Curriculum Vitae

Prof.dr. Hend*erik* A. Proper

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1 Details

Titles: Prof. Dr. Initials: H. A. First name: Henderik Surname: Proper Short name: Erik

Date of birth: 22 May, 1967

Nationality: Dutch

E-Mail: henderik.proper@tuwien.ac.at

Website: www.erikproper.eu ORCID: 0000-0002-7318-2496 Mobile: +352-621762041

Office: TU Wien

Favoritenstraße 9-11 A-1040 Vienna

Austria

Home: 52, Cité im Thaelchen

L-6145 Junglinster Luxembourg



2 Career overview

Prof.dr. Hend*erik* A. Proper, Erik for friends, is a Full Professor in Enterprise and Process Engineering in the Business Informatics Group at the TU Wien.

He is the co-author of a wide range of conference publications, chapters in books, journal papers, and books. During his career so-far, he supervised 15 as primary supervisor (promotor), and 4 as co-supervisor (fellow/co-promotor). Over the past ten years, he has regularly provided guest lectures within different MSc programmes offered by the University of Luxembourg (LU), the University of Lorraine (FR), TU Wien (AT), the University of Namur (BE), Antwerp University (BE), and TIAS (NL).

Erik has a mixed background, covering a variety of roles in both academia and industry. His core research drive is the development of theories that work. In other words, Erik focuses on research that leads to results that have both theoretical rigour and practical relevance. His general research interest concerns the foundations and applications of domain modelling. Over the past 20 years, he has applied this research drive and general research interest towards the further development of the field of enterprise engineering, and enterprise modelling in particular. His long experience in teaching and coaching a wide variety of people enables him to involve and engage others in this development. He has co-authored several journal papers, conference publications and books.

Erik received his Master's degree from the University of Nijmegen, The Netherlands in May 1990, and received his PhD (with distinction) from the same University in April 1994. For his Doctoral thesis he developed a theory for conceptual modelling of evolving application domains, yielding a formal specification of evolving information systems.

After receiving his PhD, Erik became a senior research fellow at the Computer Science Department of the University of Queensland, Brisbane, Australia. During that period he also conducted research in the Asymetrix Research Lab at that University for Asymetrix Corp, Seattle, Washington. In 1995 he became a lecturer at the School of Information Systems from the Queensland

University of Technology, Brisbane, Australia. During this period he was also seconded as a senior researcher to the Distributed Systems Technology Centre (DSTC), a Cooperative Research Centre funded by the Australian government.

From 1997 to 2001, Erik worked in industry. First as a consultant at Origin, Amsterdam, The Netherlands, and later as a research consultant and principal scientist at the Ordina Institute for Research and Innovation, Gouda, The Netherlands.

In June 2001, Erik returned to academia, where he became an adjunct Professor at the Radboud University Nijmegen. In September 2002, Erik became a Professor at the Radboud University Nijmegen.

In January of 2008, he went back to combining industry and academia, by combining his Professorship with consulting and innovation at Capgemini, with the aim of more tightly combining his theoretical and practical work. Finally, in May 2010 Erik was awarded an FNR PEARL laureate, resulting in his move to the Luxembourg Institute of Science and Technology in Luxembourg. Until summer 2017, he continued his chair at the Radboud University Nijmegen in the Netherlands, in terms of an Adjunct Professorshop. In June 2017, the latter was also transitioned to Luxembourg in terms of an Adjunct Professorship in Data & Knowledge Engineering at the University of Luxembourg. In September 2018, Erik also became a (regular) Guest Professor at the Vienna University of Technology (TU Wien) in Austria.

As of January 2022, Erik is vice-chair of the IFIP 8.1 working group, while also being the representative for the Netherlands in IFIP's TC8 technical committee. He is also the Stellvertretender Sprecher (vice chair) of the EMISA working group of the German Computer Science Society (Gesellschaft für Informatik), as well as a member of the management team of the Enterprise Engineering Network.

Finally, in January 2023, Erik moved to the Vienna University of Technology (TU Wien) to take up a Full Professorship in Enterprise & Process Engineering within the Business Informatics Group.

3 Research drive and research interests

Erik's core research drive is the development of theories that work. In other words, Erik focuses on research that leads to results that have both theoretical rigour and practical relevance. His general research interest concerns the foundations and applications of domain modelling, including:

- 1. philosophical and linguistic foundations of modelling,
- 2. conceptualisation processes,
- 3. value of modelling, and the return on modelling effort (RoME),
- 4. domain, and purpose, specific modelling languages,
- 5. computer assisted modelling and modelling tools,
- 6. model mining and automatic model (in)validation,
- 7. model-based systems (models as "runtime" artefacts),
- 8. learning & teaching modelling.

In the past he applied this general interest towards the model-based aspects of *information systems* engineering, including:

1. data & information modelling,

- 2. information discovery and information markets,
- 3. cognitive match-making,
- 4. workflow modelling and business process modelling.

Around the turn of the century, he shifted the focus of his work to the model-based aspects of enterprise engineering and architecting, including:

- 1. enterprise (architecture) modelling in general, as well as modelling of specific aspects/concerns, including:
 - (a) business process modelling,
 - (b) business rules,
 - (c) architecture principles,
 - (d) role-based access control,
 - (e) value exchange and value co-creation,
 - (f) design rationale,
- 2. collaborative decision making and collaborative modelling,
- 3. enterprise (design) coherence.

4 Academic education

• **Degree:** PhD Computer science (Cum Laude = with distinction)

Institute: Radboud University, Nijmegen, the Netherlands

Year: 1994

• Degree: MSc Computer Science

Institute: Radboud University, Nijmegen, the Netherlands

Year: 1990

5 Command of languages

Language	Reading	Speaking	Writing
Dutch	Fluent	Fluent	Fluent
English	Fluent	Fluent	Fluent
German	Fluent	Fluent	Good

6 Awards and distinctions

- ullet 2020, nominated "Academic data leader" by CDO Magazine, led by the MIT Sloan School of Management, on my work on conceptual modelling and enterprise modelling.
- 2014, awarded the "NAF penning", by the Netherlands Digital Architecture Forum, recognising my work on Enterprise Architecture.
- 2012, awarded the "IFIP Outstanding Service Award", recognising many years of service to IFIP Working Group 8.1, its associated events, and the wider IFIP community.

- 2010, awarded an FNR PEARL grant of 3.3 M \in
- 1999, awarded the "Best Lecturer Business-Informatics 1998/1999 award" for a lecture series on Software Engineering at the University of Tilburg, the Netherlands.
- 1994, PhD received the "SNS Bank" award.
- 1994, PhD received the predicate Cum Laude (= with distinction) from the Radboud University, Nijmegen, the Netherlands.

7 Employment

• Employer: TU Wien
Function: Full Professor

Period: January 2023 – Present

• Employer: TU Wien Function: Guest Professor

Period: September 2018 – December 2022

• Employer: University of Luxembourg

Function: Adjunct Professor

Period: June 2017 – December 2022

• Employer: Luxembourg Institute of Science and Technology, Luxembourg

Function: Senior Research Manager Period: May 2010 – December 2022

• Employer: Radboud University, Nijmegen, the Netherlands

Function: Adjunct Professor

Period: January 2008 – January 2018

• Employer: Capgemini, Utrecht, the Netherlands

Function: Principal Consultant
Period: January 2008 – April 2010

• Employer: Radboud University, Nijmegen, the Netherlands

Function: Full-time Professor

Period: June 2001 – December 2007

• Employer: Ordina Institute, Gouda, the Netherlands

Function: Partner & Principal Scientist
Period: June 1998 – August 2001

• Employer: Origin, Amsterdam, the Netherlands

Function: Architect/Consultant Period: June 1997 – June 1998

• Employer: Distributed Systems Technology Centre (DSTC), Brisbane, Australia

Function: Researcher, seconded from

Queensland University of Technology, Brisbane, Australia

Period: October 1995 – June 1997

• Employer: Queensland University of Technology, Brisbane, Australia

Function: Lecturer

Period: October 1995 – June 1997

Employer: Asymetrix, Bellevue, Washington, USA

Function: Research consultant

Period: June 1994 - February 1995

University of Queensland, Brisbane, Australia Employer:

Function: Senior research fellow Period: May 1994 - October 1995

Employer: Radboud University, Nijmegen, the Netherlands

Function: Junior researcher (AIO) Period: May 1990 - May 1994

Employer: HAN University, Arnhem, the Netherlands

Function: Part-time lecturer

Period: September 1992 – December 1993

Employer: Radboud University, Nijmegen, the Netherlands

Function: Several tutorships

Period: September 1991 – June 1994

8 Research funding

Name: CoBALab – Collaborative Business Analytics Laboratory

Source: FNR, Luxembourg

Size: Awarded funding: 400 K€. This project involves a collaboration between the

> National University of Singapore and Luxembourg Institute of Science and Technology, Luxembourg. The project, funded by the FNR, involved 3 fully funded

PostDoc positions for two years, as well as an additional mobility grant.

Role: Main applicant

Year: 2016

Name: An Integrative Design Framework for Business Innovation

Source: FNR, Luxembourg

Size: Awarded funding: 56 K€. A Mobility grant to support multiple (long-stay)

research vists by Prof. Dr. Eng Chew from the University of Technology Sydney.

Role: Co-applicant

Year: 2014

Name: ValCoLa – Value Co-creation Language

Source: FNR, Luxembourg

Awarded funding: 1248 K€. This project involves a collaboration between the Size:

University of St. Gallen in Switzerland and Luxembourg Institute of Science and Technology, Luxembourg. The Luxembourg side of the project, funded by the

FNR, involves 2 PostDocs and 1 Research Engineer for four years.

Role: Main applicant

Year: 2014

Name: RationalArchitecture Source: FNR, Luxembourg

Size: Awarded funding: 750 K€. This project involves a collaboration between the

> University of Luxembourg and Luxembourg Institute of Science and Technology, Luxembourg. The project, funded by the FNR, involved 2 PhD students and 1

PostDoc.

Role: Main applicant

Year: 2012 • Name: ACET – Architectural Coordination of Enterprise Transformations

Source: FNR, Luxembourg

Size: Awarded funding: 934 K€This project involves a collaboration between the

University of St. Gallen in Switzerland and Luxembourg Institute of Science and Technology, Luxembourg. The Luxembourg side of the project, funded by the FNR, involved 2 PhD students, 2 PostDocs and 1 Research Engineer for

three years.

Role: Main applicant

Year: 2011

• Name: ASD – Agile Service Development

Source: Ministry of Economic Affairs, the Netherlands

Size: Awarded funding: 100 K€. This project was a follow up of the original Archi-

Mate project, and included next to LIST, Luxembourg, the following partners from the Netherlands: Be Informed, BiZZdesign, Everest, HU University of Applied Sciences Utrecht, IBM, Novay, O&i, PGGM, RuleManagement Group, Radboud University Nijmegen, TNO, Twente University, Utrecht University, and Voogd & Voogd. Funding was provided by the Dutch Government, and

involved 1 PostDoc position at the LIST side for a year.

Role: Co-applicant

Year: 2010

Name: ASINE – Architecture-based Service Innovation in Networked Enterprises

Source: FNR Luxembourg

Size: Awarded funding: 3300 K€ This is a PEARL project, involving 4 PhD students,

2 PostDocs, 2 Research Engineers, and 1 Research Manager for a five year period.

Role: Main applicant

Year: 2010

• Name: Strengthening ICT Training and Research Capacity in the Public Universities

in Uganda

Source: Nuffic

Size: This project involves 30 PhD students, of which 15 were planned to obtain PhD's

at Universities in the Netherlands.

Role: Co-applicant

Year: 2007

• Name: Building a Sustainable ICT Training Capacity in the Public Universities in

Uganda

Source: Nuffic

Size: This project involved 6 PhD students and 28 MSc students, where all students

did do their respective degrees in the Netherlands

Role: Co-applicant

Year: 2005

• Name: ArchiMate

Source: Dutch Ministry of Economic Affairs

Size: Consortium involving ABN-AMRO, ABP, CWI, Dutch Tax Office, Ordina, Lei-

den University, Radboud Universityand the Telematics Institute. The project

ran for two years, and had an overall budget of 4500 K€.

Role: Initiator and co-applicant

Year: 2002

• Name: PRONIR – Profile based retrieval of networked information resources

Source: Netherlands Organisation for Scientific Research

Size: This project involved two PhD Students and a Scientific Programmer, and was

a collaboration between the University of Tilburg and the Radboud University

Role: Main applicant

Year: 2001

• Name: Seeding Grant – Indexing Mechanisms for Information Discovery

Source: Queensland University of Technology

Size: AU\$ 7,000 Role: Main applicant

Year: 1996

9 Academic leadership

• 2021, chair of the assessment committee of a PhD defence, involving a cotutelle Université Paris-Saclay and the University of Luxembourg.

- 2016 2018, Head of Academic Affairs, Luxembourg Institute of Science and Technology, Luxembourg.
- 2017, member of theassessment committee for a position as Associate professor, Norwegian University of Science and Technology (NTNU), Norway.
- 2014, member of theassessment committee for a promotion to Associate Professor at the KTH (Royal Institute of Technology), Stockholm, Sweden.
- 2013, member of theassessment committee of Research & Collaboration, University of Skövde, Skövde, Sweden.
- 2011, member of theassessment committee for a promotion to Associate Professor at the KTH (Royal Institute of Technology), Stockholm, Sweden.
- 2010, member of theassessment committee for a promotion to Senior Lecturer, at the Faculty of Engineering Sciences Ben-Gurion University of the Negev, Israel.
- 2009, member of theassessment committee for a promotion to Full Professor at the KTH (Royal Institute of Technology), Stockholm, Sweden.
- 2007, member of the advisory board for the appointment of a Lecturer position within the Security of Systems group, Radboud University, Nijmegen, the Netherlands.
- 2004, member of the advisory board for the appointment of a Lecturer position within the Security of Systems group, Radboud University, Nijmegen, the Netherlands.
- 2004, member of the advisory board for the appointment of a Lecturer position within the Information Retrieval and Information Systems group, Radboud University, Nijmegen, the Netherlands.
- 2002, member of the advisory board for the appointment of an Associate Professor within the Information Retrieval and Information Systems group, Radboud University, Nijmegen, the Netherlands.
- 2002, member of the advisory board for the appointment of an Associate Professor within the Software Technology group, Radboud University, Nijmegen, the Netherlands.

10 Supervision of students

- More than forty Master Thesis projects as principal supervisor.
- More than five Bachelor Thesis as a principal supervisor.
- Primary supervisor for PhD Thesis:
 - 1. M. Mulder, Enabling the automatic verification and exchange of DEMO models, 2021, Radboud University, Nijmegen, the Netherlands.
 - 2. Y. Bobbert, *Improving the Maturity of Business Information Security*, 2018, Radboud University, Nijmegen, the Netherlands.
 - 3. M. Bjeković, Pragmatics of Enterprise Modelling Languages: A Framework for Understanding and Explaining, 2018, Radboud University, Nijmegen, the Netherlands.
 - 4. G. Plataniotis, EA Anamnesis A Conceptual Framework for Enterprise Architecture Rationalization, 2017, Radboud University, Nijmegen, the Netherlands.
 - 5. R. Ettema, Using triangulation in Lean Six Sigma to explain quality problems An enterprise engineering perspective, 2016, Radboud University, Nijmegen, the Netherlands.
 - 6. H. Faller, Organisational Subcultures and Enterprise Architecture Effectiveness: an Explanatory Theory, 2016, Radboud University, Nijmegen, the Netherlands.
 - 7. D. van der Linden, Personal semantics of meta-concepts in conceptual modelling languages, 2015, Radboud University, Nijmegen, the Netherlands.
 - 8. F. Tulinayo, Combining System Dynamics with a Domain Modelling Method, 2014, Radboud University, Nijmegen, the Netherlands.
 - 9. R. Wagter, Ordina, *Enterprise Coherence*, 2013, Radboud University, Nijmegen, the Netherlands.
 - 10. D. Ssebuggwawo, Analysis and Evaluation of Modelling Processes, 2012, Radboud University, Nijmegen, the Netherlands.
 - 11. A. Nakakawa, A Collaborative Process for Enterprise Architecture Creation, 2012, Radboud University, Nijmegen, the Netherlands.
 - 12. S. Overbeek, E-Office, *Bridging Supply and Demand for Knowledge Intensive Tasks*, 2009, Radboud University, Nijmegen, the Netherlands.
 - 13. J. Nabukenya, *Improving the Quality of Organisational Policy Making using Collabo*ration Engineering, 2009, Radboud University, Nijmegen, the Netherlands.
 - 14. B. van Gils, Aptness on the Web, 2006, Radboud University, Nijmegen, the Netherlands.
 - 15. S. J. B. A. Hoppenbrouwers, Freezing Language Conceptualisation Processes across ICT-Supported Organisations, 2004, Radboud University, Nijmegen, the Netherlands.

• Co-supervisor for PhD Thesis:

- 1. M. Borgers, Are Architecture Principles Effective, 2021, University of Maastricht, Maastricht, the Netherlands.
- 2. I. Wilmont, Cognitive Aspects of Conceptual Modelling, 2020, Radboud University, Nijmegen, the Netherlands.
- 3. M. Blaschke Analysis and Design of Digital Value Co-creation Networks: Insights from Digital Platforms, 2020, University of St. Gallen, St. Gallen, Switzerland.
- 4. K. Leune, Access Control and Service-Oriented Architectures, 2007, Tilburg University, Tilburg, the Netherlands.
- Associate-supervisor for PhD Thesis:

- 1. A. P. Barros, Conceptual Workflow Modelling, University of Queensland, Brisbane, Australia, 1998.
- 2. L. J. Bird-Campbell, Data reverse engineering: From a relational database system to a three-dimensional conceptual schema, University of Queensland, Brisbane, Australia, 1997.

11 Reviewing

11.1 General

- \bullet > 40 MSc. and Bsc. Thesis.
- > 15 PhD Thesis.
- Two Habilitation Thesis:
 - 2018, Dr. Robert Pergl, Technical University Prague, Czech Republic.
 - 2014, Dr. Stephan Aier, University of St. Gallen, Switzerland.
- Reviewer of project proposals to e.g. the Dutch Research Council, the Belgian Research Foundation, and the Natural Sciences and Engineering Research Council of Canada.

11.2 Conferences and workshops

Regular PC memberships of:

- 2019 present, VENMO Value and Quality of Enterprise Modelling
- 2018 present, Modellierung 2018
- 2012 present, ECIS European Conference on Information Systems (ECIS)
- 2012 present, iWI International Conference on Wirtschaftsinformatik
- 2012 present, VMBO Value Modelling and Business Ontology
- 2012 present, EI2N Enterprise Integration, Interoperability and Networking
- 2011 present, BITA Workshop on Business and IT Alignment
- 2011 present, CBI IEEE Conference on Business Informatics
- 2011 present, EDOC IEEE Enterprise Computing Conference
- 2011 present, RCIS International Conference on Research Challenges in Information Science
- 2011 present, SoEA4EE Workshop on Service oriented Enterprise Architecture for Enterprise Engineering
- 2010 present, ER International Conference on Conceptual Modelling
- 2008 present, EEWC Enterprise Engineering Working Conference (formerly CIAO! workshop)
- 2008 present, EEWC-DC EEWC Doctoral Consortium (formerly CIAO! Doctoral Consortium)

- 2007 present, CAiSE International Conference on Advanced Information Systems Engineering
- 2007 present, EMISA Enterprise Modelling and Information Systems Architectures workshop
- 2006 present, EMMSAD Exploring Modelling Methods in Systems Analysis and Design workshop
- 2005 present, FBM Fact-Based Modelling (formerly ORM workshop on Object-Role Modelling) workshop
- 2008 present, PoEM Practise of Enterprise Modelling working conference
- 2006 2020, TEAR Workshop on Trends in Enterprise Architecture Research
- 2012 2016, BPMS2 Workshop on Social and Human Aspects of Business Process Management
- 2010 2014, DESRIST DEsign Science Research in Information Systems and Technology conference
- 2009 2013, PRET Practice-driven Research on Enterprise Transformation working conference
- 2000 2004, The National Architecture Congres (Landelijk Architectuurcongres
- 1999 2011, ECDM The Bi-Annual International Workshop on Evolution and Change in Data Management

Further PC memberships include:

- 2021, SISFAI
- 2021, *ODCM-DT*
- 2021, *VORTE*
- 2021, BITA
- 2019, *ICIST*
- 2019, IDEA
- 2019, BPM Business Process Management Conference
- 2019, S-BPM ONE
- 2018, BIR
- 2016, ES
- 2015, CoBI
- 2015, ES
- \bullet 2015, ICIST
- 2015, S-BPM ONE
- 2014, CoBI

- 2014, MKWI
- 2014, MCIS
- 2014, QMMQ
- 2014, WEETM
- 2013, AMINO workshop
- 2013, CAiSE conference, Doctoral Consortium
- 2013, CAIW
- 2013, MeDMoT
- 2013, YAWL
- 2012, EIS
- 2012, MCIS
- ullet 2012, MeDMoT
- 2012, MGC
- 2011, EIS
- 2011, IEEE CloudCom
- 2011, ME
- 2011, SOCA
- 2010, CRIWG
- 2010, HICCS
- 2010, PEAM
- 2009, CAiSE conference, Doctoral Consortium
- 2009, LAP Language Action Perspective working conference
- 2008, ECMD
- 2008, ISREP
- 2008, ReMoD
- 2008, SIGSAND-EUROPE
- 2007, PhiCoMo
- 2007, SME IFIP WG8.1 Working Conference on Situational Method Engineering: Fundamentals and Experiences
- 2006, ACDM workshop
- 2006, ACDM
- 2006, IFIP International Conference on The past and future of Information Systems: 1976-2006
- 2000, ADL International conference on Advances in Digital Libraries

11.3 Journals

Numerous papers submitted to journals, such as:

- Business Information Systems Engineering (Wirtschaftsinformatik)
- Computer Journal
- Enterprise Information Systems
- Enterprise Modelling and Information Systems Architectures
- Data & Knowledge Engineering
- IEEE Transactions on Data & Knowledge Engineering
- Innovations in Systems and Software Engineering
- Information Systems (Pergamon)
- Information Systems and e-Business Management
- International Journal of Cooperative Information Systems
- International Journal of Information System Modelling and Design
- International Journal on Concurrent Engineering Research and Applications.
- Journal of Interaction Science
- Journal of Strategic Information Systems
- Software and Systems Journal

12 Organising committee and editorships

12.1 Co-chairing of conferences and workshops

- 2022, industry co-chair of the ER International Conference on Conceptual Modeling.
- 2021, co-chair of the: EEWC Enterprise Engineering Working Conference.
- 2021, co-chair of the: TEAR Trends in Enterprise Architecture Research workshop.
- 2021, general co-chair of the: IEEE CBI Conference on Business Informatics.
- 2020, workshops co-chair of the: CAiSE Conference on advanced Information Systems Engineering.
- 2020, General co-chair of the: IEEE CBI Conference on Business Informatics.
- 2020, co-chair of the: EEWC Enterprise Engineering Working Conference.
- 2019, workshops co-chair of the: CAiSE Conference on advanced Information Systems Engineering.
- 2019, general chair of the: PoEM Practice of Enterprise Modelling working conference.
- 2018, co-chair of a track at the ECIS European Conference on Information Systems.

- 2018, programme committee co-chair of the: CoopIS Cooperative Information Systems conference.
- 2018, programme committee co-chair of the: IEEE CBI Conference on Business Informatics
- 2018, co-chair of the: EEWC Enterprise Engineering Working Conference.
- 2017, co-chair of the: EEWC Enterprise Engineering Working Conference.
- 2015, co-chair of a track on enterprise transformation at the ECIS European Conference on Information Systems.
- 2014, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2014, programme committee co-chair of the: *IEEE CBI Conference on Business Informatics*.
- 2013, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2013, co-chair of a track on enterprise transformation at the ECIS European Conference on Information Systems.
- 2013, co-chair of the PRET Working conference on Practice-driven Research on Enterprise Transformations.
- 2012, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2012, co-chair of a track on enterprise transformation at the ECIS European Conference on Information Systems.
- 2012, co-chair of the TEAR Trends in Enterprise Architecture Research workshop.
- 2011, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2011, co-chair of the PRET Working conference on Practice-driven Research on Enterprise Transformations.
- 2011, programme committee co-chair of the CEC Conference on Commerce and Enterprise Computing.
- 2010, co-chair of the CAiSE-Forum Forum of the Conference on advanced Information Systems Engineering.
- 2010, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2010, general chair of the Enterprise Engineering Week, a week bringing together three events related to enterprise engineering: the PoEM working conference, PRET working conference and TEAR workshop.
- 2010, co-chair of a track on enterprise transformation at the ECIS European Conference on Information Systems.
- 2010, co-chair of the PRET Working conference on Practice-driven Research on Enterprise Transformations.

- 2010, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2010, co-chair of the TEAR Trends in Enterprise Architecture Research workshop.
- 2009, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2009, co-chair of the PRET Working conference on Practice-driven Research on Enterprise Transformations.
- 2008, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2007, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2006, chair of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2001, chairman of the: The Ordina Round Table Conference on Knowledge Management for Flexible Project Teams, Echteld, the Netherlands.
- 2001, organising committee member of the: First Component Based Software Day, CWI, Amsterdam, the Netherlands.
- 2000, chairman of the: The OrdinaRound Table Conference on Business-ICT alignment, Echteld, the Netherlands.

12.2 Steering & advisory committees

- 2015 present, advisory committee member of the EMMSAD Exploring Modelling Methods for Systems Analysis and Design working conference.
- 2011 present, steering committee member of the *IEEE CBI Conference on Business Informatics*.
- 2010 present, steering committee member of the TEAR Trends in Enterprise Architecture Research workshop.
- 2015 present, advisory board member of the *EEWC Enterprise Engineering Working Conference*.

12.3 Editorships

Associate Editor of:

- 2013 present, International Journal on Multidisciplinary Approaches to Innovation (IJ-MAI).
- 2012 present, Business Information Systems Engineering (Wirtschaftsinformatik) Journal.
- 2009 present, International Journal of Information System Modelling and Design.
- 2006 present, Enterprise Modelling and Information Systems Architectures (EMISA) Journal.
- 2001 present, International Journal of Cooperative Information Systems, World Scientific.

- 2002 2013, Data & Knowledge Engineering, North-Holland/Elsevier-Science.
- 2006 2010, Via Nova Architectura, on-line journal, http://www.via-nova-architectura.org.

Editor of:

- 2008 present, series (founding) co-editor in chief of Springer's Enterprise Engineering series.
- 2016 2019, Journal of Organisational Design & Enterprise Engineering (OD&EE).
- 2008, a special issue of Enterprise Modelling and Information Systems Architectures focussing on Enterprise Architecture.

13 Membership of professional organisations

- Association for Computing Machinery (ACM)
- Gesellschaft für Informatik (GI)
- Deutscher Hochschulverband (DHV)
- International Federation of Information Processing (IFIP) 8.1 working group.

14 Keynotes

- 2021, Enterprises as model-driven systems, delivered at the International Information Management Association (IIMA) Conference 2021, Utrecht, the Netherlands.
- 2020, Enterprise Systems Architectures Essentials, delivered at the International Joint Conference on e-Business and Telecommunications (ICETE), Lieusaint, Paris, France.
- 2019, Enterprise modelling in the digital age: Challenges and opportunities, delivered at the SoEA4EE workshop at the IEEE EDOC conference, Paris, France.
- 2017, Subject-oriented Modelling for Smart Systems, delivered at the S-BPM ONE, Darmstadt, Germany.
- 2017, Organisational Design & Enterprise Engineering: Two sides of the same coin?, delivered at the Innovations in Software Engineering Conference (ISEC), Jaipur, India.
- 2017, Integrated Modelling Landscapes: What is realistic?, delivered at the Modelling Symposium (ModSym), Jaipur, India.
- 2015, Model-enabled design in organisations, delivered at the INFORSID, Biaritz, France.
- 2015, Enterprise Engineering Informed steering of enterprises in motion, delivered at the Annual Conference of the Associação Portuguesa de Sistemas de Informação (CAPSI), Lisbon, Portugal.
- 2014, Understanding EE modelling-landscapes, delivered at the Business Modelling and Software Design (BMSD), Kirchberg, Luxembourg.
- 2014, Enterprise Architecture and Process Improvement; How one may learn from the other, delivered at the EuroSPI, Kirchberg, Luzembourg.

- 2013, Enterprise Service Innovation, delivered at the International Conference on Enterprise Information Systems (ICEIS), Angers, France.
- 2012, Enterprise Service Innovation, delivered at the IBM Big Data Analytics Day, Frankfurt, Germany.
- 2012, Enterprise Architecture A guided tour between theory and practice, delivered at the Enterprise Architecture Symposium, Stockholm, Sweden.
- 2012, Engineering & Emergence in Enterprises A story of 4 Es, delivered at the Enterprise Engineering Working Conference (EEWC), Kirchberg, Luxembourg.
- 2011, Principles in an Enterprise Architecture Context, delivered at the The Open Group Conference, Amsterdam, the Netherlands.
- 2010, Architectures for Service Innovation, delivered at the The Open Group Conference, Rome, Italy.
- 2009, DEMO en Archimate, delivered at the EAM Congres, Zeist, the Netherlands.
- 2009, Clouds in an architecture perspective, delivered at the CIO Network, Utrecht, the Netherlands.
- 2009, Business Rules & Enterprise Modelling, delivered at the Business Rules Conference, Utrecht, the Netherlands.
- 2008, Quality in Model-driven, delivered at the VVSS, Eindhoven, the Netherlands.
- 2006, What is SoA?, delivered at the EuroForum 2006, Utrecht, the Netherlands.
- 2004, Informatiekunde; Exacte Vaagheid, delivered at the SIGCHI Dutch Chapter, Utrecht, the Netherlands.
- 2003, Sturen door Inzicht, delivered at the ICT Kenniscongres, Den Haag, the Netherlands.
- 2002, Should we stop acting like control freaks?, delivered at the Dutch Component Based Development workshop, Den Haag, the Netherlands.
- 2001, ActorWeb Towards a deeper understanding of system architectures, delivered at the ICT Kenniscongres, Den Haag, the Netherlands.

15 Taught courses & lectures

• **Title:** Enterprise Architecture

Period: 2018 – Present

Format: A 3ec course in a Master of Business Informatics

Organisation: TU Wien, Austria

• **Title:** Architecture and Business Strategy

Period: 2011 – Present

Format: A 3ec course in a Master in Information System Security Management

Organisation: University of Luxembourg, Luxembourg

Title: Strategic Alignment and Business Modelling

Period: 2011 – Present

Format: A 3ec course in a Master in Informatics Methods Applied to Business

Management

Organisation: University of Lorraine, France

• Title: Methods and Models for the Strategic Alignment of Business and IT

Period: 2018 – Present

Format: A 5ec course in a Master of Computer Science

Organisation: University of Namur, Belgium

• Title: Enterprise Architecture with ArchiMate & Friends

Period: 2019 – Present

Format: A two-day lecture in an Executive Master in Enterprise IT Architecture

Organisation: University of Antwerp, Belgium

• Title: Introduction to Enterprise Architecture

Period: 2011 – Present

Format: A one day lecture block in a Master on Information Management

Organisation: TiasNimbas Business School, the Netherlands

• Title: Enterprise Architecture Frameworks

Period: 2011 – 2019

Format: A one-day lecture in an Executive Master in Enterprise IT Architecture

Organisation: University of Antwerp, Belgium

• Title: Enterprise Architecture

Period: 2011 – 2014

Format: A two day lecture block in a Master on IT Governance

Organisation: Luxembourg Institute of Science and Technology, Luxembourg, Luxem-

bourg

• Title: Business Service Innovation

Period: 2014 – 2016

Format: A quarter course in a Master of Business Informatics

Organisation: Radboud University, Nijmegen, the Netherlands, Luxembourg

• Title: Digital Enterprise Engineering

Period: 2014

Format: A two day PhD Course on Digital Enterprise Engineering

Organisation: University of Jyväskylä, Helsinki, Finland

• Title: Enterprise Architecture and Service Innovation

Period: 2012 – 2014

Format: A two day lecture block in a Master on IT and Innovation

Organisation: TU Wien, Austria

• Title: Architecture Principles and IT Governance

Period: Spring 2013

Format: A one day lecture block in an Executive Master on Enterprise Architec-

ture

Organisation: TiasNimbas Business School, The Netherlands

• Title: Overview of TOGAF

Period: Spring 2010
Format: Two day workshop

Organisation: Cappemini, Utrecht, the Netherlands

• Title: TOGAF 9

Period: Fall 2009, Spring 2010

Format: Four course

Organisation: Cappemini, Utrecht, the Netherlands

• Title: ArchiMate

Period: Summer 2009, Fall 2009, Spring 2010

Format: Two day course

Organisation: Cappemini, Utrecht, the Netherlands

• Title: TOGAF 8

Period: Fall 2008, Summer 2009

Format: Four course

Organisation: Cappemini, Utrecht, the Netherlands

• Title: Information Architecture

Period: Fall 2009

Format: Series of eight lectures

Organisation: Radboud University, Nijmegen, the Netherlands

Period: Business Rules 2007 – 2009

Format: Series of sixteen lectures

Organisation: Radboud University, Nijmegen, the Netherlands

Period: Business Architecture Spring 2008, Spring 2009

Format: Three half-a day lecture blocks in an Executive Master on Enterprise

Architecture: "Master of Architecture in the Digital World"

Organisation: A collaboration between:

ABK, Radboud University, Nijmegen, the Netherlands
 ICIS, Radboud University, Nijmegen, the Netherlands

3. Capgemini, Utrecht, the Netherlands

• **Title:** Introduction to Enterprise Architecture

Period: Spring 2005, Spring 2006, Fall 2007, Fall 2008

Format: Four half-a-day lecture blocks in an Executive Master on Enterprise Ar-

chitecture "Master of Architecture in the Digital World"

Organisation: A collaboration between:

ABK, Radboud University, Nijmegen, the Netherlands
 ICIS, Radboud University, Nijmegen, the Netherlands

3. Capgemini, Utrecht, the Netherlands

• Title: Introduction to Enterprise Architecture

Period: Fall 2006, Fall 2007, Fall 2008 Format: Series of sixteen lectures

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: Enterprise Modelling

Period: Spring 2004, 2005, 2006, 2007, 2008

Format: Series of sixteen lectures as part of a Bachelor of Information Systems

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: System Theory – Structure & Coordination

Period: Spring 2004, 2005 Format: Series of eight lectures

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: System Theory – Definition & Design

Period: Spring 2005

Format: Series of eight lectures

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: Data & Information Modelling

Period: September 2002, 2003

Format: Two week course, of eight full-days

Organisation: Uganda Martyrs University, Nkozi, Uganda

• Title: Domain Modelling

Period: 2002

Format: Two day course

Organisation: Akzo Nobel, Arnhem, The Netherlands

• Title: Architecture of Information Systems 1

Period: Fall 2002

Format: Series of 12 lectures

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: Architecture & Alignment

Period: Spring 2002, 2003 Format: Series of 12 lectures

Organisation: Radboud University, Nijmegen, the Netherlands

• **Title:** Software Engineering – 4

Period: Fall 2001

Format: Series of 12 lectures

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: Masterclass KM

Period: Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003

Format: Two full day modules

Organisation: Pro-Education, University of Professional Education, Amsterdam, The

Netherlands

• Title: Introduction to Component-based Development and Application Archi-

tectures

Period: Summer 2000 Format: Two hours lecture

Organisation: Ordina Telecom, Bilthoven, The Netherlands

• Title: An architectural perspective on knowledge management

Period: Spring 2000

Format: One day course. Part of a Master of Knowledge Management curriculum.

Organisation: TIAS, University of Tilburg, Tilburg, The Netherlands

• Title: Project Start-Architecture - Technical annex for system development

contracts

Period: Spring 2000 Format: Four course

Organisation: Dutch Taxation Office, The Netherlands

• Title: Component based development & Application architecture

Period: Spring 1999
Format: Series of 6 lectures

Organisation: University of Tilburg, Tilburg, The Netherlands

• Title: Introduction to knowledge discovery

Period: Fall 1998 and Spring 1999

Format: Half-a-day course

Organisation: Ordina Public, Zoetermeer, The Netherlands

• Title: An architectural perspective on knowledge management

Period: Fall 1998, Spring 1999, Fall 1999, Spring 2000

Format: Half-a-day course. Part of a two day course on knowledge management

Organisation: PAO-Informatica, The Netherlands

• Title: Application development under architecture

Period: Fall 1997 and Spring 1998

Format: Two day course

Organisation: ISES International, The Netherlands

• Title: Information & knowledge representation

Period: February 1997 to May 1997

Format: Series of 12 lectures

Organisation: Queensland University of Technology, Brisbane, Australia

• Title: Database design

Period: February 1996 to June 1996

Format: Series of 12 lectures

Organisation: Queensland University of Technology, Brisbane, Australia

• **Title:** File structures

Period: August 1995 to December 1995 and August 1996 to December 1996

Format: Series of 12 lectures

Organisation: Queensland University of Technology, Brisbane, Australia

• Title: Database design & Conceptual modelling 2

Period: August 1995 to December 1995

Format: Series of 12 lectures

Organisation: University of Queensland, Brisbane, Australia

• Title: Database design & Conceptual modelling 1

Period: February 1995 to May 1995

Format: Series of 12 lectures

Organisation: University of Queensland, Brisbane, Australia

• **Title:** Evolving information systems

Period: Spring 1993 and 1994

Format: Guest lecture

Organisation: Radboud University, Nijmegen, the Netherlands

• Title: System development methods

Period: Fall 1992 and 1993 Format: Series of 6 lectures

Organisation: HAN University, Arnhem, the Netherlands

Title: CASE Tools
 Period: Fall 1992 and 1993
 Format: Series of 6 lectures

Organisation: HAN University, Arnhem, the Netherlands

16 Invited lectures

- 2021, Informed Governance of Enterprise Transformations, guest lecture at the EA Debt Student Workshop, Frankfurt University of Applied Sciences, Frankfurt, Germany.
- 2020, Domain Modelling Understanding the things we talk about, guest lecture at the CSE Distinguished Seminar Series, TU Lisbon, Portugal.
- 2020, Domain Modelling Understanding the things we talk about, guest lecture at the LISTen up! webinar, Luxembourg Institute of Science and Technology, Belval, Luxembourg.
- 2020, Enterprise Systems Architectures Essentials, guest lecture at the LISTen up! webinar, Luxembourg Institute of Science and Technology, Belval, Luxembourg.
- 2019, Grounded Enterprise Modelling, guest lecture at the NEMO Summer School, Vienna University, Austria.
- 2019, Fundamental challenges in systems modelling, guest lecture at the University of St. Gallen, Switzerland.
- 2018, Towards grounded enterprise modelling, guest lecture at the University of Bozen/Bolzano, Italy.
- 2018, Grounded Enterprise Modelling, guest lecture at the NEMO Summer School, Vienna University, Austria.
- 2017, Grounded Enterprise Modelling, guest lecture at the NEMO Summer School, Vienna University, Austria.
- 2017, Enterprise Engineering Scope & Challenges, guest lecture at the Higer School of Economics, Nizhny Novgorod, Russia.
- 2017, EA in 60 minutes, guest lecture at the Allianz, München, Germany.
- 2015, SmartChange for Organisations in Motion, guest lecture at the Utrecht University, Utrecht, the Netherlands.
- 2015, Model-enabled design in organisations, guest lecture at the National University of Singapore, Singapore.
- 2014, Informed steering of enterprises in motion, guest lecture at the CNAM, Paris, France.
- 2014, Enterprise Architecture Informed steering of enterprises in motion, guest lecture at the University of Jyväskylä, Helsinki, Finland.
- 2012, Architecture-based Service Innovation, guest lecture at the Queensland University of Technology, Brisbane, Australia.
- 2011, Enterprise Architecture: A means for Informed Governance of Enterprise Transformations, guest lecture at the BGL, Kirchberg, Luxembourg.
- 2011, Architecture Principles The Cornerstone of Enterprise Architecture, guest lecture at the Cappemini, Utrecht, the Netherlands.
- 2011, Architecture Modelling: Why, What, How, guest lecture at the SAP Netherlands, Den Bosch, the Netherlands.
- 2011, Architecture Modelling: Why, What, How, guest lecture at the Club Urba, Paris, France.

- 2010, Enterprise Architecture Creating value by informed governance, guest lecture at the IDC, Lisbon, Portugal.
- 2010, Architecture-based Service Innovation in Networked Enterprises, guest lecture at the Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany.
- 2009, Information Architecture, guest lecture at the HAN University of Applied Sciences, Arnhem, the Netherlands.
- 2009, Enterprise Architecture A guided tour between theory and practice, guest lecture at the Ahold, Amsterdam, the Netherlands.
- 2009, Architectuur in de Digitale Wereld, guest lecture at the HU University of Applied Sciences, Utrecht, the Netherlands.
- 2009, Architecture as a means for Informed Governance, guest lecture at the NAF Insights, Zeist, the Netherlands.
- 2008, Business rules & architecture principles: Common roots; yet differing roles, guest lecture at the Radboud University, Nijmegen, the Netherlands, Caput College.
- 2005, The act of modeling: Context and understanding, guest lecture at the University of Duisburg-Essen, Duisburg, Germany.
- 2004, Domain Modelling Anchoring semantics in information systems engineering, guest lecture at the SIKS Doctoral School, Vught, the Netherlands.
- 2003, Architecture-driven System Development A system theory perspective, guest lecture at the SIKS Doctoral School, Vught, the Netherlands.

17 Leadership in teaching

- 2008 present, Member of the Advisory Board of the Master of Informatics, HU University of Applied Science, Utrecht, the Netherlands.
- 2011, Chair of an accreditation committee of the Dutch/Flemish Accreditation Organisation (NVAO), Pertaining to an Executive Master on Information Management, TiasNimbas Management School.
- 2011, Chair of an accreditation committee of the Dutch/Flemish Accreditation Organisation (NVAO), pertaining to a Master program on Public Information Management of the Erasmus Universiteit, the Netherlands.
- 2010, Chair of an accreditation committee of the Dutch/Flemish Accreditation Organisation (NVAO), Pertaining to a BSc program on Information Technology, of the Open University, the Netherlands.
- 2010, Chair of an accreditation committee of the Dutch/Flemish Accreditation Organisation (NVAO), Pertaining to an MSc program on IT Governance of the Open University, the Netherlands
- 2009, Member of an accreditation committee of the Dutch/Flemish Accreditation Organisation (NVAO), Pertaining to an MSc program on Enterprise IT Architecture from Inno.com in Belgium.
- 2004 2008, Program coordinator, Master of Architecture in the Digital World (part time program), Consortium of Radboud University, Nijmegen, the Netherlands and Cappemini, Utrecht, the Netherlands.

- 2002 2007, Theme leader of the Architecture-driven System Development research focus of the post-graduate school: Research School for Information and Knowledge Systems (SIKS).
- 2004 2007, Member of Teaching Committee (Onderwijscommissie) of the NIII, Radboud University, Nijmegen, the Netherlands.
- 2007, Leader of the PR revitalisation committee, aimed at the revitalisation of PR activities towards high schools in order to attract more students, NIII, Radboud University, Nijmegen, the Netherlands.
- 2002 2003, Leader of the curriculum development team for the Business Informatics MSc. and BSc. Program (Curriculum 2003) at Radboud University, Nijmegen, the Netherlands.
 In its first accreditation (2007), this program was evaluated as the best among three public Universities in the Netherlands offering such programmes.
- 2002 2004, Program coordinator, Information Science Program, Radboud University, Nijmegen, the Netherlands.
- 2002, Member of the Information Technology curriculum advisory board for the Hogeschool van Amsterdam/Brabant, Amsterdam, the Netherlands.

18 Industrial leadership

- 2021 present, Member of the Academic Advisory Board of the Business Architecture Guild.
- 2008 2012, Vice-chair of the ArchiMate forum of the The Open Group.
- 2009 2012, Member of the Business Architecture Certification working group, The Open Group.
- 2007 2012, Member of the advisory committee of Ordina's GEA (Generic Enterprise Architecting) Innovation Platform.
- 2008 2012, Vice-chair of the ArchiMate forum of The Open Group.
- 2002 2003, 2007 2010, Co-founder and board member of Netherlands Architecture Forum (NAF).
- 2010 2010, Label-leader for the Architecture Domain, Cappemini Academy, Utrecht, the Netherlands.
- 2008 2010, Leader of the Architecture Service-Line, Capgemini, Utrecht, the Netherlands.
- 2002 2003, 2007 2010, Co-founder and board member of the Netherlands Architecture Forum (NAF).
- 2009 2010, Leader of the Architecture Expert Group within Financial Services, Cappemini, Utrecht, the Netherlands.
- 2007 2008, Co-founder, board member and treasurer of the ArchiMate foundation.

19 Publications

19.1 Books

- H. A. Proper, R. Winter, S. Aier, and S. de Kinderen, editors. Architectural Coordination of Enterprise Transformation. The Enterprise Engineering Series. Springer, Heidelberg, Germany, 2018. ISBN: 978-3-319-69583-9 doi:10.1007/978-3-319-69584-6
- 2. M.-E. Iacob, H. Jonkers, M. M. Lankhorst, H. A. Proper, and D. A. C. Quartel. *ArchiMate 2.1 Specification*. The Open Group, 2013. ISBN: 9789401800037
- 3. M.-E. Iacob, H. Jonkers, M. M. Lankhorst, H. A. Proper, and D. A. C. Quartel. *ArchiMate 2.0 Specification*. The Open Group, 2012. ISBN: 1-937-21800-3
- 4. M. M. Lankhorst, W. P. M. Janssen, H. A. Proper, M. W. A. Steen, M. M. Zoet, W. A. Molnar, M.-E. Iacob, H. Jonkers, W. Engelsman, J. Versendaal, L. G. J. Debije, K. Gaaloul, A. Schrier, A. W. Heerink, S. J. B. A. Hoppenbrouwers, W. van Stokkum, I. Wilmont, and D. J. T. van der Linden. Agile Service Development: Combining Adaptive Methods and Flexible Solutions. The Enterprise Engineering Series. Springer, Heidelberg, Germany, 2012. ISBN: 978-3-642-28187-7
- 5. M.M Lankhorst, S. J. B. A. Hoppenbrouwers, H. Jonkers, H. A. Proper, L. van der Torre, F. Arbab, F. S. de Boer, M. Bonsangue, M.-.E. Iacob, A. W. Stam, L. Groenewegen, R. van Buuren, R. J. Slagter, J. Campschroer, M. W. A. Steen, S. F. Bekius, H. Bosma, M. J. Cuvelier, H. W. L. ter Doest, P. A. T. van Eck, P. Fennema, J. Jacob, W.P.M. Janssen, Jonkers, H., D. Krukkert, D. van Leeuwen, P.G.M. Penders, G.E. Veldhuijzen van Zanten, and R. J. Wieringa. Enterprise Architecture at Work Modelling, Communication and Analysis. The Enterprise Engineering Series. Springer, Heidelberg, Germany, 3rd edition, 2012. ISBN: 978-3-642-29650-5
- D. Greefhorst and H. A. Proper. Architecture Principles The Cornerstones of Enterprise Architecture. The Enterprise Engineering Series. Springer, Heidelberg, Germany, 2011. ISBN: 978-3-642-20278-0 doi:10.1007/978-3-642-20279-7
- 7. M.-E. Iacob, H. Jonkers, M. M. Lankhorst, and H. A. Proper. *ArchiMate 1.0 Specification*. The Open Group, 2009. ISBN: 978-9-087-53502-5
- 8. R. J. Wieringa, P. van Eck, C. Steghuis, and H. A. Proper. *Competences of IT Architects*. Academic Service SDU, The Hague, Netherlands, 2008. ISBN: 978-9-012-58087-8
- 9. M. Op 't Land, H. A. Proper, M. Waage, J. Cloo, and C. Steghuis. *Enterprise Architecture Creating Value by Informed Governance*. The Enterprise Engineering Series. Springer, Heidelberg, Germany, 2008. ISBN: 978-3-540-85231-5 doi:10.1007/978-3-540-85232-2
- M. M. Lankhorst, S. J. B. A. Hoppenbrouwers, H. Jonkers, H. A. Proper, L. van der Torre, F. Arbab, F. S. de Boer, M. M. Bonsangue, M.-E. Iacob, A. W. Stam, L. Groenewegen, R. van Buuren, R. J. Slagter, J. Campschroer, M. W. A. Steen, S. F. Bekius, H. Bosma, M. J. Cuvelier, H. W. L. ter Doest, P. A. T. van Eck, P. Fennema, J. Jacob, W. P. M. Janssen, Jonkers, H., D. Krukkert, D. van Leeuwen, P. G. M. Penders, G.E. Veldhuijzen van Zanten, and R. J. Wieringa. Enterprise Architecture at Work Modelling, Communication and Analysis. Springer, Heidelberg, Germany, 2005. ISBN: 3-540-24371-2

- H. A. Proper. Informatiekunde; Exacte vaagheid. Nijmegen Institute for Information and Computing Sciences, University of Nijmegen, Nijmegen, the Netherlands, November 2003. In Dutch. ISBN: 9-090-17286-6 https://repository.ubn.ru.nl/handle/2066/30154
- 12. H. A. Proper. *ISP for Large-scale Migrations*. Information Services Procurement Library. Ten Hagen & Stam, Den Haag, the Netherlands, 2001. ISBN: 9-076-30488-2
- 13. H. A. Proper. A Theory for Conceptual Modelling of Evolving Application Domains. PhD thesis, University of Nijmegen, Nijmegen, the Netherlands, 1994. ISBN: 9-090-06849-X https://repository.ubn.ru.nl/handle/2066/83258

19.2 Edited Books

- J. P. A. Almeida, D. Bork, G. Guizzardi, M. Montali, H. A. Proper, and T. Prince Sales, editors. 23rd Conference on Business Informatics, CBI 2021, Bolzano, Italy, September 1-3, 2021. Volume 2. IEEE, 2021. ISBN: 978-1-6654-2069-3 doi:10.1109/CBI52690.2021
- J. P. A. Almeida, D. Bork, G. Guizzardi, M. Montali, H. A. Proper, and T. Prince Sales, editors. 23rd IEEE Conference on Business Informatics, CBI 2021, Bolzano, Italy, September 1-3, 2021. Volume 1. IEEE, 2021. ISBN: 978-1-6654-2069-3 doi:10.1109/CBI52690.2021
- 3. S. Dupuy-Chessa and H. A. Proper, editors. Advanced Information Systems Engineering Workshops CAiSE 2020 International Workshops, Grenoble, France, June 8-12, 2020, Proceedings, volume 382 of Lecture Notes in Business Information Processing. Springer, Heidelberg, Germany, 2020. ISBN: 978-3-030-49164-2 doi:10.1007/978-3-030-49165-9 https://doi.org/10.1007/978-3-030-49165-9
- 4. D. Aveiro, G. Guizzardi, R. Pergl, and H. A. Proper, editors. Advances in Enterprise Engineering XIV – 10th Enterprise Engineering Working Conference, EEWC 2020, Bozen-Bolzano, Italy, September 28, October 19, and November 9-10, 2020, Revised Selected Papers, volume 411 of Lecture Notes in Business Information Processing. Springer, Heidelberg, Germany, 2021. ISBN: 978-3-030-74195-2 doi:10.1007/978-3-030-74196-9
- 5. H. A. Proper and J. Stirna, editors. Advanced Information Systems Engineering Workshops CAiSE 2019 International Workshops, Rome, Italy, June 3-7, 2019, Proceedings, volume 349 of Lecture Notes in Business Information Processing. Springer, Heidelberg, Germany, 2019. ISBN: 978-3-030-20947-6 doi:10.1007/978-3-030-20948-3
- 7. C. Feltus, P. Johannesson, and H. A. Proper, editors. *Proceedings of the Practice of Enter-prise Modelling 2019 Conference Forum (short papers), Luxembourg, November 27-29, 2019*, volume 2586 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020. http://ceur-ws.org/Vol-2586

- 8. H. A. Proper, S. Strecker, C. Huemer, C. Feltus, W. Guédria, I. S. Razo-Zapata, M. Brichni, D. Rozier, M. M. Komarov, S. V. Maltseva, and S. Guerreiro, editors. 20th IEEE Conference on Business Informatics, CBI 2018, Vienna, Austria, July 11-14, 2018, Volume 2 Research-in-Progress Papers and Workshops. IEEE Computer Society, 2018. http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8451902
- 9. H. A. Proper, S. Strecker, and C. Huemer, editors. 20th IEEE Conference on Business Informatics, CBI 2018, Vienna, Austria, July 11-14, 2018, Volume 1 Research Papers. IEEE Computer Society, 2018. ISBN: 978-1-5386-7016-3
- H. Panetto, C. Debruyne, H. A. Proper, C. Agostino Ardagna, D. Roman, and R. Meersman, editors. On the Move to Meaningful Internet Systems. OTM 2018 Conferences Confederated International Conferences: CoopIS, C C&TC, TC, and ODBASE 2018, Valletta, Malta, October 22-26, 2018, Proceedings, Part II, volume 11230 of Lecture Notes in Computer Science. Springer, Heidelberg, Germany, 2018. ISBN: 978-3-030-02670-7 doi:10.1007/978-3-030-02671-4
- H. Panetto, C. Debruyne, H. A. Proper, C. Agostino Ardagna, D. Roman, and R. Meersman, editors. On the Move to Meaningful Internet Systems. OTM 2018 Conferences Confederated International Conferences: CoopIS, C C&TC, TC, and ODBASE 2018, Valletta, Malta, October 22-26, 2018, Proceedings, Part I, volume 11229 of Lecture Notes in Computer Science. Springer, Heidelberg, Germany, 2018. ISBN: 978-3-030-02609-7 doi:10.1007/978-3-030-02610-3
- 12. J. Gordijn and H. A. Proper, editors. Proceedings of the 12th International Workshop on Value Modeling and Business Ontologies, VMBO 2018, Amsterdam, The Netherlands, February 26th 27th, 2018, volume 2239 of CEUR Workshop Proceedings. CEUR-WS.org, 2018. http://ceur-ws.org/Vol-2239
- H. A. Proper and J. Ralyté, editors. IEEE 16th Conference on Business Informatics, CBI 2014, Geneva, Switzerland, July 14-17, 2014 - Volume 1. IEEE Computer Society Press, Los Alamitos, California, 2014. ISBN: 978-1-4799-5778-1 http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6902665
- 14. W. A. Molnar, H. A. Proper, J. Zdravkovic, P. Loucopoulos, O. Pastor, and S. Kinderen de, editors. Proceedings of the 8th Transformation & Engineering of Enterprises workshop (TEE 2014), held in conjunction with the 16th IEEE Conference on Business Informatics (CBI 2014), Geneva, Switzerland. CEUR-WS.org, 2014. http://ceur-ws.org/Vol-1182/
- I. Bider, K. Gaaloul, J. Krogstie, S. Nurcan, H. A. Proper, R. Schmidt, and P. Soffer, editors. Enterprise, Business-Process and Information Systems Modeling 15th International Conference, BPMDS 2014, 19th International Conference, EMMSAD 2014, Held at CAiSE 2014, Thessaloniki, Greece, June 16-17, 2014. Proceedings, Lecture Notes in Business Information Processing. Springer, Heidelberg, Germany, 2014. ISBN: 978-3-662-43744-5 doi:10.1007/978-3-662-43745-2
- D. Aveiro, M Bjeković, A. Caetano, A. Fleischmann, L. Heuser, S. de Kinderen, M. M. Komarov, Y. Koucheryavy, S. V. Maltseva, W. Molnar, A. Oberweis, H. A. Proper, M. Rappa, W. Schmidt, F. Schönthaler, J. Sottet, C. Stary, and G. Vossen, editors. *Proceedings of the 16th IEEE Conference on Business Informatics (CBI 2014), Geneva, Switzerland, Volume 2.* IEEE Computer Society Press, Los Alamitos, California, 2014. ISBN: 978-1-4799-5779-8
- 17. H. A. Proper, D. Aveiro, and K. Gaaloul, editors. Advances in Enterprise Engineering VII

 Third Enterprise Engineering Working Conference, EEWC 2013, Luxembourg, May 1314, 2013. Proceedings, volume 146 of Lecture Notes in Business Information Processing.

 Springer, Heidelberg, Germany, May 2013. ISBN: 978-3-642-38116-4
 doi:10.1007/978-3-642-38117-1

- S. Nurcan, H. A. Proper, P. Soffer, J. Krogstie, R. Schmidt, T. A. Halpin, and I. Bider, editors. Enterprise, Business-Process and Information Systems Modeling 14th International Conference, BPMDS 2013, 18th International Conference, EMMSAD 2013, Held at CAiSE 2013, Valencia, Spain, June 17-18, 2013. Proceedings, volume 147 of Lecture Notes in Business Information Processing. Springer, Heidelberg, Germany, June 2013. ISBN: 978-3-642-38483-7
 - doi:10.1007/978-3-642-38484-4
- A. F. Harmsen and H. A. Proper, editors. Practice-Driven Research on Enterprise Transformation 6th Working Conference, PRET 2013, Utrecht, The Netherlands, June 6, 2013. Proceedings, volume 151 of Lecture Notes in Business Information Processing, Utrecht, the Netherlands, June 2013. Springer, Heidelberg, Germany. ISBN: 978-3-642-38773-9 doi:10.1007/978-3-642-38774-6
- R. Deneckère and H. A. Proper, editors. Proceedings of the CAiSE'13 Forum at the 25th International Conference on Advanced Information Systems Engineering (CAiSE), Valencia, Spain, June 20th, 2013, volume 998 of CEUR Workshop Proceedings. CEUR-WS.org, 2013. http://ceur-ws.org/Vol-998
- H. A. Proper, A. F. Harmsen, K. Gaaloul, and S. Wrycza, editors. Practice-Driven Research on Enterprise Transformation – 4th Working Conference, PRET 2012, Gdańsk, Poland, June 27, 2012. Proceedings, volume 120 of Lecture Notes in Business Information Processing, Gdansk, Poland, June 2012. Springer, Heidelberg, Germany. ISBN: 978-3-642-31133-8 doi:10.1007/978-3-642-31134-5
- I. Bider, T. A. Halpin, J. Krogstie, S. Nurcan, H. A. Proper, R. Schmidt, P. Soffer, and S. Wrycza, editors. Enterprise, Business-Process and Information Systems Modeling 13th International Conference, BPMDS 2012, 17th International Conference, EMMSAD 2012, and 5th EuroSymposium, held at CAiSE 2012, Gdańsk, Poland, June 25-26, 2012. Proceedings, volume 113 of Lecture Notes in Business Information Processing. Springer, Heidelberg, Germany, June 2012. ISBN: 978-3-642-31071-3 doi:10.1007/978-3-642-31072-0
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