

1 DOCENT APPLICATION

Subject area

Computer and Systems Sciences (Data- och systemvetenskap), Faculty of Social Science (Samhällsvetenskapliga fakulteten)

Applicant: Erik Perjons

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Appendix:

- A. Certificate of PhD
- B. Verification from co-authors
- C. Certificates of university pedagogical courses



2 CV

2.1 Personal Data

Name: Erik Perjons

Born: 1959-01-22

Gender: Male

Languages: Swedish (mother tongue) and English (fluently in speaking and writing)

2.2 Scientific Degrees

2011 - PhD in Computer and Systems Sciences, Stockholm University, Stockholm, Sweden, (Certificate of PhD in Appendix A)

2004 - Bachelor degree in Computer and Systems Sciences, Stockholm University, Stockholm, Sweden

1989 - University degree (2 years) in Journalism (examen vid Journalistlinjen vid Journalisthögskolan), Stockholm University, Stockholm, Sweden

2.3 Employments

2012-01-01 Stockholm University, Department of Computer and Systems Sciences
Senior lecturer (universitetslektor)

2010-2012 Stockholm University, Department of Computer and Systems Sciences
Research engineer

2010-2004 Royal Institute of Technology, Department of Computer and Systems Sciences
Research engineer/Research assistant

2004-2001 Stockholm University, Department of Computer and Systems Sciences
Project assistant

1999-2001 Royal Institute of Technology, Department of Computer and Systems Sciences
Research engineer/Research assistant

1998-1994 Imedia (a MTG/Kinnevik company)
Media analyst and news editor for TV3 text-TV

1985-1993 Different newspapers in Sweden: Dagens Nyheter, Upsala Nya Tidning, Barometern, Falu Kuriren, Norrländska Socialdemokraten
Journalist

3 RESEARCH PAPERS SELECTED FOR EVALUATION

The selected papers (P2-P10) represent major research contributions after my PhD thesis (P1). They have been categorized into four major themes: design science, business process modelling, enterprise modelling and service design. The themes are presented in the next section. In this section, the papers are briefly presented as well as my contributions in each of the papers. My co-authors have verified my contributions in Appendix B. (The numbers in “[]” refer to the numbers in the publication list in Section 4.2.)

PhD Thesis

P1 [3] Perjons, E. (2011). *Model-Driven Process Design, Aligning Value Network, Enterprise Goals, Services and IT-systems*, Doctoral Thesis in Computer and Systems Sciences, Stockholm University, Report Series/DSV 11-004.

In my doctoral thesis, I have present different solutions to practical problems within the area of information system, in domain such as health care and telecom. The solutions are all based on business process modelling and design. The research methodology used in my research presented in the thesis is design science, and the thesis provide and apply an approach/framework for presenting design science research.

Design science

P2 [1] Johannesson, P., & Perjons, E. (2014). *An Introduction to Design Science*. Springer.

The book is an introduction to design science for researchers and students. It present a framework for describing design science research based on the approach/framework presented in my PhD thesis. The book also presents and discusses further reading and related research about design science.

My major contribution in the book is the development of the design science framework as well as the chapters describing problem explication, design and development, and demonstration. I have contributed to around 40 % of the book.

P3 [11] Johannesson, P. & Perjons, E. (2017). Untangling the Web of Practices - Designing Information Systems in Context, *Systems, Signs & Actions*, 10 (1), pp. 1-33.

The paper presents support for systematically addressing multiple, related practices when designing information systems artefacts. For example, when developing an information system for a bank, the developers need to consider not only the banking practice but also the government practice of compliance monitoring.

The order of the authors' names was based on alphabetic order. I have contributed to all part of the paper in tight collaboration with the co-author. I have contributed to around 50 % of the paper.

- P4 [7] Bider, I., Johannesson, P. & Perjons, E. (2013). Design science research as movement between individual and generic situation-problem-solution spaces. Book chapter in: Baskerville, R., De Marco, M., Spagnoletti, P. (eds.) *Designing Organizational Systems, Lecture Notes in Information Systems and Organisation*, Vol. 1, Springer, pp. 36-61.

The paper presents a theoretical approach describing design science work as a movement between two worlds: the specific world of local practices and the abstract world of generic practices.

The order of the authors' names was based on alphabetic order. I have developed the theoretical approach together with the first author of the paper. I have contribution to around 30 % of the paper.

- P5 [54] Bider, I., Johannesson, P., Perjons, E. & Johansson, L. (2012). Design science in action: Developing a framework for introducing IT systems into operational practice, In: George, J.F. (eds.) *Proceedings of the International Conference on Information Systems (ICIS) 2012*, Orlando, USA, December 16-19, Association for Information Systems.

The paper provides an example of using design science for addressing a problem in a local practice: how to support practitioners introducing new IT systems, especially if the introduction process is haltering. The paper presents a framework that addresses this problem. The paper is built on research from two fields of research and practice: change management and technology acceptance.

The order of the authors' names was based on alphabetic order. I have contributed to all part of the paper in tight collaboration with the co-authors. I have contributed to around 30 % of the paper.

I justify the selection of a conference paper as part of the list of papers selected for evaluation in the following way: ICIS is a high level conference and a leading conference in the area of information system.

Business process modelling

- P6 [13] Bider, I., Perjons, E., Elias, M. & Johannesson, P. (2016). A fractal enterprise model and its application for business development. *Software & Systems Modeling*, pp. 1-27, doi:10.1007/s10270-016-0554-9.

The paper describes a new type of business process model, called fractal enterprise model, which connects enterprise processes via assets/resources used for running these processes. The paper also describes the benefits of using this model.

I have developed the theoretical part, the fractal enterprise model, together with the first author of the paper. I have contributed to around 30 % of the paper.

- P7 [16] Bider, I. & Perjons, E. (2015). Design science in action: developing a modeling technique for eliciting requirements on business process management (BPM) tools. *Software & Systems Modeling*, 14(3), Springer, pp. 1159-1188.

The paper presents a solution for selecting a suitable business process management (BPM) tool for building a business process support system for particular types of business processes. The research approach applied is design science.

The order of the authors' names was based on alphabetic order. I have contributed to all part of the paper in tight collaboration with the co-author. I have contributed to around 40 % of the paper.

Enterprise modelling

P8[12] Henkel, M., Perjons, E. & Sneiders, E. (2017). Examining the potential of language technologies in public organizations by means of a business and IT architecture model. *International Journal of Information Management*, 37(1), pp.1507-1516.

The paper presents a business and IT architecture model to be used for investigating the potential use of new technologies in the form of language technologies and tools, such as text mining, information extraction, and question and answering systems.

The order of the authors' names was based on alphabetic order. I have developed the business and IT architecture of the paper, and the problem description. I have contributed to around 40 % of the paper.

Service design

P9 [19] Goldkuhl, G. & Perjons, E. (2014). Focus, Goal and Roles in E-Service Design: Five Ideal Types of the Design Process. *e-Service Journal*, 9(2), Indiana University Press, pp. 24-45.

The paper describes five ideal types of e-service design, and the five types are demonstrated using real life research projects.

The order of the authors' names was based on alphabetic order. I have written the introduction and contributed with the description of two of the five ideal types as well as the descriptions to several of the empirical examples. I have contributed to around 50 % of the paper.

P10 [59] Henkel, M. & Perjons, E. (2011): E-Service Requirements from a Consumer-Process Perspective, In: Berry, D. and Franch X. (Eds.) *Requirements Engineering: Foundation for Software Quality, 17th International Working Conference, REFSQ 2011, Essen, Germany, March 2011, Proceeding*, LNCS 6606, Springer, pp. 121–135.

The paper presents a solution of how to address the problem of designing e-services so that they consider also the consumers' – that is, the external actors' - business processes.

The order of the authors' names was based on alphabetic order. I have contributed to all part of the paper in tight collaboration with the co-author. I have contributed to around 50 % of the paper.

I justify the selection of a conference paper as part of the list of papers selected for evaluation in the following way: REFSQ is a high level conference and a leading conference in the area of requirements engineering. Proceedings has been printed by a well-renowned publisher: Springer.

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4 RESEARCH EXPERIENCES AND MERITS

4.1 Short presentation of my research activities

My research activities can be categorized into four major themes: design science, business process modelling, enterprise modelling, and service design. My research within these categories are all briefly described below. (The numbers in “[]” refer to the numbers in the publication list in next section.)

Design science

The research methodology applied in the PhD thesis was design science. I have continued my research on design science in several directions. One direction was to introduce design science for researchers not familiar with the research methodology by being a co-author of two books, (Johannesson & Perjons, 2012 [2]) and (Johannesson & Perjons, 2014 [1]), where the latter book is an extension to the former. The books are based on the research approach/framework first presented in my PhD thesis.

Another direction of design science has been to emphasize that design science requires researchers to act in two different worlds: (a) the real world of specific situations, problems and solutions in local practices, and (b) the abstract world of generic situations, problems and solutions (Bider, Johannesson & Perjons, 2013 [7]). For example, an organization can have a specific problem, however, the solution developed need to be generic, that is, possible to be applied in several organizations, in order to be a design science contribution (according to most researchers in the design science community). Moreover, a design science project can also start with a generic problem and develop a generic solution to the problem, but in order to test the solution in a real life setting, the solution needs to be applied in local practices. The theoretical framework presented in Bider, Johannesson & Perjons (2013, [7]) has been used for describing the research carried out in a number of research projects (Bider, Johannesson, Perjons & Johansson, 2012 [54]; Bider & Perjons, 2015 [16]).

A third direction of design science was to discuss the relationships between artefacts and practices in which the artefact is used (Johannesson & Perjons, 2017 [11]).

Business process modelling

Business process modelling and design was a major focus of my PhD thesis (Perjons, 2011 [3]). The thesis presented different type of model-driven design solutions – all using business process modelling and design - in order to solve practical problems in different domains, such as telecom and health care.

After the PhD dissertation I have continued my work on business process modelling in several direction. One direction was to provide support for selecting a suitable business

process management (BPM) tool for building a business process support system for particular types of business processes (Bider & Perjons, 2012 [55]; Bider & Perjons, 2015 [16]). For example, well-structured business processes need another type of support than business processes that are ad-hoc. The latter type of processes are hard to predefine before execution since they are dependent on the situation at hand. These latter type of processes are often using a systems support called adaptive case management (ACM) systems. The characteristics of ACM have been discussed in two papers (Henkel, Perjons & Sneiders, 2015 [39]; Bider, Johannesson & Perjons, 2012 [6]).

Another direction in the research of business process modelling was to view a business process as a system, and, thereby, introducing a discussion of how such a systemic view can be used for finding new ways of achieving enterprise/business agility (Bider, Bellinger & Perjons, 2013 [8]; Bider, Bellinger & Perjons, 2011 [60]).

A third direction was to introduce a strategy to integrate social media and business process management (Bider, Johannesson & Perjons, 2011a [58]; Bider, Johannesson & Perjons, 2011b [62]; Bider, Johannesson & Perjons, 2010 [65]).

A fourth direction was to introduce a new business process modelling – or enterprise modelling – technique, called fractal enterprise model (Bider, Perjons, Elias, & Johannesson, 2016 [13]). The fractal enterprise model (FEM) shows relationships between the business processes in an enterprise and the assets/resources they use and manage. FEM can be used for finding a majority of the processes in an enterprise (Bider, Perjons & Mturi, 2012 [56]), identifying capabilities of an organization (Henkel, Bider & Perjons, 2014 [43]), and for planning business transformation (Bider, Perjons, Elias, & Johannesson, 2016 [13]).

Enterprise modelling

My PhD thesis (Perjons, 2011 [3]) also introduce enterprise modelling techniques that could be used in combination with business process modelling in order to create solutions for addressing practical problem. Examples of such enterprise modelling techniques are value, goal and information modelling. A paper that is using value and goal modelling for identifying e-services is Henkel, Johannesson & Perjons (2013 [9]).

Enterprise models, in form of business use cases and models of enterprise and IT architectures, have also been used in a number of papers for describing how language technology can be used in public organizations (Henkel, Perjons, & Sneiders, 2017 [12]; Henkel, Perjons, & Sneiders, 2016 [33]; Henkel, Perjons, Sneiders, Karlgren, Boye & Thelemyr, 2014 [45]).

Service design

Service design has been the goal of several papers, such as the earlier mentioned paper by Henkel, Johannesson & Perjons (2013, [9]). Other approaches for identifying e-services are presented in Henkel & Perjons (2011, [59]), and Henkel, Perjons & Thelemyr (2013, [51]). In Goldkuhl & Perjons (2014, [19]), five ideal types of service design are presented, exemplified with experiences from real life research projects. The ideal types have been developed based on different focus, goals and roles in the design process.

4.2 Publications

Works selected for evaluation are marked ”+”.

Books/Monographies

1. (+) Johannesson, P. & Perjons, E. (2014). *An Introduction to Design Science*. Springer.
2. Johannesson, P. & Perjons, E. (2012). *A Design Science Primer*. 1st ed. Printed by CreateSpace.
3. (+) Perjons, E. (2011). *Model-Driven Process Design, Aligning Value Network, Enterprise Goals, Services and IT-systems*, Doctoral Thesis in Computer and Systems Sciences, Stockholm University, Report Series/DSV 11-004.
4. Perjons, E. & Arghe, P. (1998). *HTML I praktiken* (in Swedish), Bonnier datapocket, Uddevalla : Mediaprint, 335 pages.

Book chapters

5. Henkel, M., Perjons, E. & Sneiders, E. (2017). Business and IT Architecture for the Public Sector: Problems, IT Systems Alternatives and Selection Guidelines, Accepted for publication In: *Information Technology Governance in Public Organizations - Theory and Practice*, Editors: Rusu, L., Viscusi, G., Springer International Publishing AG, Integrated Series in Information Systems.
6. Bider, I., Johannesson, P. & Perjons, E. (2013). Justifying ACM: Why We Need a Paradigm Shift in BPM. In: *Empowering Knowledge Workers: New Ways to Leverage Case Management*, Future Strategies Inc.
7. (+) Bider, I., Johannesson, P. & Perjons, E. (2013). Design science research as movement between individual and generic situation-problem-solution spaces. In: Baskerville, R., De Marco, M., Spagnoletti, P. (eds.) *Designing Organizational Systems*, Lecture Notes in Information Systems and Organisation, Vol. 1, Springer, pp. 36-61.
8. Bider, I., Bellinger, G. & Perjons, E. (2013). Balancing Agility with Stability: Systemic View on Business Processes. In: Gotze, J., Jensen-Waud, A. (eds) *Beyond Alignment: Applying Systems Thinking in Architecting Enterprises*, College Publications, pp. 413-438.

9. Henkel, M., Johannesson, P. & Perjons, E. (2013). An Approach for E-Service Design using Enterprise Models, In: Krogstie, J. (ed) *Frameworks for Developing Efficient Information Systems*, pp 245-268, ISBN13: 9781466641617, IGI Global.

PhD, 2011

10. Bider I., and Perjons E. (2009). Evaluating Adequacy of Business Process Modeling Approaches, In: *Handbook of Research on Complex Dynamic Process Management: Techniques for Adaptability in Turbulent Environments*, IGI, pp. 79-102.

Journalartiklar - peer-review granskade

11. (+) Johannesson, P. & Perjons, E. (2017). Untangling the Web of Practices - Designing Information Systems in Context, accepted to be published in *Systems, Signs & Actions*, (www.sysiac.org).
12. (+) Henkel, M., Perjons, E. & Sneiders, E. (2017). Examining the potential of language technologies in public organizations by means of a business and IT architecture model. *International Journal of Information Management*, 37(1), 1507-1516.
13. (+) Bider, I., Perjons, E., Elias, M. & Johannesson, P. (2016). A fractal enterprise model and its application for business development. *Software & Systems Modeling*, pp. 1-27, doi:10.1007/s10270-016-0554-9.
14. Winge, M., Johannesson, P., Perjons, E. & Wangler, B. (2015). The coordination hub: Toward patient-centered and collaborative care processes. *Health Informatics Journal*, 21(4), 284-305.
15. El-Mekawy, M., Rusu, L., Perjons, E., Sedvall, K. J. & Ekici, M. (2015). Strategic and Tactical Business-IT Alignment Barriers in Organizations Acting in Sweden. *International Journal of IT/Business Alignment and Governance (IJITBAG)*, 6(2), 31-55.
16. (+) Bider, I. & Perjons, E. (2015). Design science in action: developing a modeling technique for eliciting requirements on business process management (BPM) tools. *Software & Systems Modeling*, 14(3), Springer, pp. 1159-1188.
17. Bider, I., Henkel, M., Kowalski, S. & Perjons, E. (2015). Simulating apprenticeship using multimedia in higher education: A case from the information systems field, *Interactive Technology and Smart Education*, 12 (2), pp.137-154, Emerald Group Publishing Limited, doi: 10.1108/ITSE-04-2015-0004.
18. El-Mekawy, M., Rusu, L. & Perjons, E. (2015). An evaluation framework for comparing business-IT alignment models: A tool for supporting collaborative learning in organizations. *Computers in Human Behavior*, Elsevier Science Ltd, doi:10.1016/j.chb.2014.12.016.
19. (+) Goldkuhl, G. & Perjons, E. (2014). Focus, Goal and Roles in E-Service Design: Five Ideal Types of the Design Process. *e-Service Journal*, 9(2), Indiana University Press, pp. 24-45.

20. Alwazae, M., Kjellin, H. & Perjons, E. (2014). A synthesized classification system for best practices. *VINE: The journal of information and knowledge management systems*, 44(2), Emerald Group Publishing Ltd., pp.249-266.
21. Henkel, M., Johannesson, P. & Perjons, E. (2011). An Approach for E-service Design using Enterprise Models, *International Journal of Information System Modeling and Design (IJISMD)*, 2(1).

PhD, 2011

22. Perjons, E., Bider, I. & Andersson, B. (2007). Building and exploiting a business process model for lobbying: Experience report. *Communications of the IIMA (CIIMA)*, 7 (3), The International Information Management Association, pp. 1-14.
23. Henkel, M., Perjons, E. & Zdravkovic, J. (2007). Towards guidelines for the evolution of e-service environments. *International Journal of Public Information Systems*, 3(3) , pp. 183–200.
24. Perjons, E., Wangler, B. Wäyrynen, J. & Åhlfeldt, R.-M. (2005). Introducing a process manager in healthcare: An experience report, *Health Informatics Journal*, 11 (1), Sage, pp. 45–61.
25. Andersson, B., Bider, I., Johannesson, P. & Perjons, E. (2005). Towards a formal definition of goal-oriented business patterns, *Business Process Management Journal (BPMJ)*, 11(6), Emerald Group Publishing Ltd., UK, pp. 650-662.
26. Wangler, B., Perjons, E. & Åhlfeldt, R.-M. (2003). Process oriented information systems architectures in healthcare. *Health Informatics Journal*, 9 (4), Sage, pp. 253–265.
27. Johannesson, P. & Perjons, E. (2001). Design principles for process modelling in enterprise application integration. *Information Systems*, 26 (3), Elsevier Science Ltd, pp. 165–184.

Peer-reviewed conference papers

28. Henkel M., Perjons E. & Drougge U. (2017). An Approach for Examining the Value of Open Data Solutions. In: Rocha Á., Correia A., Adeli H., Reis L., Costanzo S. (eds) *Recent Advances in Information Systems and Technologies. WorldCIST 2017. Advances in Intelligent Systems and Computing*, vol 569. Springer, Cham.
29. Tell A.W., Henkel M. & Perjons E. (2016). A Method for Situating Capability Viewpoints. In: Řepa V., Bruckner T. (eds) *Perspectives in Business Informatics Research. BIR 2016. Lecture Notes in Business Information Processing*, vol 261. Springer, Cham.
30. Henkel, M., Perjons, E. & Drougge, U. (2016). Using Open Data to Support Case Management. In: *Enterprise Distributed Object Computing Workshop (EDOCW)*, 2016 IEEE 20th International (pp. 1-4). IEEE.
31. Bider, I., Olsson, S. & Perjons, E. (2016). Stray lamb-misalignment in a socio-technical structure of an enterprise when transitioning to intelligent products. In: Kowalski, S.,

- Bednar, P. M., Bider, I. *Proceedings of the 2nd International Workshop on Socio-Technical Perspective in IS Development* (co-located with 28th International Conference on Advanced Information Systems Engineering, CAiSE 2016), pp. 25-38.
32. El-Mekawy, M., Rusu, L. & Perjons, E. (2016). Business-IT Alignment and Organizational Culture Relationships: Towards an Integrated View. In: *European Conference on Information Systems (ECIS 2016)*, Istanbul, Turkey, 12-15 June, 2016.
 33. Henkel, M., Perjons, E. & Sneiders, E. (2016). A Business and IT Architecture Model Supporting Public Organizations Introducing Language Technologies. In: Rocha Á., Correia A., Adeli H., Reis L., Mendonça Teixeira M. (eds) *New Advances in Information Systems and Technologies*. Advances in Intelligent Systems and Computing, vol 444. Springer, Cham.
 34. Winge M., Perjons E. & Wangler B. (2015). Understanding Care Work and the Coordination of Care Process Conglomerations. In: Jeusfeld M., Karlapalem K. (eds) *Advances in Conceptual Modeling*. Lecture Notes in Computer Science, vol 9382. Springer, Cham.
 35. Bider, I., Henkel, M., Kowalski, S. & Perjons, E. (2015). Reuse of Simulated Cases in Teaching Enterprise Modelling. In: Jeusfeld, M., Karlapalem, K. (eds) *Advances in Conceptual Modeling*. Lecture Notes in Computer Science, vol 9382. Springer, Cham.
 36. Bider, I., Henkel, M., Kowalski, S. & Perjons, E. (2015). Teaching Enterprise Modeling Based on Multi-media Simulation: A Pragmatic Approach. In: Benyoucef M., Weiss M., Mili H. (eds) *E-Technologies. MCETECH 2015*. Lecture Notes in Business Information Processing, vol 209. Springer, Cham.
 37. Bider, I., Henkel, M., Kowalski, S. & Perjons, E. (2015). Technology enhanced learning of modeling skills in the field of information systems. In: *Proceedings of 8th IADIS International Conference on Information systems*, Madeira, Portugal, 14-16 March 20, IADIS Press.
 38. Alwazae, M., Perjons, E. & Johannesson, P. (2015). Applying a Template for Best Practice Documentation, *Procedia Computer Science*, Volume 72, pp. 252-260, ISSN 1877-0509, <http://dx.doi.org/10.1016/j.procs.2015.12.138>.
 39. Henkel M., Perjons E. & Sneiders E. (2015). Supporting Workflow and Adaptive Case Management with Language Technologies. In: Rocha A., Correia A., Costanzo S., Reis L. (eds) *New Contributions in Information Systems and Technologies*. Advances in Intelligent Systems and Computing, vol 353. Springer, Cham, pp.543-552.
 40. El-Mekawy, M., Rusu, L., Perjons, E., Sedvall, K. J. & Ekici, M. (2015). From Theory to Practice: Barriers to Business-IT Alignment in Organizations Acting in Sweden, In: *48th Hawaii International Conference on System Science (HICCS)*, IEEE, pp. 4523 – 4533.
 41. Alwazae, M. M., Johannesson, P. & Perjons, E. (2015). Evaluation of a Classification System for Best Practices. In: *48th Hawaii International Conference on System Science (HICCS)*, IEEE, pp. 3702-3711.

42. El-Mekawy, M., Rusu, L. & Perjons, E. (2014). The Impact of Business-IT Alignment on Organizational Culture. In: *PACIS 2014 Proceedings*, Paper 310, AIS Electronic Library (AISeL).
43. Henkel, M., Bider, I. & Perjons, E. (2014). Capability-Based Business Model Transformation. In: *Advanced Information Systems Engineering Workshops*, Springer International Publishing, pp. 88-99.
44. Alwazae, M., Perjons, E. & Kjellin, H. (2014). Quality Measures for Documentation of Best Practices. In: *47th Hawaii International Conference on System Sciences (HICSS)*, IEEE, pp. 3410-3419.
45. Henkel, M., Perjons, E., Sneiders, E., Karlgren, J., Boye, J., & Thelemyr, A. (2014). Language Technology for eGovernment–Business Cases. In: *New Perspectives in Information Systems and Technologies*, Volume 1, Spinger, pp. 83-95.
46. Bider, I., Perjons, E. & Dar, Z. R. (2013). Using data-centric business process modeling for discovering requirements for business process support systems: Experience report. In: *Enterprise, Business-Process and Information Systems Modeling*, Springer, pp.63-77.
47. Bider, I., Johannesson, P. & Perjons E. (2013). Using Empirical Knowledge and Studies in the Frame of Design Science Research. In: J. vom Brocke et al. (Eds.): *DESRIST 2013*, LNCS 7939, Springer, 2013, pp. 463–470.
48. Johannesson, P., Perjons, E. & Bider, I. (2013). What are the siblings of design science research? In: *SIG Prag Workshop on IT Artefact Design & Workpractice Improvement*
49. Bider, I., Johannesson, P. & Perjons, E. (2013). Do workflow-based systems satisfy the demands of the agile enterprise of the future? In: *Business Process Management Workshops*, Springer Berlin Heidelberg, pp. 59-63.
50. El-Mekawy, M., Perjons, E. & Rusu, L. (2013). A Framework to Support Practitioners in Evaluating Business - IT Alignment Models, In: *Proceedings of 19th Americas Conference on Information Systems (AMCIS, 2013)*.
51. Henkel, M., Perjons, E. & Thelemyr, A. (2013). Applying the Lead User Method for Designing e-Services - Practical Techniques and Experiences, In: e Cunha, J. F., Snene, M., N6voa, H. (Eds.) *Proceedings 4th International Conference on Exploring Service Science (IESS) 2013, Porto, Portugal, February 7-8*, LNBIP, Vol 143, Springer-Verlag, pp. 45-57.
52. Winge, M., Johannesson, P. Perjons, E. & Wangler, B. (2013). Managing the Process Conglomeration in Health and Social Care, In: *Proceeding of Sixth International Conference on Health Informatics (HEALTHINF 2013)*, Barcelona, Spain, INSTICC Press, pp. 374-381.
53. Alwazae, M., Perjons, E. & Kjellin, H. (2013). Verifying the Usefulness of a Classification System of Best Practices. In: *5th International Conference on Knowledge Management and Information Sharing-KMIS 2013, September 19-22, 2013, Vilamoura, Algarve, Portugal*, SciTePress.

54. (+) Bider, I., Johannesson, P., Perjons, E. & Johansson, L. (2012). Design science in action: Developing a framework for introducing IT systems into operational practice, In: George, J.F. (eds.) *Proceedings of the International Conference on Information Systems (ICIS) 2012, Orlando, USA, December 16-19*, Association for Information Systems.
 55. Bider, I. & Perjons, E. (2012). Preparing for the era of cloud computing: Towards a framework for selecting business process support services. In: Bider, I., Halpin, T., Krogstie, J., Nurcan, S., Proper, E., Schmidt, R., Soffer, P., and Wrycza, S. (eds.) *Proceedings 13th International Conference: Enterprise, Business-Process and Information Systems Modeling (BPMDS) 2012*, Lecture Notes in Business Information Processing, pp. 16-30.
 56. Bider, I., Perjons, E. & Mturi, E. (2012). Untangling the Dynamic Structure of an Enterprise by Applying a Fractal Approach to Business Processes, In: Sandkulh K., Seigerroth U., Stirma J. (eds) *The Practice of Enterprise Modeling (PoEM 2012)*, Lecture Notes in Business Information Processing, Vol. 134, Springer, pp. 61-75.
 57. Bider, I. & Perjons, E. (2012). Reviving Language/Action Perspective in the Era of Social Software: Research in Progress, In; Sandkulh, K., Seigerroth, U., Stirna, J. (eds.) *Emerging Topics in the Practice of Enterprise Modeling (PoEM 2012)*, CEUR, pp. 72-83.
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4.3 Other activities connected to my research

Research project

I have participated in the following national and international research projects. Grant and grant - in Swedish kronor (SEK) to the Department of Computer and Systems Sciences (DSV) - are also specified for each project. I have also been one of the writers of the research applications for the projects listed below, with the exception of project 2, 3, 6 and 15.

1. *CBILE*, 2016 – a project aiming at designing a learning environment via the use of simulated apprenticeship. Granter: Stockholm University. Grant: 360 kSEK to DSV.
2. *Teaching collaboration in e-government*, 2016-2017 – a project aiming collaboration between Stockholm University, Sweden, and St. Cyril and Methodius University, Skopje, Macedonia with the long-term goal to develop a double degree two-years master program in e-government. Granter: Linnaeus partnership programme. Grant: 300 kSEK, whereof around 100 kSEK to DSV teachers for travels.

3. *Quality Assurance in Education and Research: Tools and Methodology*, 2016-2017 – a collaboration between Stockholm University, Sweden, and Helwan University, Cairo, Egypt comparing quality assurance system between the universities. Granter: STINT. Grant: 150 kSEK, whereof around 50 kSEK to DSV for travels.
4. *Open mobile data*, 2015-2016 – a project aiming at examine the value of using open data sources in mobile phones for municipalities and new residents. Partners: Nacka kommun, Mobilearn. Granter: Vinnova. Grant: 100 kSKR to DSV.
5. *Futurelearn*, 2013-2014 – a project aiming at designing case based learning within the area of information system. Granter: Stockholm University. Grant: 190 kSEK to DSV.
6. *Language technology in e-Government (IMAN2)*, 2013-2015 – a project aiming at increase effectiveness in e-Government by applying language technology. Partners: Swedish Pension Agency, Kungsbacka kommun, Visuera, Cybercom. Granter: Vinnova. Grant: 5MSEK, whereof 3MSEK to DSV.
7. *KPIs in higher education*, 2011-2012 – a project aiming at developing key performance indicators for higher education. Partner: Stockholm University. Granter: Stockholm University. Grant: 350 kSKR to DSV.
8. *SamMET*, 2008-2010 – a project aiming at developing methods for customer interactive and innovative service design. Partners: Scandinavian airlines (SAS), Ericsson, Swedish Tax Agency, Linköping University, University of Skövde. Granter: Vinnova. Grant: 4MSKR, whereof 1MSKR to DSV.
9. *REMS*, 2005-2008 – a project aiming at designing, constructing and applying a service oriented information system for collaboration between different health care organisations. Partners: S:t Erik's eye hospital, Stockholms läns landsting, OOPix AB. Granter: Vinnova. Grant: 3MSKR, whereof 1MSKR to DSV.
10. *KUBIT*, 2005-2006 – a project aiming at developing and applying methods for collaborations between universities and small and medium sized companies. Granter: Innovationsbron. Grant: 300 kSEK to DSV.
11. *Integrated health care*, 2004 – a project aiming at investigate how patient monitors; other medical equipment; and information systems are used and integrated in critical care departments in European Hospitals. Granter: Spacelab Healthcare (an US company). Grant: 300 kSEK to DSV. (Commissioned research)
12. *Vita Nova and Vita Nova Home*, 2003-2006 – a project aiming at designing, constructing and applying a process management system for flexible integration of health care organizations (hospital, primary care, home health care). Partner: University of Skövde, Skaraborgs sjukhus, Primärvården Hentorp, Capio Diagnostik, Skövde kommun, Falkörings kommun. Granters: Vinnova, KK-stiftelsen and Vårdalstiftelsen. Grant: 1,1 MSEK to DSV.

13. *European Network of Excellence, INTEROP, 2003-2006* – a project aiming at gather practical experiences of and develop method and technology for interoperability between IT systems, IT systems and business, and between organizations. Partners: Several universities and companies in Europe. Granter: European Commission.
14. *INKA, 2003-2006* – a project aiming at developing a process-oriented enterprise system integrating functionality from knowledge and rule based systems. Partners: Hyresgästföreningen Region Västra Sverige, Ibissoft AB. Granter: Vinnova. Grant: 1,5 MSEK to DSV.
15. *Process Broker, 2000-2002* – a project aiming at designing, constructing and applying a process management system for flexible integration of telecom application (at Telia Mobile). Partners: Telia Mobile, Frontec AMT. Granter: NUTEK. Grant: 1 MSKR to DSV.

Review work

I have **reviewed papers** for the following scientific journals: Systems, Signs & Actions, Business & Information Systems Engineering (BISE), Software & Systems Modeling, and Health Informatics Journal.

I have also reviewed papers for the following international conferences: ACM, AMCIS, BPMDS, DESRIST, ECIS, and ICIS.

I have been an **associate editor** for a track entitled "IT Governance and Business-IT Alignment" in the European Conference on Information Systems (ECIS), both for 2016 and 2017 years ECIS conferences.

Moreover, I am part of the **programming committee** for the International Workshop on Adaptive Case Management and other non-workflow approaches to BPM (ACM) and International Workshop on Data Science: Methodologies and Use-Cases (DaS).

Assignments at dissertations

I have been the **opponent at a doctoral dissertation** at Lund University, January 10, 2014, the Faculty of Economics and Management, the Department of Informatics. At the dissertation Nicklas Holmberg defended his PhD thesis "The Purity of Separation of Concerns: The Service Oriented Business Process - a Design Approach for Business Agility". The thesis supervisors were Odd Steen (main) and Sven Carlsson.

I have also been the **opponent at a licentiate dissertation** at Linköping University, April 18, 2012, the Faculty of Philosophy, the Department of Management and Engineering (IEI). At the dissertation Eva Karlsson defended her Lic thesis "Systemutveckling för riskbaserad

tillsyn: Hur verksamhetsanalys på praktikteoretisk grund kan användas för kravfångst”. The thesis supervisors were Karin Axelsson (main), Owen Eriksson, Jörgen Holgersson.

Moreover, I have been a **pre-doc opponent** on theses by Eric Oluf Svee (April 4, 2016) and Elin Uppström, (December 2, 2016), both at the Department of Computer and Systems Sciences, Stockholm University.

5 PEDAGOGICAL EXPERIENCE

5.1 Lecturing & tutoring

Master programme

I am presently responsible for the master's programme in **Open eGovernment**, Department of Computer and Systems Sciences, Stockholm University, which started in autumn 2015. The programme is given as a set of distance courses. I was also the main responsible for developing the programme during 2014 and 2015. The programme has a specific focus on e-service design, business intelligence, decision support systems, and open and big data management for e-Government, but it also include courses in e-democracy, e-governance, requirement engineering, business and security and privacy.

Master courses

I have been **responsible** for and a **teacher** in the following master courses:

- **Open and big data management** (together with Anders Thelemyr) (HT 2016). The course is a distance course.
- **Open e-Government and e-Democracy** (together with Somya Joshi) (HT 2015, HT 2016). The course is a distance course.
- **Model driven development of components** (together with Martin Henkel) (HT 2003, HT 2004, VT 2006, VT 2007, VT 2009, VT 2010),
- **Decision Support System IV1019** (VT 2008, VT 2009),
- **Data Warehousing** (together with Gudrun Jeppesen) (VT 2005).

I have been a **teacher** in the following master courses:

- **Decision Making and Business Intelligence** (VT 2016, VT 2017). The course is a distance course.
- **Enterprise Computing and ERP Systems** (HT 2003, HT 2004, HT 2005, HT 2006, HT 2007, HT 2008, VT 2009, HT 2009, HT 2010, HT 2011, HT 2012, HT 2013, HT 2014, HT2015, HT 2016),
- **Data warehousing** (VT 2001, VT 2002, VT 2003, VT 2004, VT 2006).

I have **developed** the following courses from start:

- Open and big data management (together with Anders Thelemyr)
- Model driven development of components (together with Martin Henkel)
- Decision Support System

Bachelor courses

I have been **responsible** for and a **teacher** in the following bachelor courses:

- **IT in Organizations** (HT 2011, HT 2012, HT 2013, HT 2014, HT 2015, HT 2016)
- **Knowledge management** (VT 2014, VT 2015, HT 2015, HT 2016)
- **Object Oriented Analysis and Design** (HT 2004, HT 2005, HT 2006, HT 2007, HT 2008, HT 2009)

I have been a **teacher** in the following bachelor courses:

- **Object Oriented Analysis and Design** (HT 2010, HT 2011, HT 2012, HT 2013, HT 2014, HT2015, HT 2016)
- **Decision support and business systems** (HT 2014, VT 2015, HT 2015, VT 2016, HT 2016, VT 2017) The course is a distance course.
- **IT in Organizations** (HT 2004, HT 2005, HT 2009, HT 2010).

I have **re-developed** the following courses - more or less totally:

- IT in Organizations (in collaboration with Paul Johannesson)
- Knowledge management
- Object Oriented Analysis and Design

I have also been a teacher in several other bachelor courses at DSV, such as design of relational databases, relational database management systems, IT management, but I have only been partly involved in form of giving a single lecture or carrying out supervision.

Commissioned education

In the course **Advanced course for system developers**, 2G4514, I gave 24 full day lecturing from 2006 and 2010 in the area model driven system development, that is, how to develop software from high level graphical models and automatically generate low level code, or create executable graphical models. I also introduced tools to support model driven development. The students were skilled software developers from Ericsson from all around the world. I was one of the teachers in the course, and the one responsible for model driven system development. (Other subjects in the course were agile software development, security issues in software development, programming languages, etc). The course was financed by Ericsson.

The three-day course **Business Intelligence** was a collaboration between DSV and Dataföreningen Kompetens. The course covered topics such as data warehousing, OLAP, data discovery tools, performance management, KPIs, decision models, different types of BI methods. The course was provided by Dataföreningen Kompetens and the students were mainly project leaders in the area of business intelligence in different private and public organizations. The course started in 2013 and has been given at three occasions between 2013 and 2015. I was one of the three main developers of the course and my total amount of involvement (i.e. lecturing and leading discussions) for each course occasion was around 8 hours.

The eight-day course **Data analytics** was a collaboration between DSV and Dataföreningen Kompetens. The course was provided by Dataföreningen Kompetens and the students that passed were certified in data analytics. The students were mainly projects leaders in business intelligence with skills in IT in private and public organizations. The first occasion of the course was 2015 and the second and third occasions were carried out during 2016. I was one of the four main developer of the course. My total amount of involvement (i.e. lecturing and leading discussions) for each course occasion was 12 hours.

Education at other universities

School of Computing, University of Colombo, Sri Lanka, 2002. Lecturing in e-services, e-commerce, e-commerce standards, and data warehousing. In total: 16 hours education.

University of Jönköping, 2006 and 2007. Lecturing and supervision in data warehousing and dimensional data modelling. In total for two years: 20 hours education.

Research about teaching and learning enterprise modelling

I have participated in two research projects focusing on designing a learning environment for teaching and learning enterprise modelling: Futurelearn, 2013-2014 and CBILE, 2016. In the projects, two major ideas were applied in a number of courses at DSV: 1) reusing the same case in different courses in order to support the students to better understand how different courses within information systems are related, 2) make use of the ideas from apprenticeship, and make the teacher play the role as a master and the student as an apprentice. This work has resulted in a number of papers which I have co-authored, see ([17], [35], [36], [37]). The work was also awarded with Svenska informationssystemakademin's (SISA) pedagogical prize 2017, see <http://sisa-org.se/pressrum/>

5.2 Supervising thesis

I have been the responsible supervisor for 10 examined master thesis, 26 examined magister thesis, and 3 examined bachelor thesis.

I have been a co-supervisor for two examined doctoral theses: Mohamed El-Mekawy (2016) and Meshari Alwazae (2015)

I have been a co-supervisor for one examined licentiate thesis: Mohamed El-Mekawy (2012)

I am currently a co-supervisor for two PhD student: Anders Tell and Parisa Aasi.

5.3 Pedagogical education

I have carried out the following pedagogical courses (Certificates in Appendix 3):

- 2012 - Supervision of research in theory and practice for teachers at Stockholm University (3 ECT)
- 2011 - University Pedagogic 2, Stockholm University (4,5 ECT)
- 2007 - University Pedagogic 1, Stockholm University (2 points=3 ECT)

6 INTERACTION WITH LARGER WORLD

Participation in organizing international scientific events

I have involved in organizing international scientific events in the following way:

- I have been a publicity chair (together with Dimitris Karagiannis and Jolita Ralyte) at 27th International Conference on Advanced Information Systems Engineering (CAiSE, 2015).
- I have been a moderator for a discussion panel with leading researchers in design science: Steven Alter, Matti Rossi, Tuure Tuunanen, John Venable, Roel Wieringa. The theme was “Design Science in Information Systems Engineering”. The discussion panel was part of 27th International Conference on Advanced Information Systems Engineering (CAiSE, 2015).
- I have been a publicity chair (together with Ilia Bider) at 34th International Conference on Conceptual Modeling (ER2015).

Collaboration with private and public organizations

I have collaborated with private and public organizations in the following way:

- Several of the research projects (presented in section 4.3) have been conducted in collaboration with private and public organizations, such as Telia Mobile, Ericsson, Cybercom, Visuera, Ibissoft, Swedish Tax Agency, Swedish Pension Agency,

Stockholms läns landsting, S:t Erik's eye hospital, Nacka kommun, Kungsbacka kommun, Hyresgästföreningen Region Västra Sverige.

- Commissioned education, presented in section 5.1.
- Commissioned research, see research project 11: Integrated health care, 2004 in section 4.3.
- As a participant in the research project *KUBIT, 2005-2006* (see section 4.3), I was during 2006 involved in eight meetings at Stockholms Akademiska Forum (lead by Hans Malmqvist, Stockholms Akademiska Forum) where researchers from Stockholm University, Royal Institute of Technology, and Stockholm School of Economics - as well as representatives for small and medium sized companies (SME:s) - discussed methods and experiences of collaboration between universities and SME:s, and how such collaboration could be enhanced.