

# Curriculum Vitae

Prof.dr. Henderik A. Proper

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## 1 Details

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## 2 Career overview

Prof.dr. Henderik A. Proper, Erik for friends, is an FNR PEARL Laureate, and senior research manager within the Computer Science (ITIS) department of the Luxembourg Institute of Science and Technology (LIST) in Luxembourg. He is also Adjunct Professor in Data & Knowledge Engineering at the University of Luxembourg. He regularly provides 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. In 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 obtained a full-time Professorship position 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 moved to the Luxembourg Institute of Science and Technology as a PEARL chair, while initially also continuing his chair at the Radboud University Nijmegen in the Netherlands. As of June 2017, Erik holds a chair in Data & Knowledge Engineering at the University of Luxembourg.

### 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

- 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.
- 2012, awarded an FNR PEARL grant of 3.3 M€
- 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:** Luxembourg Institute of Science and Technology, Luxembourg  
**Function:** Senior Research Manager  
**Period:** May 2010 – Present
- **Employer:** University of Luxembourg  
**Function:** Adjunct Professor  
**Period:** June 2017 – Present
- **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
- **Employer:** University of Queensland, Brisbane, Australia  
**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 visits 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  
**Size:** Awarded funding: 1248 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, 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 ArchiMate 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, Leiden University, Radboud University and 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 the assessment committee for a position as Associate professor, Norwegian University of Science and Technology (NTNU), Norway.
- 2014, member of the assessment committee for a promotion to Associate Professor at the KTH (Royal Institute of Technology), Stockholm, Sweden.
- 2013, member of the assessment committee of Research & Collaboration, University of Skövde, Skövde, Sweden.
- 2011, member of the assessment committee for a promotion to Associate Professor at the KTH (Royal Institute of Technology), Stockholm, Sweden.
- 2010, member of the assessment committee for a promotion to Senior Lecturer, at the Faculty of Engineering Sciences Ben-Gurion University of the Negev, Israel.
- 2009, member of the assessment 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. Y. Bobbert, *Improving the Maturity of Business Information Security*, 2018, Radboud University, Nijmegen, the Netherlands.
  2. M. Bjeković, *Pragmatics of Enterprise Modelling Languages: A Framework for Understanding and Explaining*, 2018, Radboud University, Nijmegen, the Netherlands.
  3. G. Plataniotis, *EA Anamnesis - A Conceptual Framework for Enterprise Architecture Rationalization*, 2017, Radboud University, Nijmegen, the Netherlands.
  4. R. Ettema, *Using triangulation in Lean Six Sigma to explain quality problems – An enterprise engineering perspective*, 2016, Radboud University, Nijmegen, the Netherlands.
  5. H. Faller, *Organisational Subcultures and Enterprise Architecture Effectiveness: an Explanatory Theory*, 2016, Radboud University, Nijmegen, the Netherlands.
  6. D. van der Linden, *Personal semantics of meta-concepts in conceptual modelling languages*, 2015, Radboud University, Nijmegen, the Netherlands.
  7. F. Tulinayo, *Combining System Dynamics with a Domain Modelling Method*, 2014, Radboud University, Nijmegen, the Netherlands.
  8. R. Wagter, Ordina, *Enterprise Coherence*, 2013, Radboud University, Nijmegen, the Netherlands.
  9. D. Ssebuggwawo, *Analysis and Evaluation of Modelling Processes*, 2012, Radboud University, Nijmegen, the Netherlands.
  10. A. Nakakawa, *A Collaborative Process for Enterprise Architecture Creation*, 2012, Radboud University, Nijmegen, the Netherlands.
  11. S. Overbeek, E-Office, *Bridging Supply and Demand for Knowledge Intensive Tasks*, 2009, Radboud University, Nijmegen, the Netherlands.
  12. J. Nabukenya, *Improving the Quality of Organisational Policy Making using Collaboration Engineering*, 2009, Radboud University, Nijmegen, the Netherlands.
  13. B. van Gils, *Aptness on the Web*, 2006, Radboud University, Nijmegen, the Netherlands.
  14. 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

- > 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 – DDesign 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*
- 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*
- 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 Ordina Round 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*, Biarritz, 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, Luxembourg.

- 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 Conferemce*, 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, Luxembourg
- **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 Architecture  
**Organisation:** TiasNimbas Business School, The Netherlands
- **Title:** Overview of TOGAF  
**Period:** Spring 2010  
**Format:** Two day workshop  
**Organisation:** Capgemini, Utrecht, the Netherlands
- **Title:** TOGAF 9  
**Period:** Fall 2009, Spring 2010  
**Format:** Four course  
**Organisation:** Capgemini, Utrecht, the Netherlands

- **Title:** ArchiMate  
**Period:** Summer 2009, Fall 2009, Spring 2010  
**Format:** Two day course  
**Organisation:** Capgemini, Utrecht, the Netherlands
- **Title:** TOGAF 8  
**Period:** Fall 2008, Summer 2009  
**Format:** Four course  
**Organisation:** Capgemini, Utrecht, the Netherlands
- **Title:** Information Architecture  
**Period:** Fall 2009  
**Format:** Series of eight lectures  
**Organisation:** Radboud University, Nijmegen, the Netherlands
- **Title:** Business Rules  
**Period:** 2007 – 2009  
**Format:** Series of sixteen lectures  
**Organisation:** Radboud University, Nijmegen, the Netherlands
- **Title:** Business Architecture  
**Period:** 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:
  1. ABK, Radboud University, Nijmegen, the Netherlands
  2. 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 Architecture “*Master of Architecture in the Digital World*”  
**Organisation:** A collaboration between:
  1. ABK, Radboud University, Nijmegen, the Netherlands
  2. 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 Architectures  
**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 *Capgemini*, 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 Capgemini, 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, Capgemini 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, Capgemini, Utrecht, the Netherlands.
- 2007 – 2008, Co-founder, board member and treasurer of the ArchiMate foundation.

## 19 Publications

### 19.1 Books

1. 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
6. 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
10. 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

11. 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

1. 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](https://doi.org/10.1109/CBI52690.2021)
2. 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](https://doi.org/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)  
<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](https://doi.org/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](https://doi.org/10.1007/978-3-030-20948-3)
6. J. Gordijn, W. Guédria, and H. A. Proper, editors. *The Practice of Enterprise Modeling - 12th IFIP Working Conference, PoEM 2019, Luxembourg, Luxembourg, November 27-29, 2019, Proceedings*, volume 369 of *Lecture Notes in Business Information Processing*. Springer, 2019. ISBN: 978-3-030-35150-2  
[doi:10.1007/978-3-030-35151-9](https://doi.org/10.1007/978-3-030-35151-9)
7. C. Feltus, P. Johannesson, and H. A. Proper, editors. *Proceedings of the Practice of Enterprise 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
10. 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](https://doi.org/10.1007/978-3-030-02671-4)
11. 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  
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