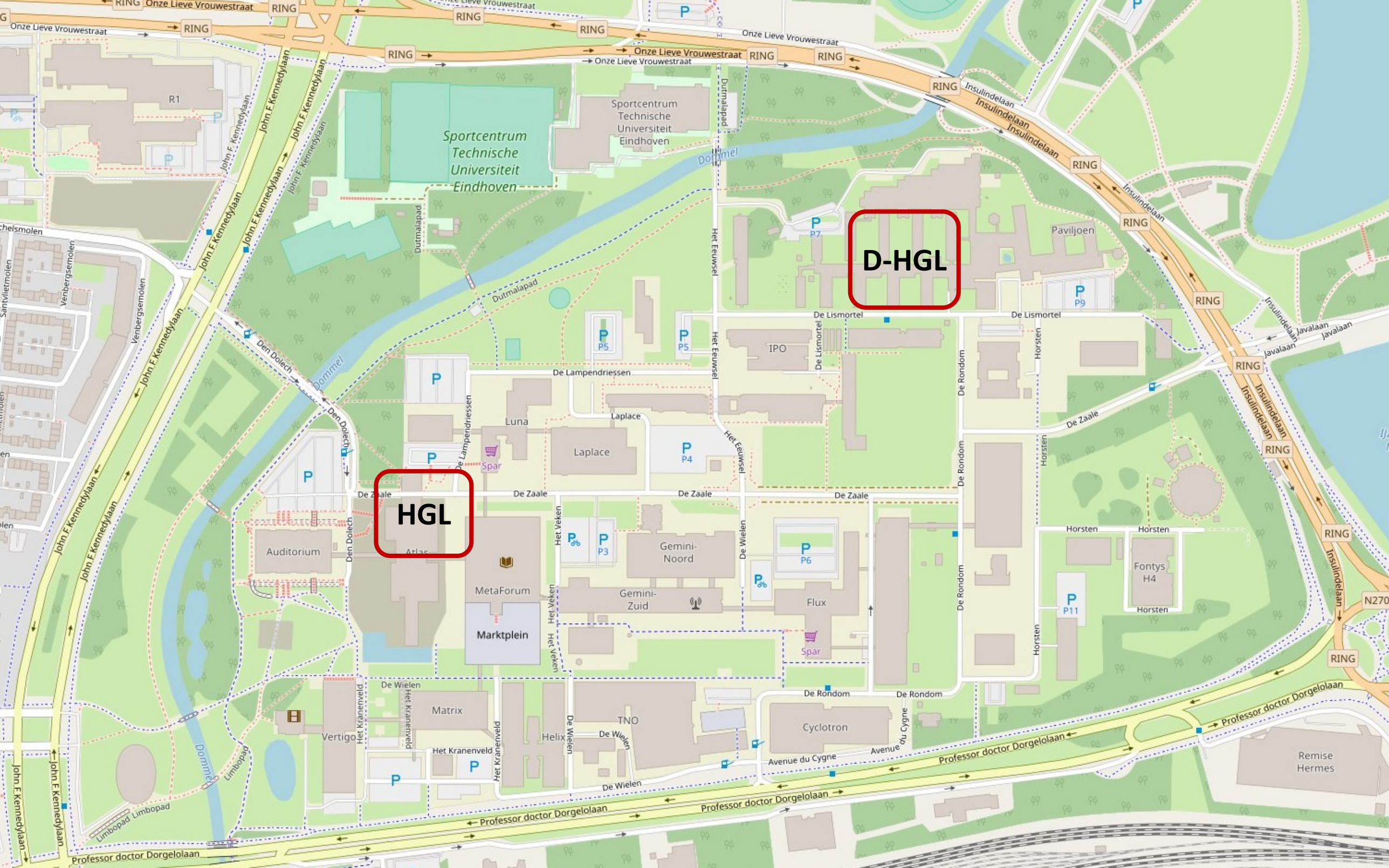
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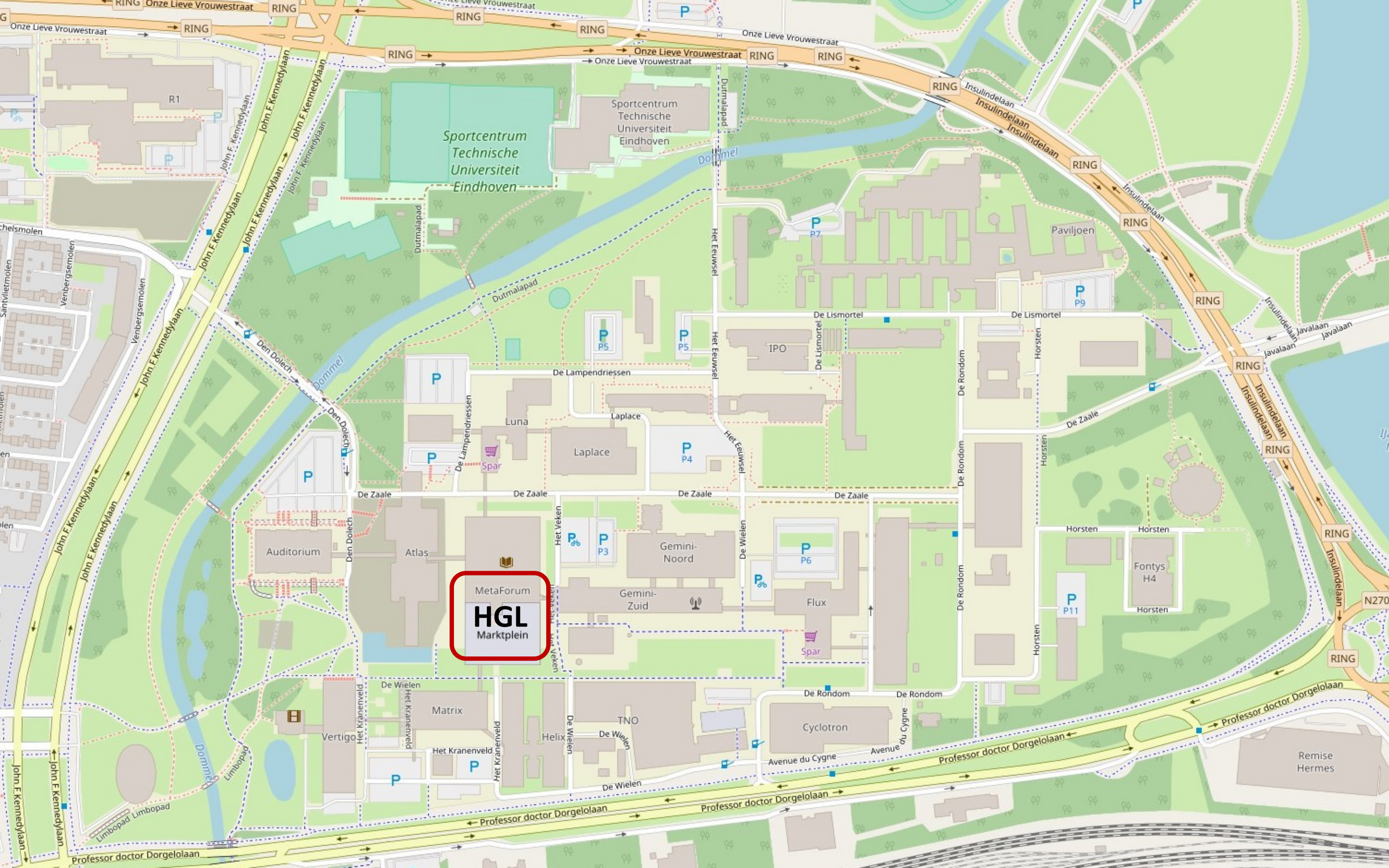
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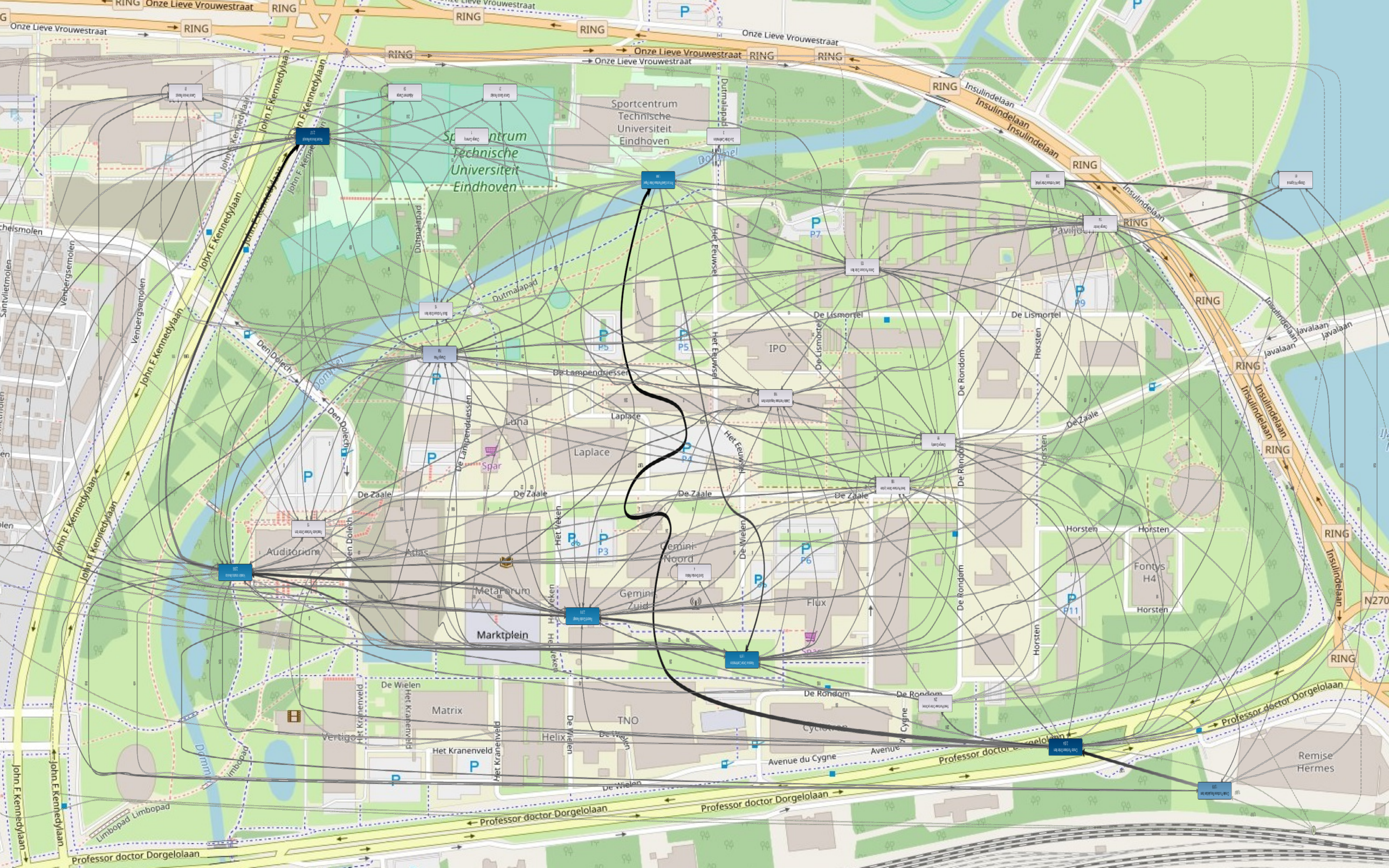

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Three main “waves”

Petri nets and simulation (87-now)

- Timed and colored Petri nets
- Performance analysis using simulation and time-bounds
- Modeling and analyzing logistic systems
- ExSpecT (Executable Specification Tool), also used in Protos and BPM|one, later CPN Tools

Workflow management (94-now)

- Petri nets as a foundation for workflow management
- Workflow verification (e.g., Woflan)
- Workflow patterns
- Yet Another Workflow Language (YAWL)
- Configurable process models, declarative process models (Declare), artifact centric models (Proclets), OCBC models, hybrid models, etc.
- Business Process Management (BPM) and Case Management (CM)

Process mining (99-now)

- Data Science (DS)
- Process discovery techniques (alpha algorithm and its variants, region-based algorithms, heuristic algorithms, inductive algorithms, etc.)
- Conformance checking techniques (token-based replay, alignments, footprints, different measures for fitness, generalizations, etc.)
- Other perspectives (data, resources, time, costs, etc.)
- Operational support (predictions, recommendations, etc.)
- Process mining in the large (decomposition, distribution, streaming, etc.)
- ProM and RapidProM while influencing most of the 25 commercial process mining tools

Three main “waves”

Petri nets and simulation (87-now)

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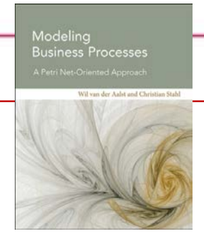

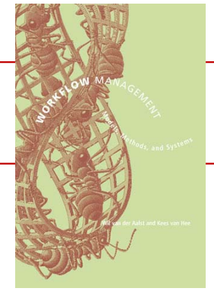

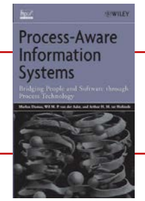

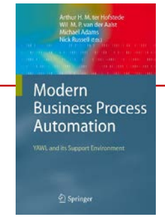

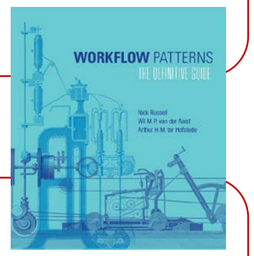

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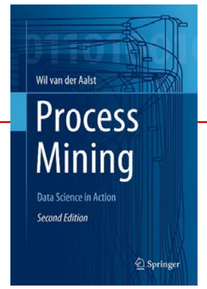
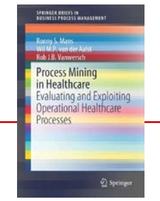
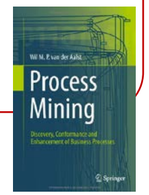






Work of many !

ProM team 19 November 2007

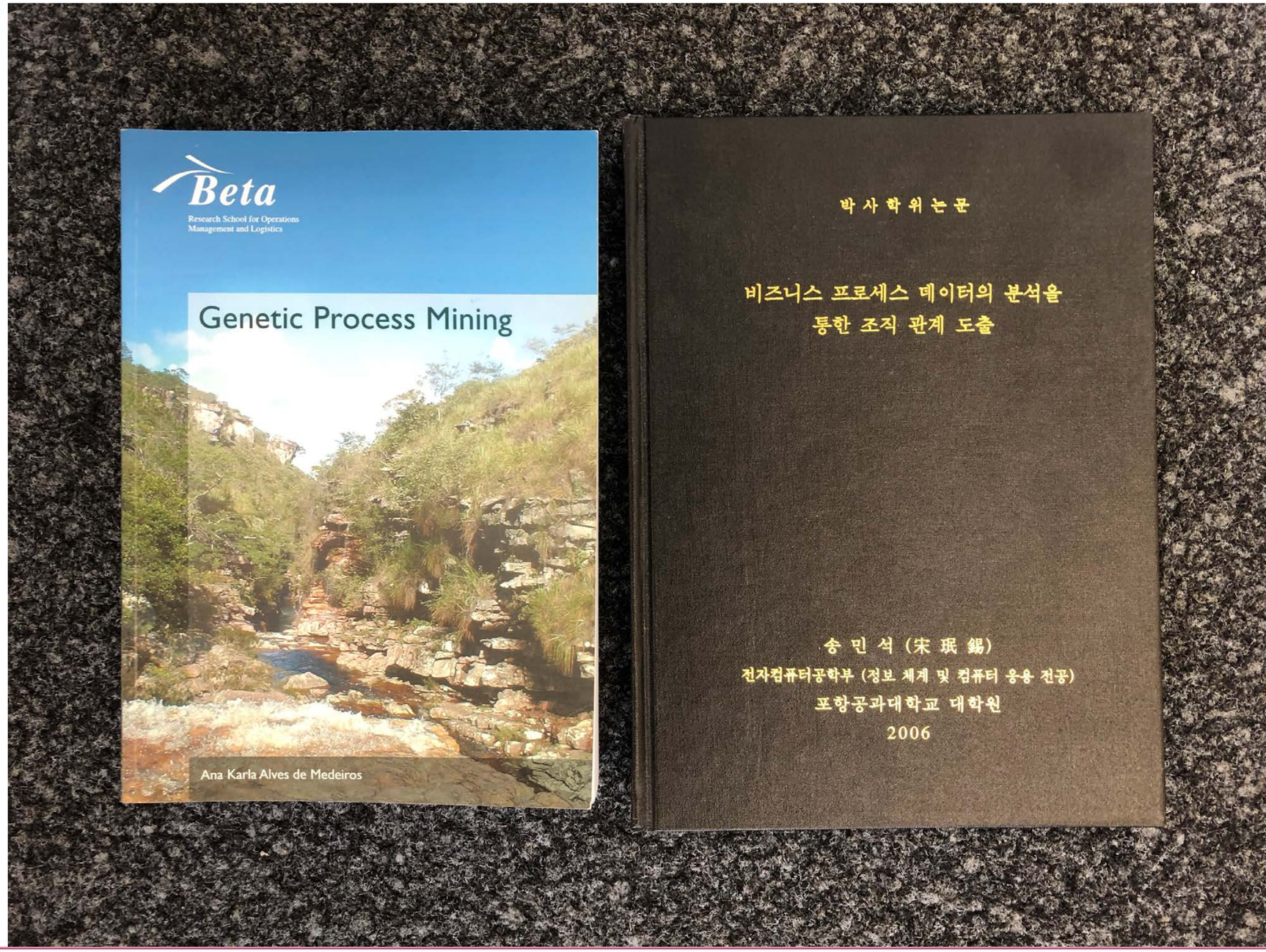
Service Substitution
A Behavioral Approach Based on Petri Nets
Using Behavioral Context in Process Mining
Exploration, Preprocessing and Analysis of Event Data
Xixi Lu
Foundations of Process-Aware Information Systems
Verifying Responsiveness for Open Systems by Means of Conformance Checking
Richard Müller
Managing Variability in Process-Aware Information Systems
Marcello La Rosa
Grid Architecture for Distributed Process Mining
Beta
configurable process models
Florian Gottschalk
Flexible Evolutionary Algorithms for Mining Structured Process Models
Workflow Support for the Healthcare Domain
Constraint-Based Workflow Management Systems:
Shifting Control to Users
ROBUST PROCESS MINING WITH GUARANTEES
Sander J.J. Leemans
Anna Kalenkova
LEARNING HIGH-LEVEL PROCESS MODELS FROM EVENT DATA
Understanding non-compliance
Aligning OBSERVED and MODELED Behavior
Arya Adriansyah
Process Improvement: The Creation and Evaluation of Process Alternatives
Process Mining in the Large
Preprocessing, Discovery, and Diagnostics
R.P. Jagadeesh Chandra Bose
Resource-Aware Business Process Management: Analysis and Support
Multi-perspective Process Mining
Design and Control of Workflow Processes
Business Process Management for the Service Industry
Verification of WF-nets
Eric Verbeek
Genetic Process Mining
Ana Karla Alves de Medeiros
Process Mining and Verification
Boudewijn van Dongen
PROCESS MINING
CONFORMANCE AND EXTENSION
PROCESS MINING IN FLEXIBLE ENVIRONMENTS
CHRISTIAN W. GÜNTHER

Hajo
(2002)
Robert
(2004)
Eric
(2004)

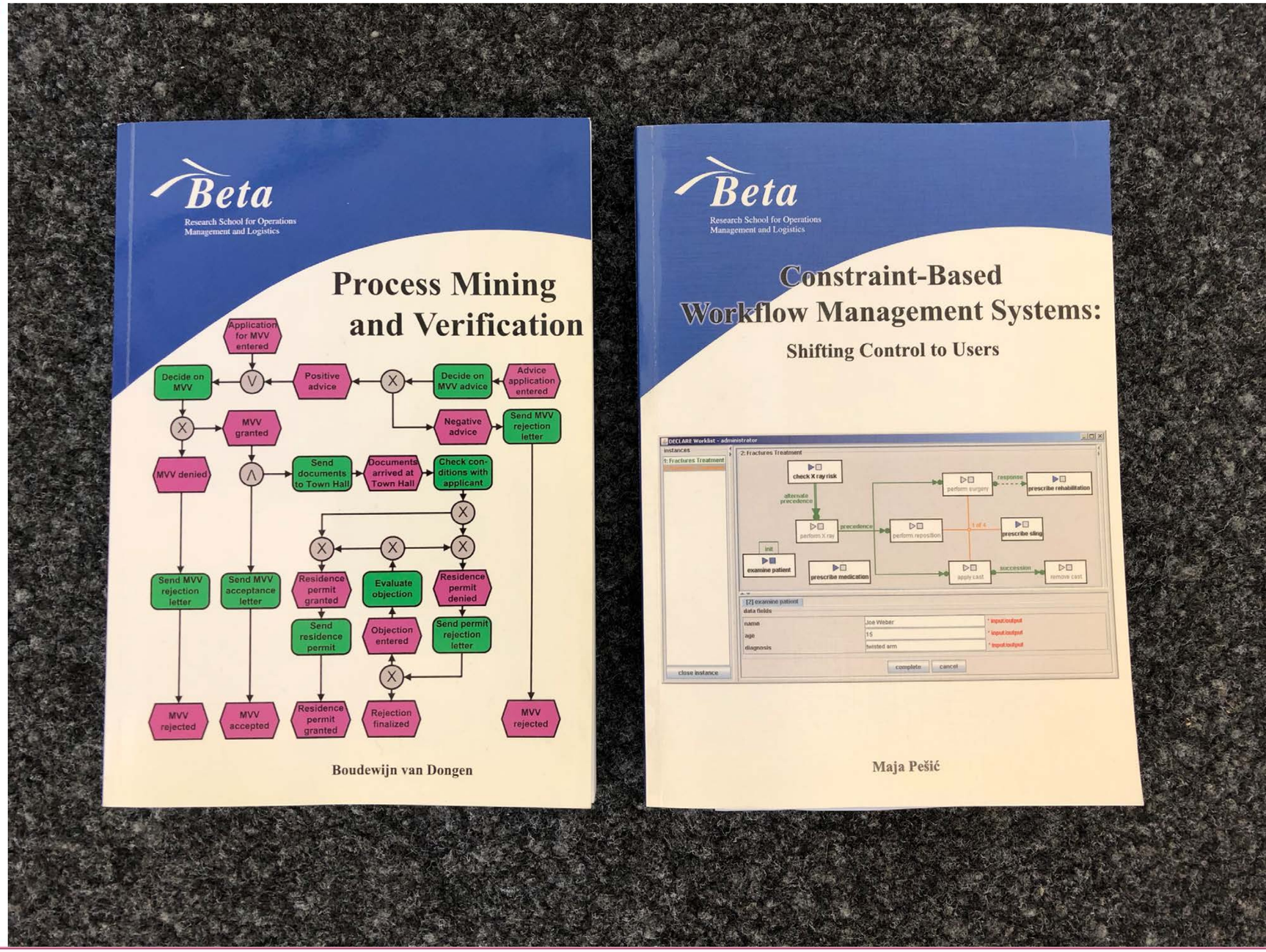
Hajo (2002) Robert (2004) Eric (2004)

“Nothing is forever” 1984 – 2018

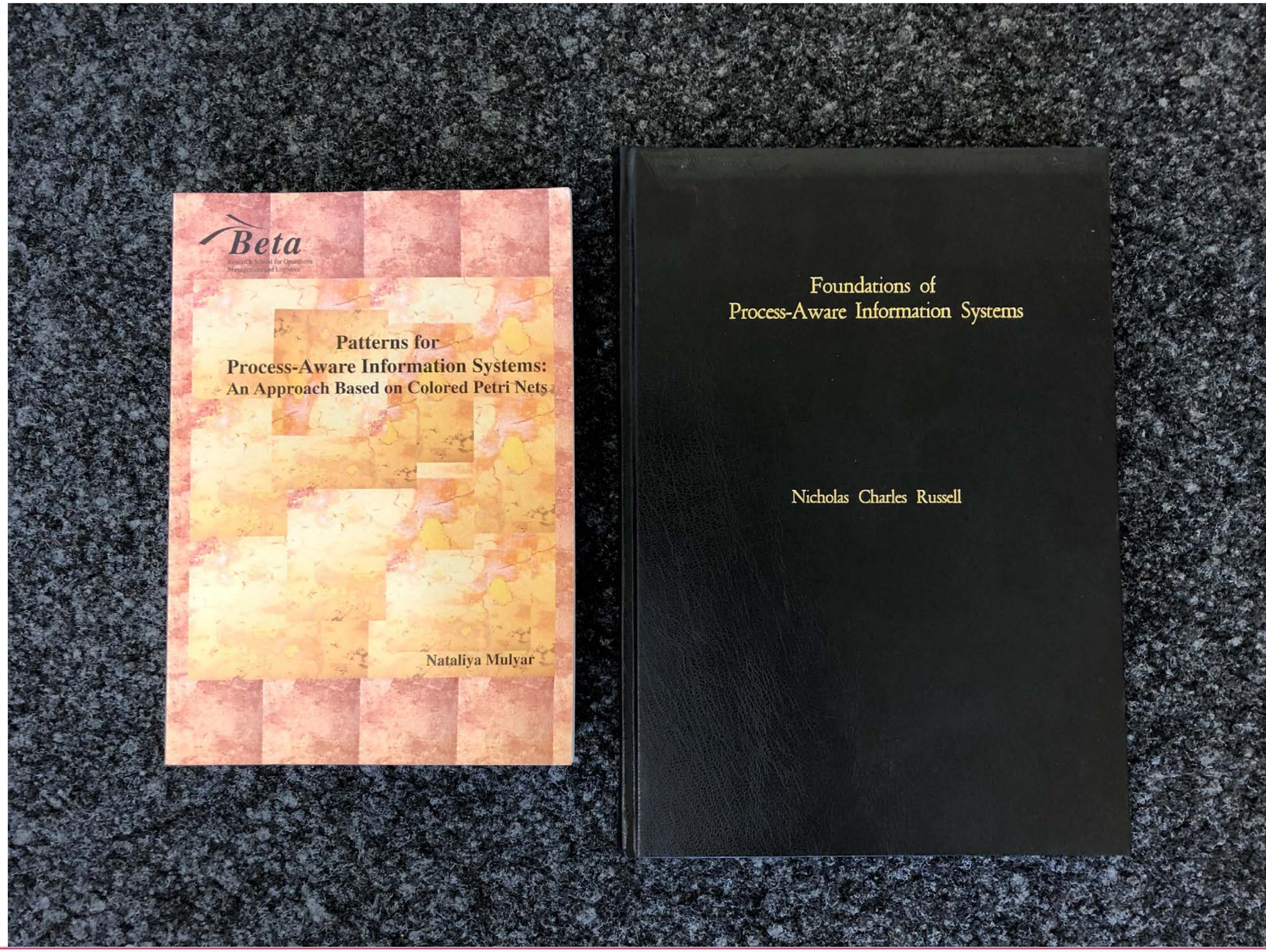
Ana Karla
(2006)
Minseok
(2005)



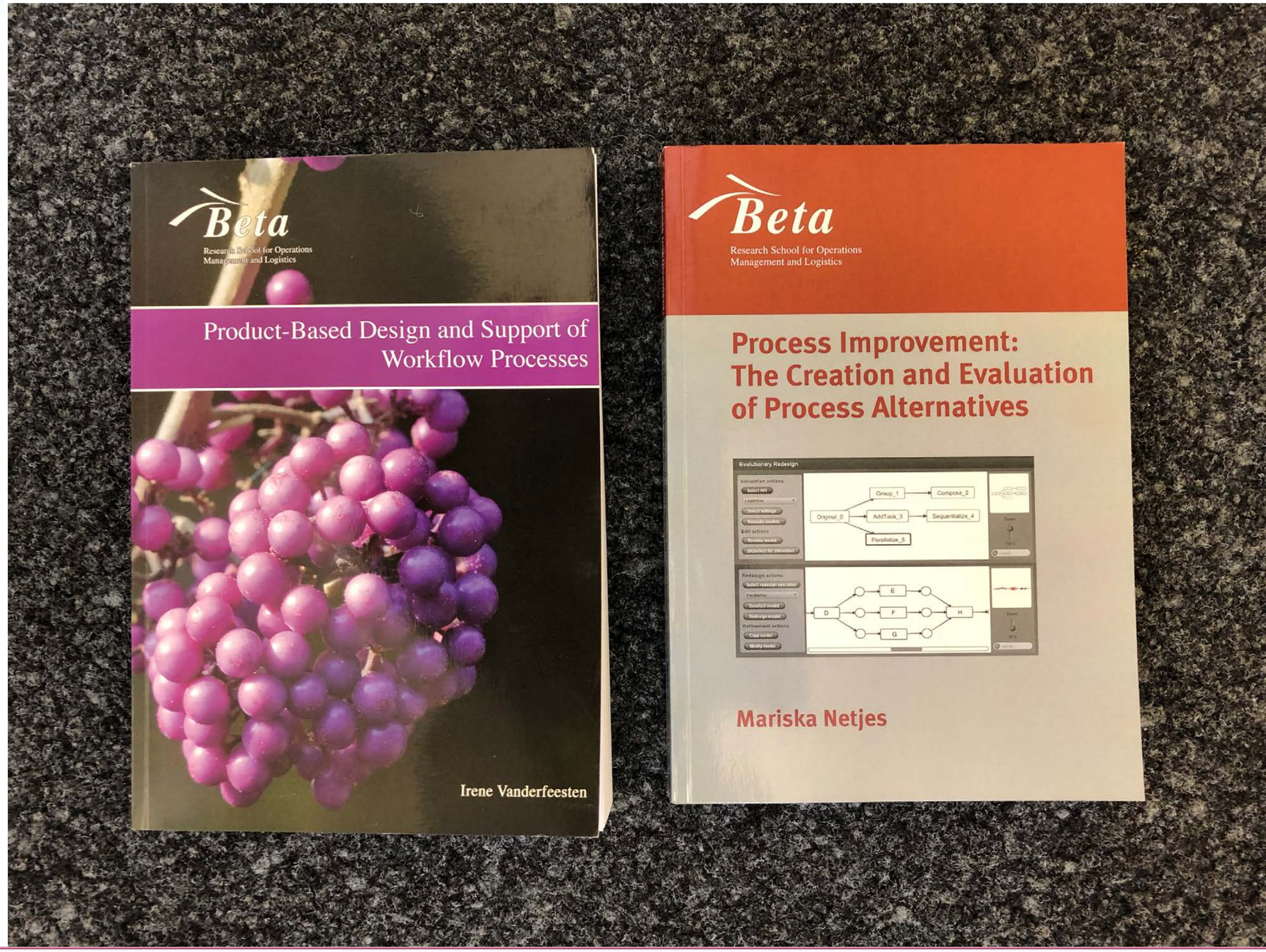
Boudewijn
(2007)
Maja
(2008)



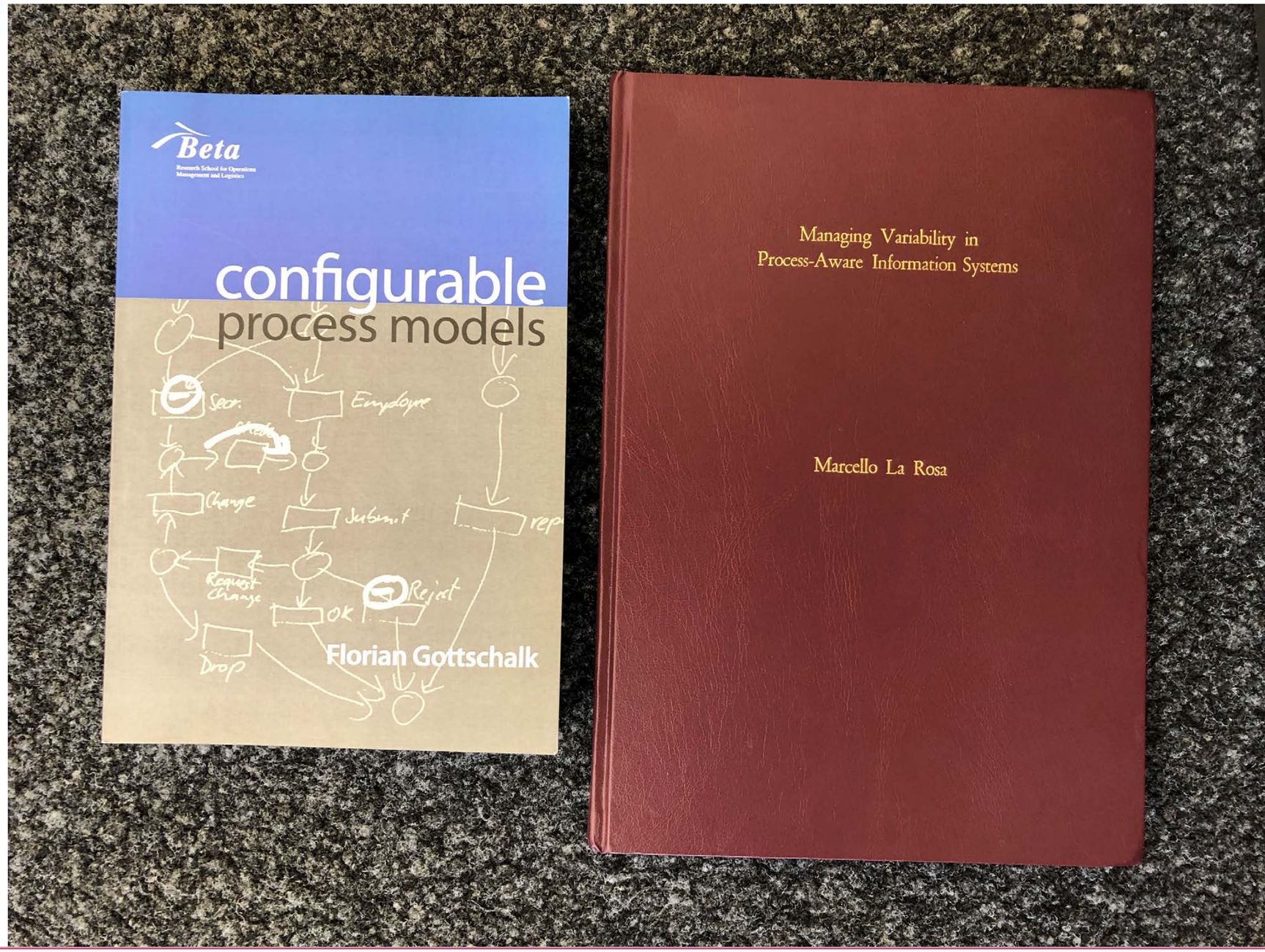
Nataliya
(2009)
Nick
(2007)



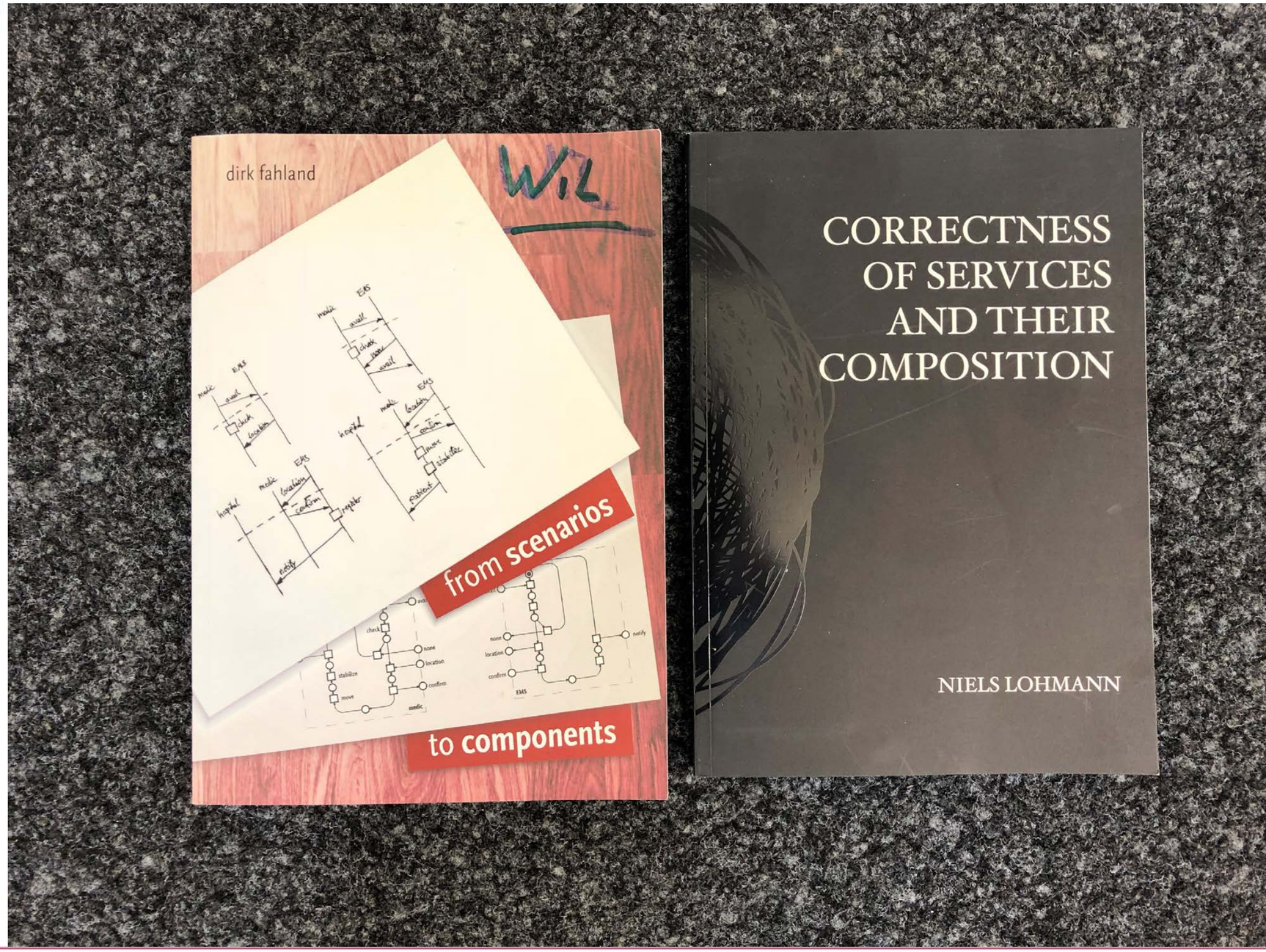
Irene
(2009)
Mariska
(2010)



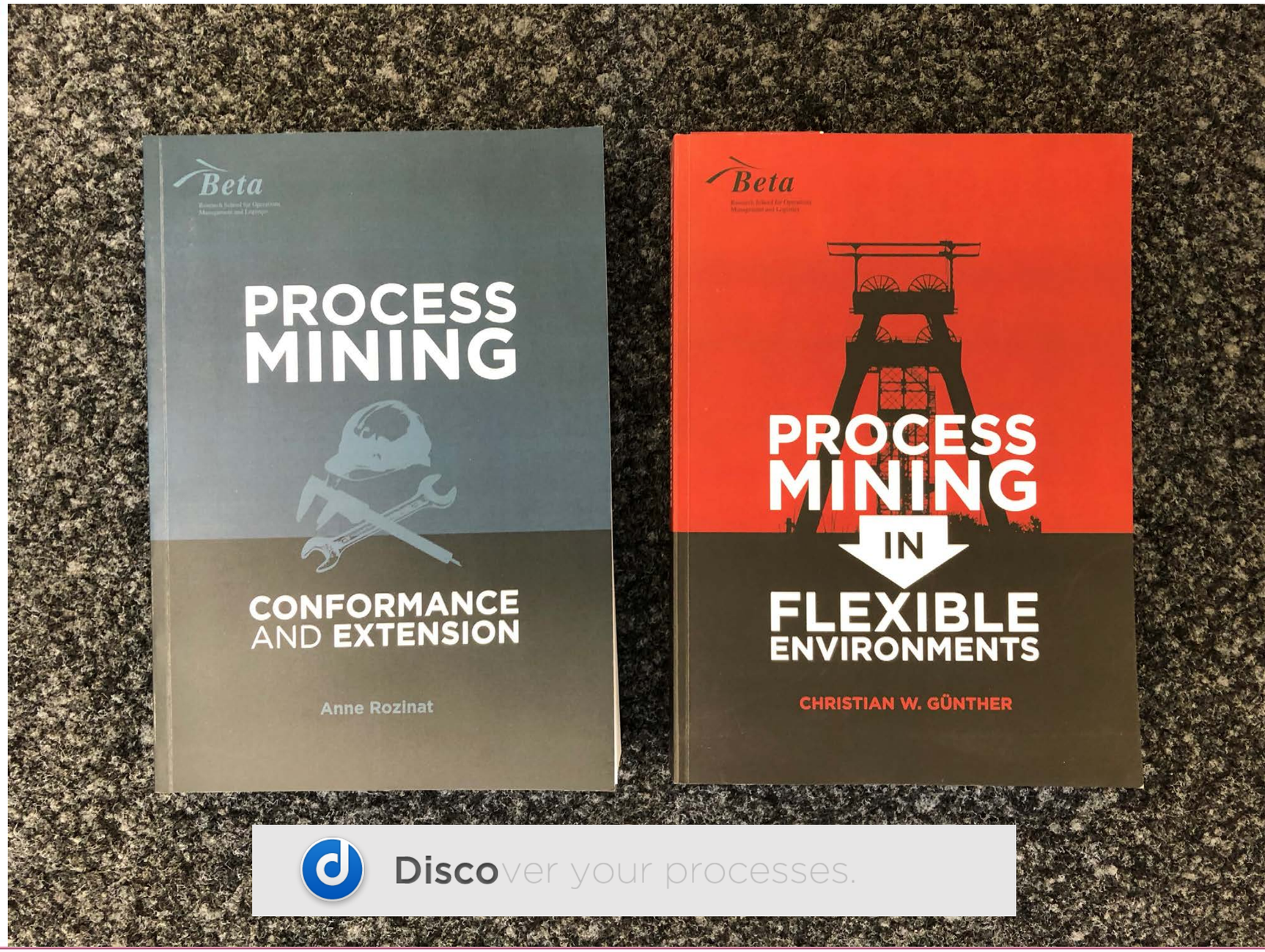
Florian
(2009)
Marcello
(2009)



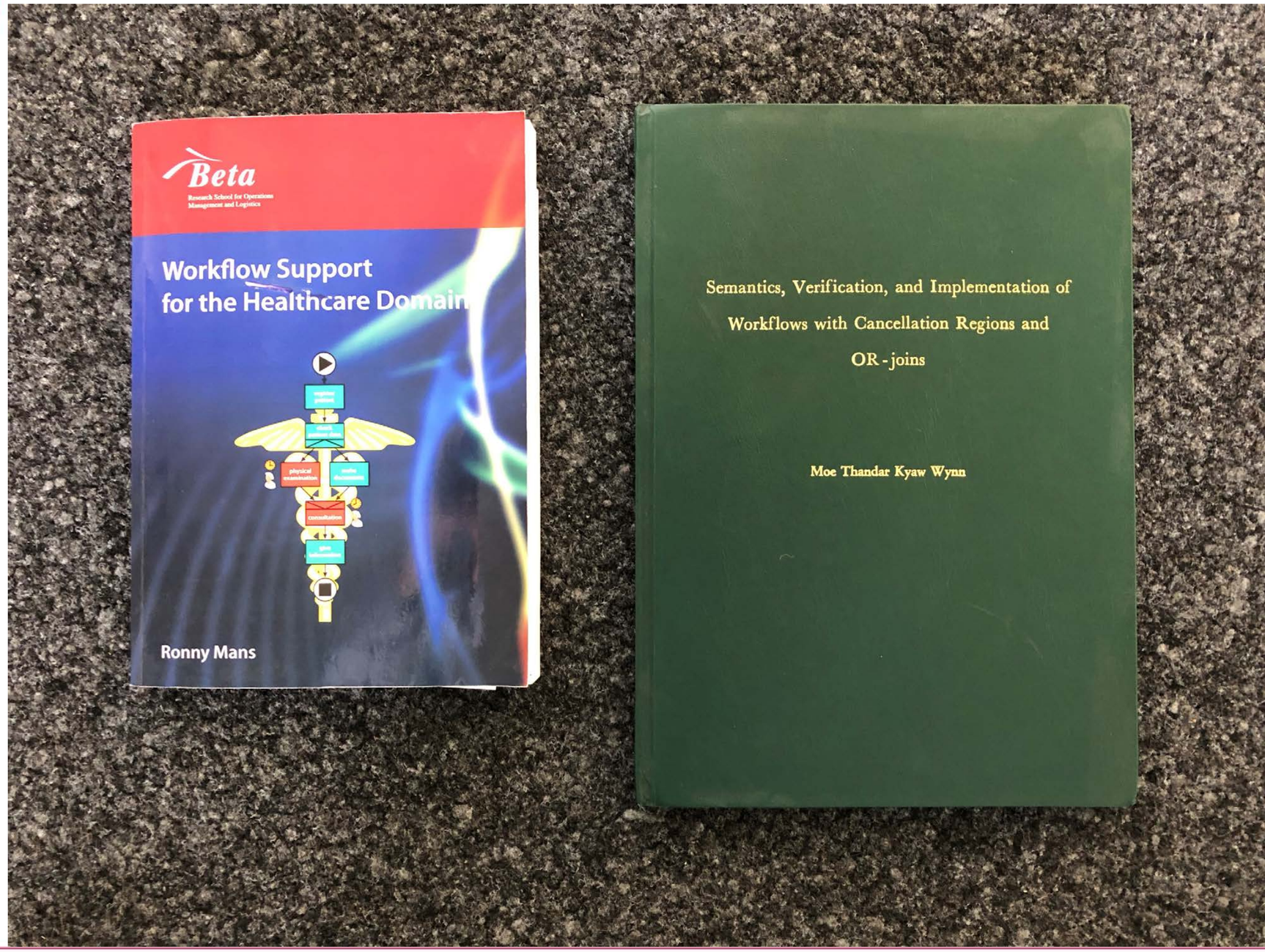
Dirk (2010) Niels (2010)



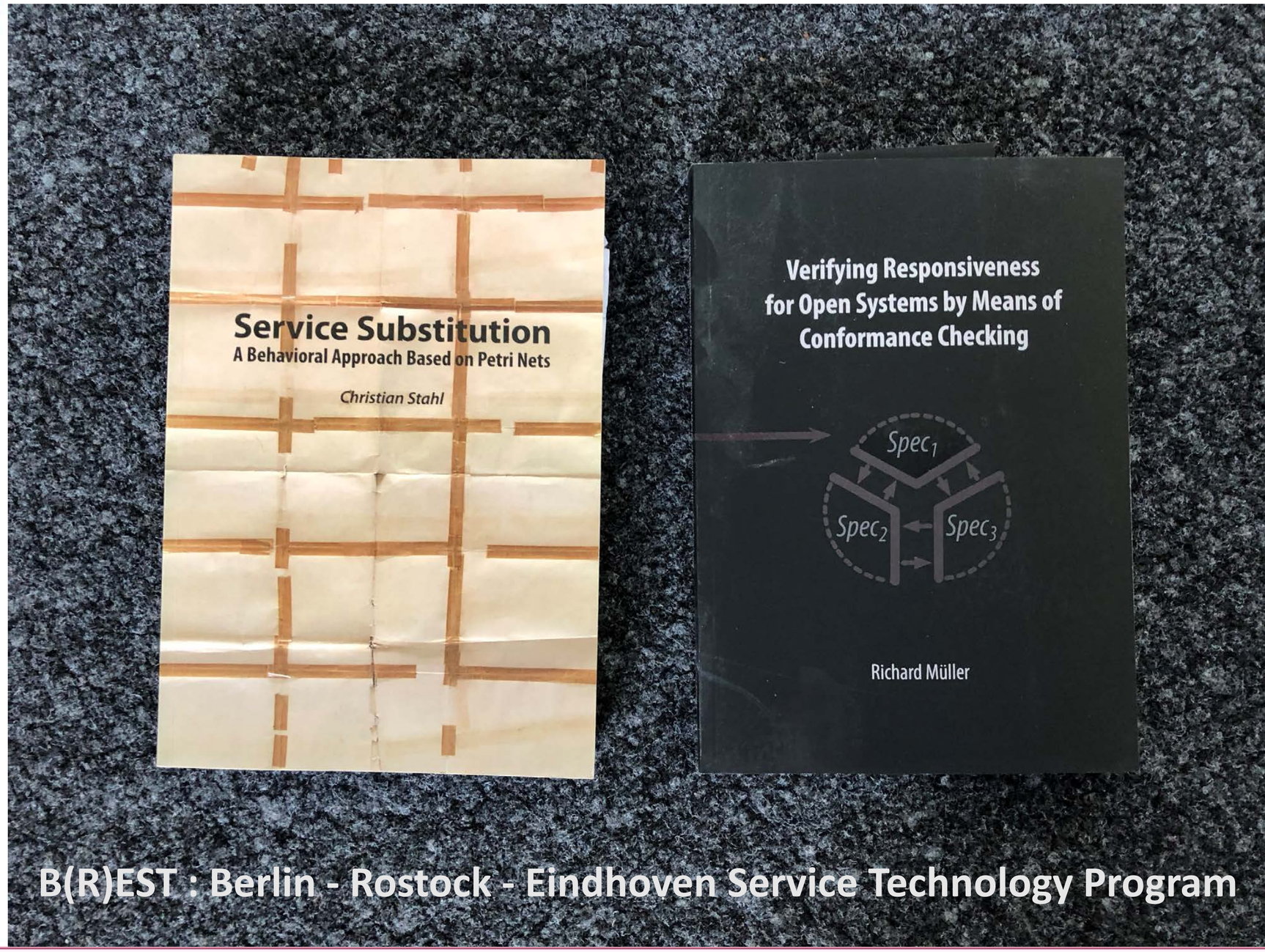
Anne (2010) Christian (2009)



Ronny
(2011)
Moe
(2006)

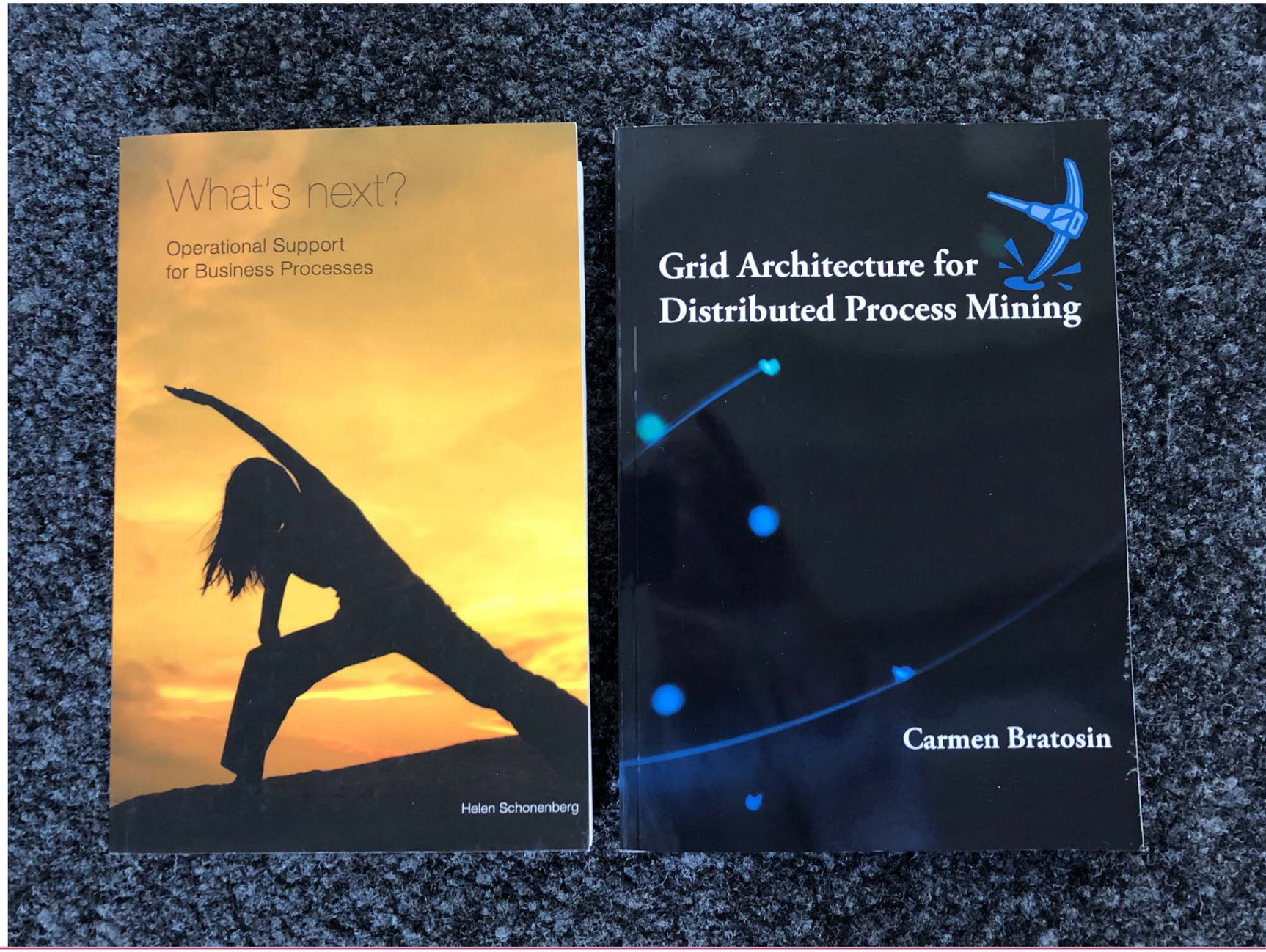


Christian (2009) Richard (2014)

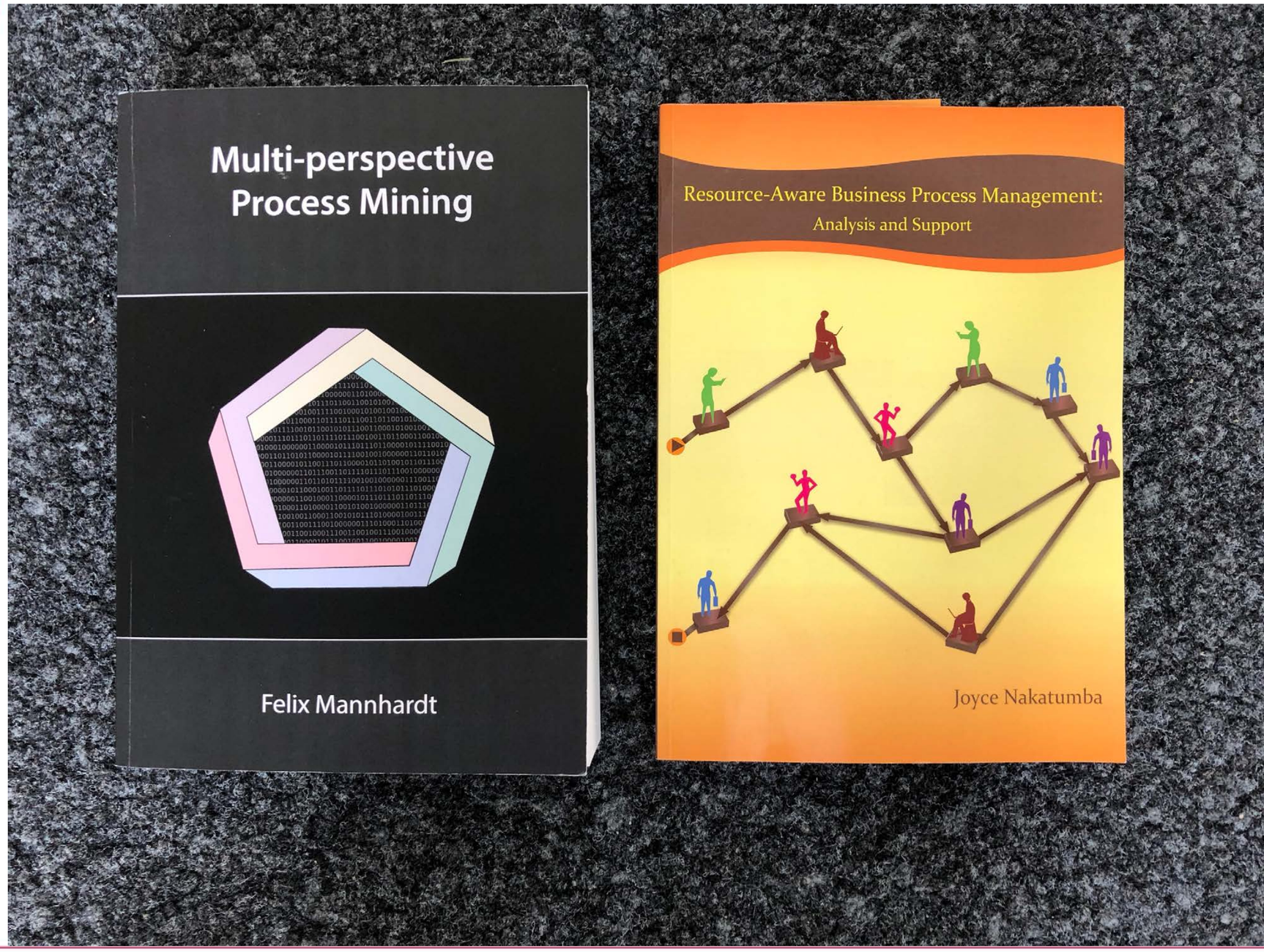


B(R)EST : Berlin - Rostock - Eindhoven Service Technology Program

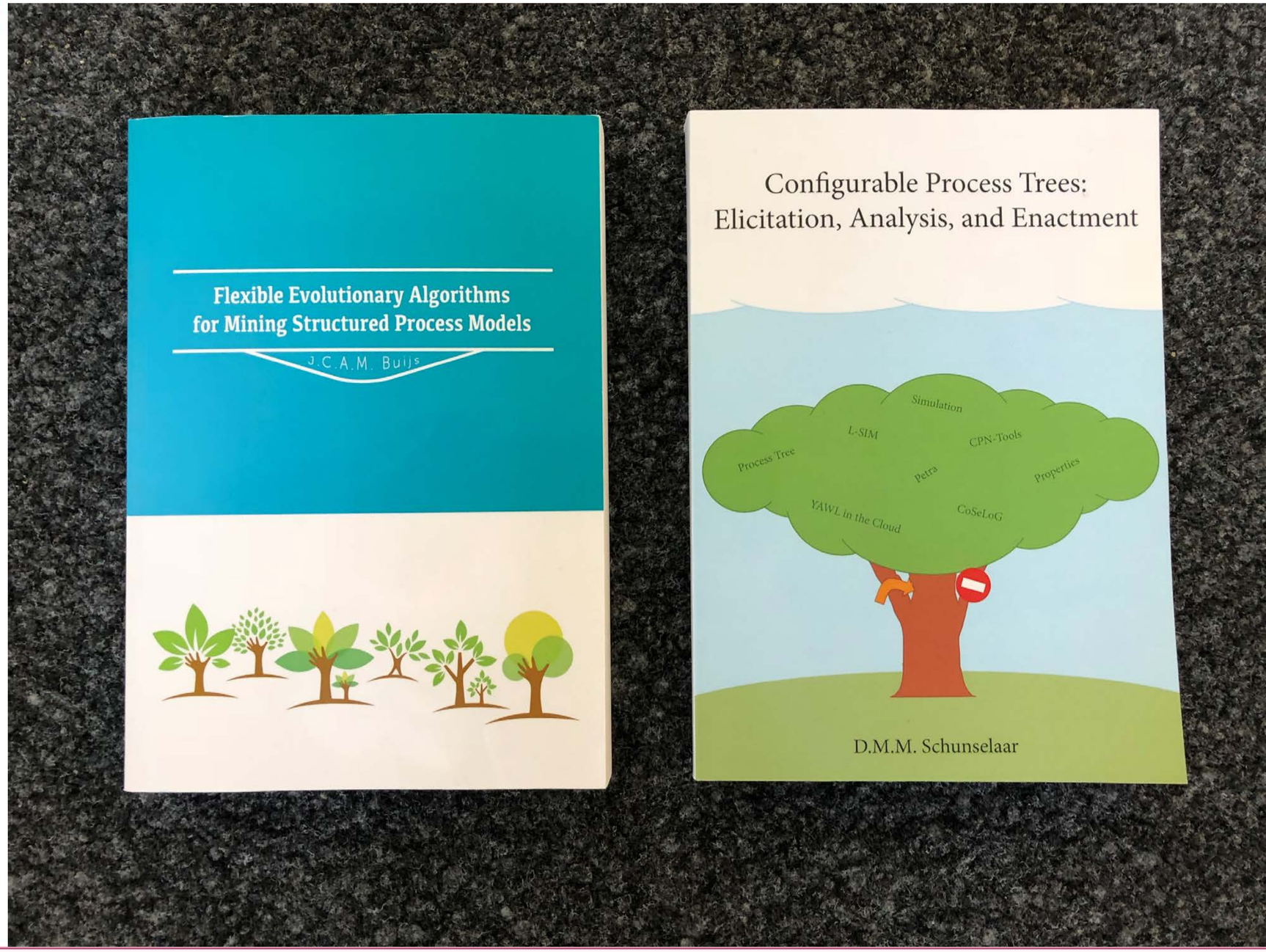
Helen (2012) Carmen (2011)



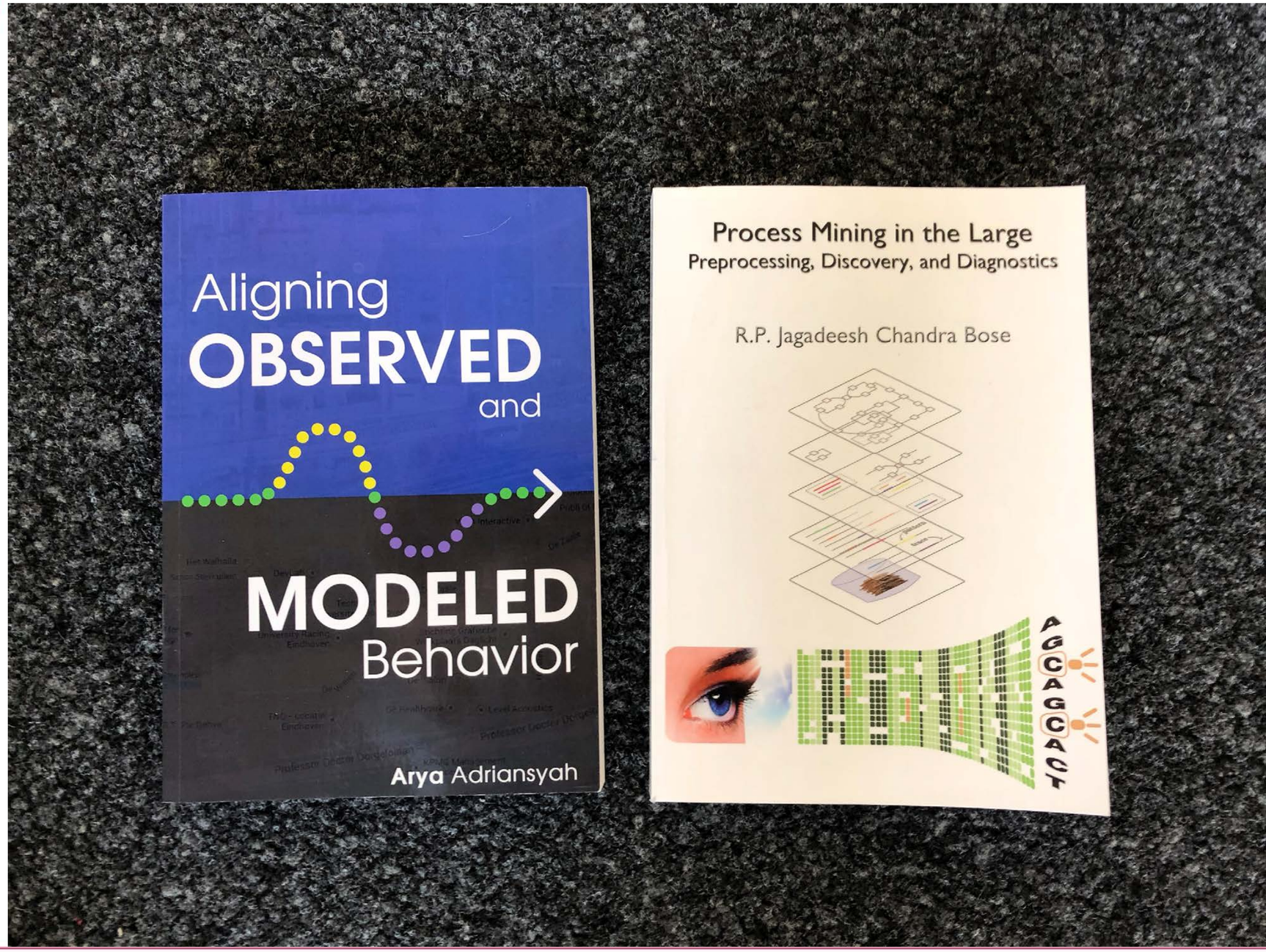
Joyce (2013) Felix (2018)



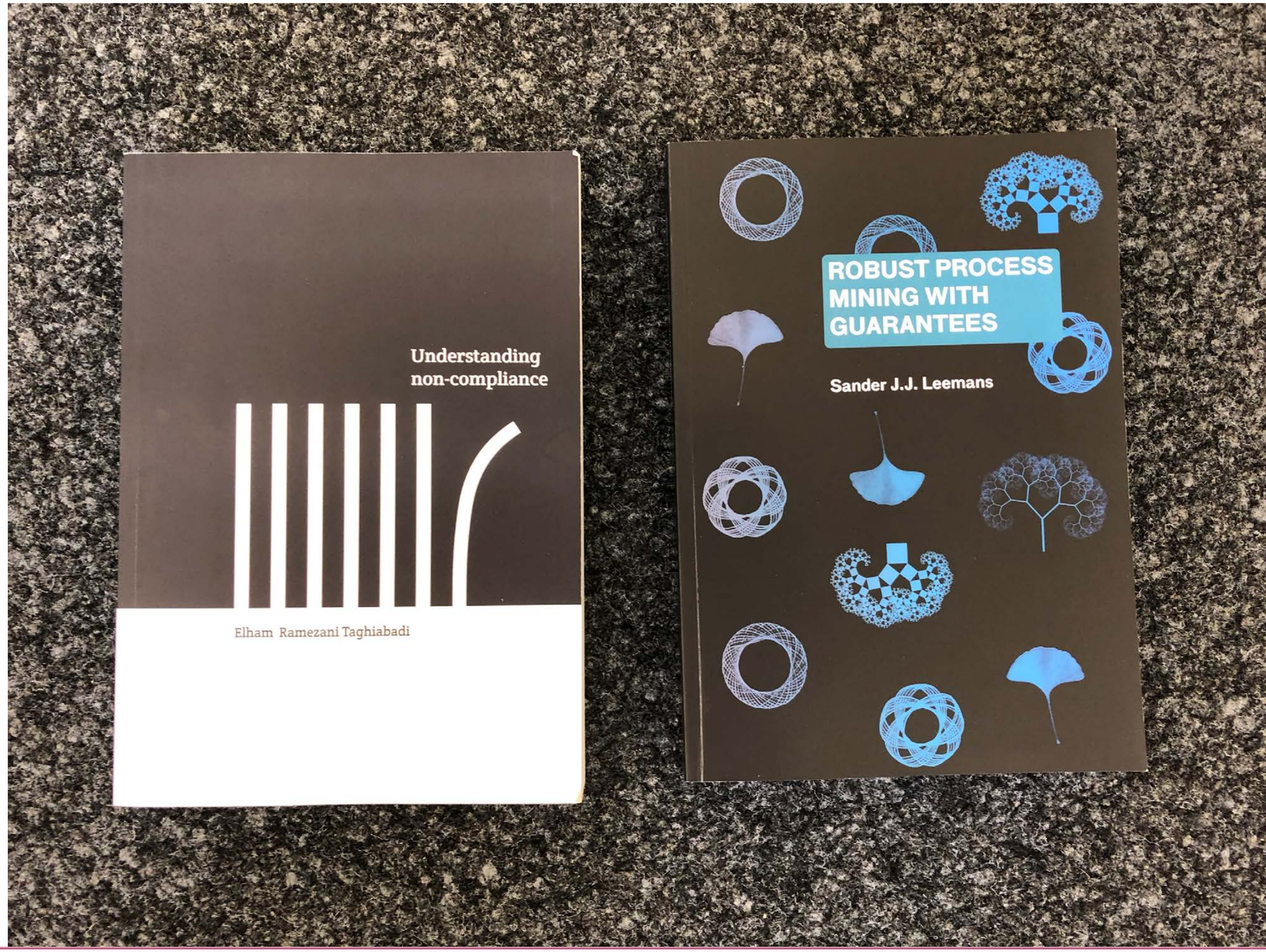
Joos
(2014)
Dennis
(2016)



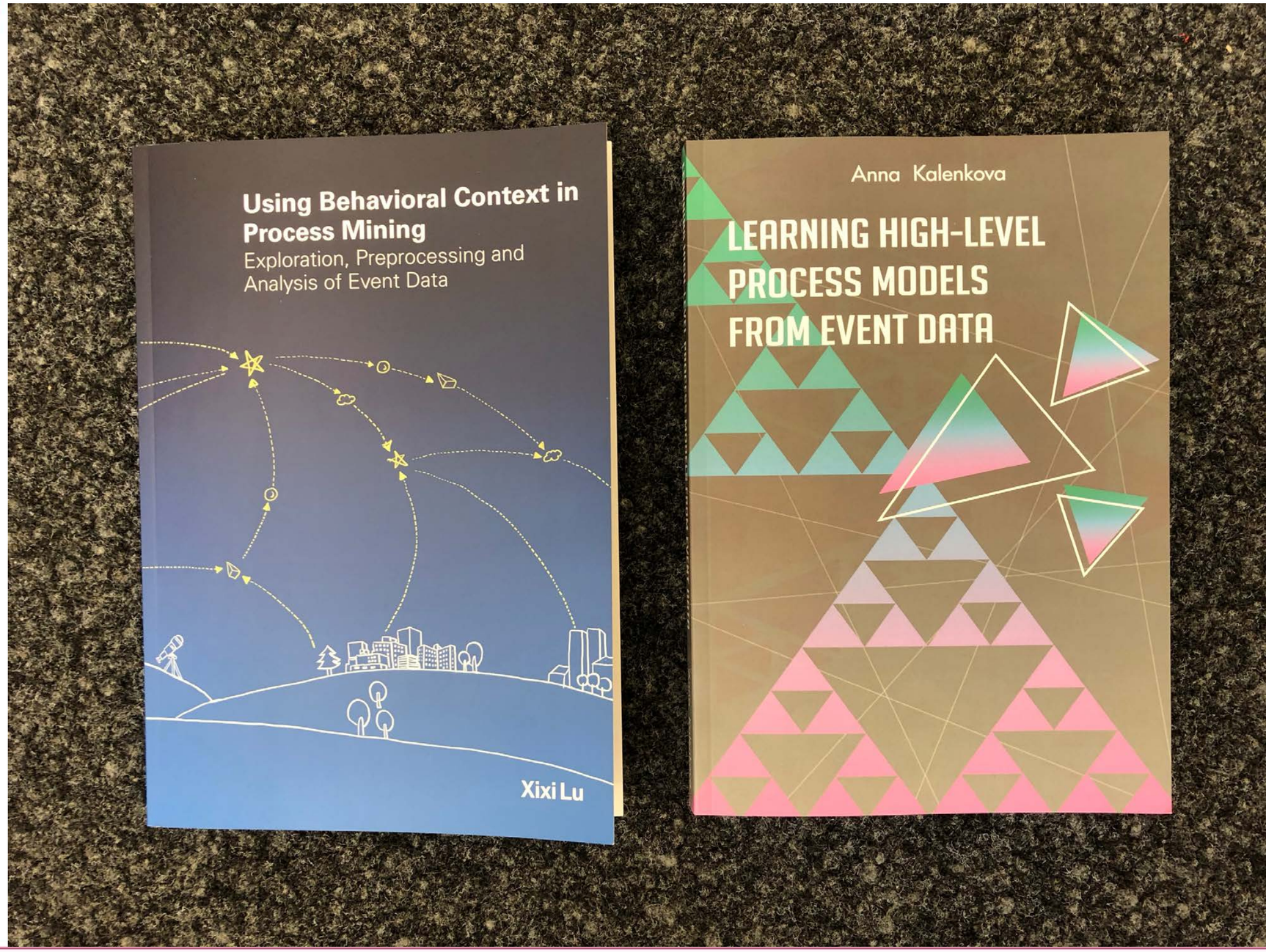
Arya
(2014)
JC
(2012)



Elham (2017) Sander (2017)



Xixi
(2018)
Anna
(2018)



“Nothing is forever” 1984 – 2018

Next in Line

(Alphabetical)

- Alfredo Bolt
- Marcus Dees
- Vadim Denisov
- Alok Dixit
- Maikel van Eck
- Mohammadreza Fani Sani
- Eduardo Gonzalez Lopez de Murillas
- Bart Hompes
- Maikel Leemans
- Guangming Li
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- Petar Markovic
- Alifah Syamsiah
- Niek Tax
- Bas van Zelst

Next in Line

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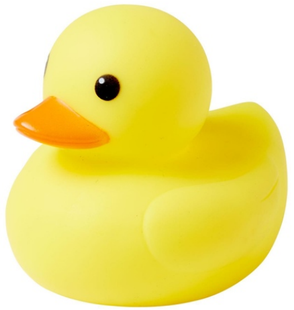

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- Cong Liu
- Petar Markovic
- Alifah Syamsiah
- Niek Tax
- Bas van Zelst

IS & AIS

AIS

- Nour Assy
- Massimiliano de Leoni
- Dirk Fahland
- Marwan Hassani
- Renata de Carvalho
- Natalia Sidorova
- Eric Verbeek
- Wim Nuijten
- Michael Westergaard
- …

IS

- Ton Weijters
- Rob Kusters
- Hans Wortmann
- Theo Bemelmans
- Remco Dijkman
- Irene Vanderfeesten
- Paul Grefen
- Uzay Kaymak
- Henk-Jan Pels
- …

DSC/e

- Jack van Wijk
- Emile Aarts
- Joos Buijs
- Mark Mietus
- Mykola Pechenizkiy
- Geert Jan van Houtum
- Aarnout Brombacher
- Uzay Kaymak
- Alessandro Di Bucchianico
- Patricia Knubben
- Maurice Groten
- + many more (also in JADS)

Why did/do things go so well?

Why did/do things go so well?

TU/e's secret weapon

Veldhoven, Niederlande

Sicher | https://www.google.de/maps/dir/Veldhoven,+Niederlande/50.7763758,6.0675097/@51.0932996,5.4601562,10z/data=!4m10!4m9!1m5!1m1!1s0x...

Apps | Home page | Wil "van der Aalst" - | dblp: Wil M. P. van | Twitter | Wil van der Aalst - | RWTH | TUE | Eschweiler | News etc | Software-Hardware | Trento

Veldhoven, Niederlande

Mein Standort

Reiseziel hinzufügen

OPTIONEN

Wegbeschreibung auf mein Smartphone senden

über N278 — 5 Std. 58 Min. — 115 km

Auf dieser Route liegen gesperrte oder private Straßen.

Diese Route verläuft durch Belgien.

DETAILS

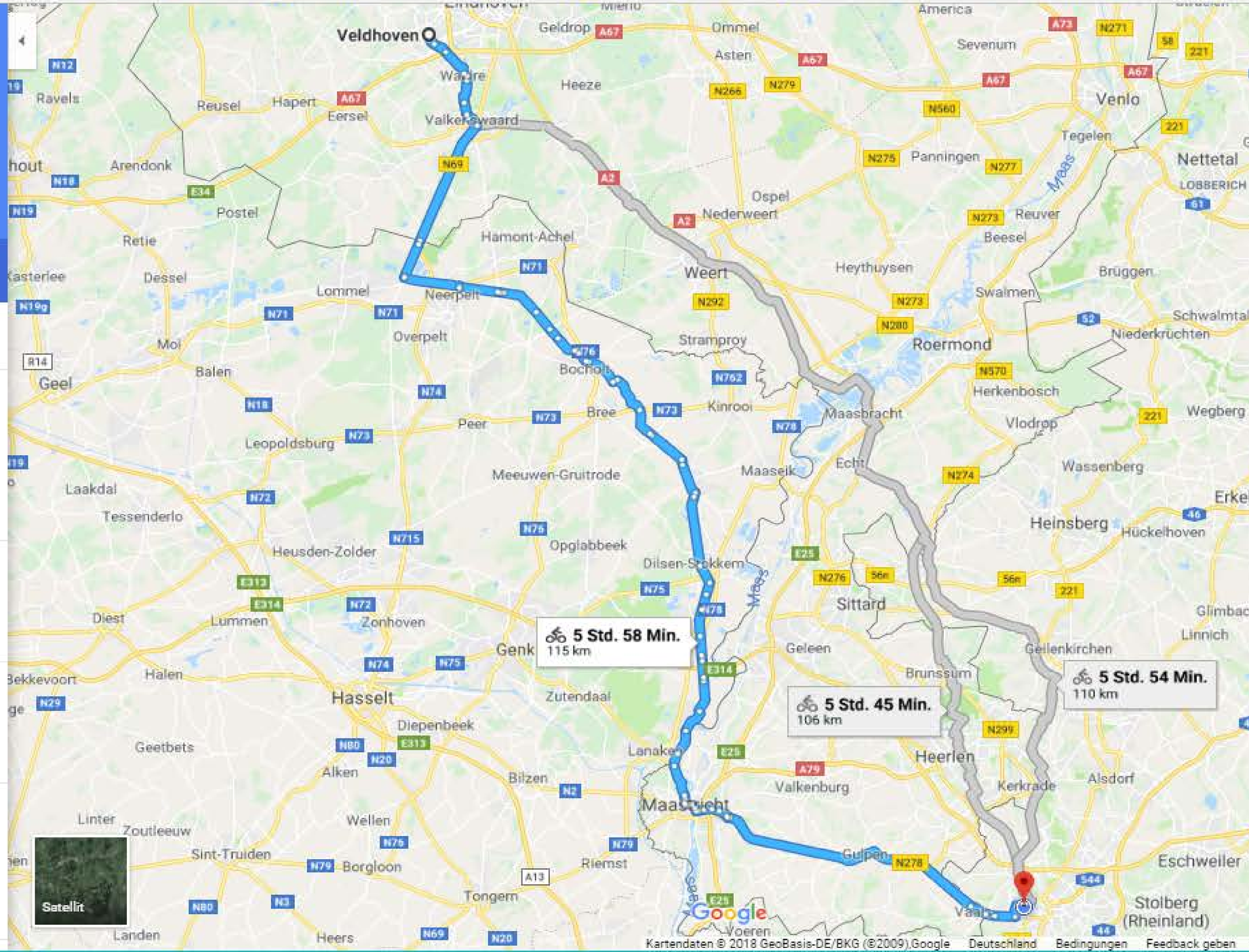
über L410 — 5 Std. 45 Min. — 106 km

Diese Route führt über mehrere Landesgrenzen.

über Roermonder Str. — 5 Std. 54 Min. — 110 km

Diese Route führt über mehrere Landesgrenzen.

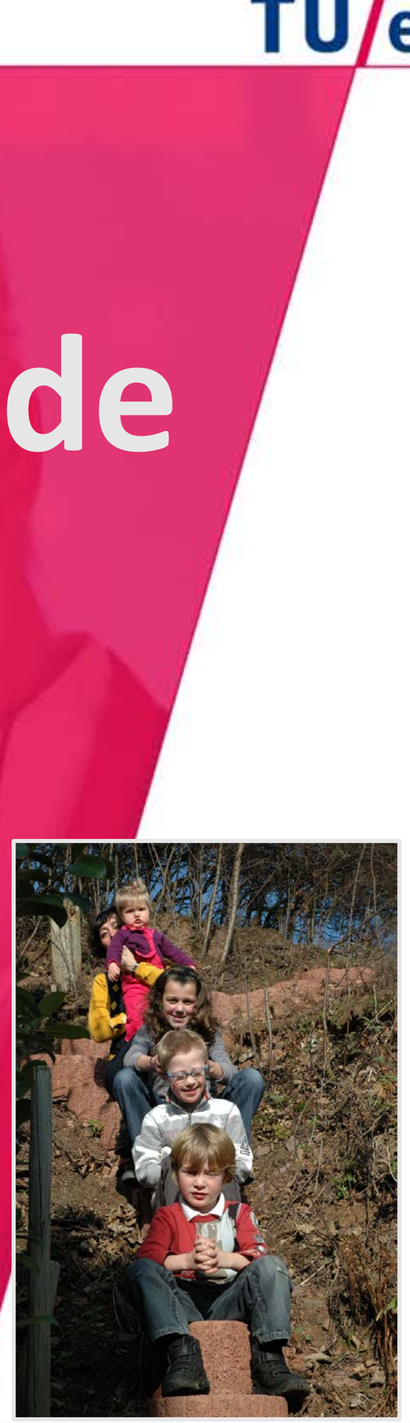
↑ 375 m - ↓ 177 m



To conclude

8-5-2018

To conclude



To conclude

Rifugio
Forcella Pordoi

RWTHAACHEN UNIVERSITY
RWTHAACHEN UNIVERSITY
RWTHAACHEN UNIVERSITY
8-5-2018

Where innovation starts

Thanks!

TU/e Technische Universiteit Eindhoven University of Technology