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**Author:** Samaemofrad, N.
**Title:** Business incubators: the impact of their support
**Issue Date:** 2021-06-17
Negin Samaemofrad was born in Tehran, Iran on August 1, 1986. She earned her Bachelor’s diploma in the field of Industrial Management in 2008 and received her Master’s in Technology and Innovation Management in 2012.

Following her graduation, she started to work as an international coordinator in an NGO and an innovation consultant in a consultancy firm in Iran. Then she applied for Ph.D. in Leiden University, the Netherlands, in the field of ICT in Business in the department of Advanced Computer Science. She also obtained a Marie Curie Fellowship and was accepted as an external researcher at Leiden University. While she worked on her Ph.D., she collaborated with different business incubators and accelerators as a start-up trainer and coach. Currently, she is working in Gemeente Den Haag as a data analyst.
List of Publications


Acknowledgment

In this second phase of my Ph.D. journey, many people kindly supported me. From them, I would like to single out my first promotor Professor Bernhard Katzy for whom I had deep respect and high appreciation. He was accompanied by my co-promotor Professor Robert Verburg who was also dedicated to my research. To my deep regret, my first promotor passed away in November 2015 and as a consequence, my Ph.D. research was changed. In the remaining short time before his passing away, Professor Katzy provided me with an opportunity to start a new career path and to obtain unique experiences. I should also give special gratitude to Robert Verburg for supporting my first work so far.

Soon after that grim incident of professor Katzy’s passing away, I was privileged to meet a new promotor, Professor Jaap van den Herik. Without his support and guidance, I would not have been able to complete my research. Words fail to describe his support during my research, which definitely crossed the boundaries of my own ideas on the new research topic. He is not just a supervisor but a real mentor who helped me to develop my skills and transformed me into a dedicated researcher. He mentally supported me to overcome challenges not only in this new research field but also in my life. Not every candidate is so lucky to have a promotor like him. I owe many thanks to Jaap van den Herik for teaching me how to structure and write scientific texts, be accurate in my work, develop my analytical and writing skills, and qualify myself as a researcher and data analyst.

Our team was broadened by my second promotor, Professor Simcha Jong Kon Chin. I would also like to give a special word of thanks to Simcha Jong for providing me with great guidance and constructive feedback throughout my Ph.D. process.

During the first three years of my research project, I received support from the international graduate school on Networks, Information Technology & Innovation Management (NITIM). During the summer schools in Trondheim, Bergamo, Milan, Munster, Northern Island, and Leiden, the NITIM committee provided great feedback and support.
I would like to thank particularly, Ozgur Dedehayir from the Queensland University of Technology, Guido Baltes from University of Applied Sciences Konstanz, Stefan Klein from the University Münster, Ulrike Lechner from the University Bw Munich, Roland Ortt from the TU Delft, Christina Weber from the Strascheg Center for Entrepreneurship, Claudia Buecker from Universiteit Leiden, Francesc Miralles from the La Salle Ramon Llull University and Laurent Dupont from Université de Lorraine ENSGSI-ERPI.

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24. Brend Wanders (UT) Repurposing and Probabilistic Integration of Data; An Iterative and data model independent approach
25. Julia Kiseleva (TU/e) Using Contextual Information to Understand Searching and Browsing Behavior
26. Dilhan Thilakarathne (VU) In or Out of Control: Exploring Computational Models to Study the Role of Human Awareness and Control in Behavioural Choices, with Applications in Aviation and Energy Management Domains
27. Wen Li (TUD) Understanding Geo-spatial Information on Social Media
28. Mingxin Zhang (TUD) Large-scale Agent-based Social Simulation - A study on epidemic prediction and control
29. Nicolas Höning (TUD) Peak reduction in decentralised electricity systems - Markets and prices for flexible planning
30. Ruud Mattheij (UvT) The Eyes Have It
31. Mohammad Khelghati (UT) Deep web content monitoring
32. Eelco Vriezekolk (UT) Assessing Telecommunication Service Availability Risks for Crisis Organisations
33. Peter Bloem (UvA) Single Sample Statistics, exercises in learning from just one example
34. Dennis Schunselaar (TU/e) Configurable Process Trees: Elicitation, Analysis, and Enactment
35. Zhaochun Ren (UvA) Monitoring Social Media: Summarization, Classification and Recommendation
36. Daphne Karreman (UT) Beyond R2D2: The design of nonverbal interaction behavior optimized for robot-specific morphologies
37. Giovanni Sileno (UvA) Aligning Law and Action - a conceptual and computational inquiry
38. Andrea Minuto (UT) MATERIALS THAT MATTER - Smart Materials meet Art & Interaction Design
39. Merijn Bruijnes (UT) Believable Suspect Agents; Response and Interpersonal Style Selection for an Artificial Suspect
40. Christian Detweiler (TUD) Accounting for Values in Design
41. Thomas King (TUD) Governing Governance: A Formal Framework for Analysing Institutional Design and Enactment Governance
42. Spyros Martzoukos (UvA) Combinatorial and Compositional Aspects of Bilingual Aligned Corpora
43. Saskia Koldijk (RUN) Context-Aware Support for Stress Self-Management: From Theory to Practice
44. Thibault Sellam (UvA) Automatic Assistants for Database Exploration
45. Bram van de Laar (UT) Experiencing Brain-Computer Interface Control
46. Jorge Gallego Perez (UT) Robots to Make you Happy
47. Christina Weber (UL) Real-time foresight - Preparedness for dynamic innovation networks
48. Tanja Buttler (TUD) Collecting Lessons Learned
49. Gleb Polevoy (TUD) Participation and Interaction in Projects. A Game-Theoretic Analysis
50. Yan Wang (UvT) The Bridge of Dreams: Towards a Method for Operational Performance Alignment in IT-enabled Service Supply Chains

2017

1. Jan-Jaap Oerlemans (UL) Investigating Cybercrime
2. Sjoerd Timmer (UU) Designing and Understanding Forensic Bayesian Networks using Argumentation
3. Daniël Harold Telgen (UU) Grid Manufacturing: A Cyber-Physical Approach with Autonomous Products and Reconfigurable Manufacturing Machines
4. Mrunal Gawade (CWI) Multi-Core Parallelism In A Column-Store
5. Mahdieh Shadi (UvA) Collaboration Behavior
6. Damir Vandic (EUR) Intelligent Information Systems for Web Product Search
7. Roel Bertens (UU) Insight in Information: from Abstract to Anomaly
8. Rob Konijn (VU) Detecting Interesting Differences: Data Mining in Health Insurance Data using Outlier Detection and Subgroup Discovery
9. Dong Nguyen (UT) Text as Social and Cultural Data: A Computational Perspective on Variation in Text
10. Robby van Delden (UT) (Steering) Interactive Play Behavior
11. Florian Kunneman (RUN) Modelling patterns of time and emotion in Twitter #anticipointment
12. Sander Leemans (TU/e) Robust Process Mining with Guarantees
13. Gijs Huisman (UT) Social Touch Technology - Extending the reach of social touch through haptic technology
14. Shoshannah Tekofsky (UvT) You Are Who You Play You Are: Modelling Player Traits from...
Video Game Behavior
15. Peter Berck, Radboud University (RUN) Memory-Based Text Correction
16. Aleksandr Chuklin (UvA) Understanding and Modeling Users of Modern Search Engines
17. Daniel Dimov (UL) Crowdsourced Online Dispute Resolution
18. Ridho Reinanda (UvA) Entity Associations for Search
19. Jeroen Vuurens (TUD) Proximity of Terms, Texts and Semantic Vectors in Information Retrieval
20. Mohammadbashir Sedighi (TUD) Fostering Engagement in Knowledge Sharing: The Role of Perceived Benefits, Costs and Visibility
21. Jeroen Linssen (UT) Meta Matters in Interactive Storytelling and Serious Gaming (A Play on Worlds)
22. Sara Magliacane (VU) Logics for causal inference under uncertainty
23. David Graus (UvA) Entities of Interest--- Discovery in Digital Traces
25. Veruska Zamborlini (VU) Knowledge Representation for Clinical Guidelines, with applications to Multimorbidity Analysis and Literature Search
26. Merel Jung (UT) Socially intelligent robots that understand and respond to human touch
27. Michiel Joosse (UT) Investigating Positioning and Gaze Behaviors of Social Robots: People's Preferences, Perceptions and Behaviors
29. Adel Alhuraibi (UvT) From IT-Business Strategic Alignment to Performance: A Moderated Mediation Model of Social Innovation, and Enterprise Governance of IT
30. Wilma Latuny (UvT) The Power of Facial Expressions
31. Ben Ruijl (UL) Advances in computational methods for QFT calculations
32. Thaer Samar (RUN) Access to and Retrievability of Content in Web Archives
34. Maren Scheffel (OU) The Evaluation Framework for Learning Analytics
35. Martine de Vos (VU) Interpreting natural science spreadsheets
36. Yuanhao Guo (UL) Shape Analysis for Phenotype Characterisation from High-throughput Imaging
37. Alejandro Montes Garcia (TU/e) WiBAF: A Within Browser Adaptation Framework that Enables Control over Privacy
38. Alex Kayal (TUD) Normative Social Applications
39. Sara Ahmadi (RUN) Exploiting properties of the human auditory system and compressive sensing methods to increase noise robustness in ASR
40. Altaf Hussain Abro (VU) *Steer your Mind: Computational Exploration of Human Control in Relation to Emotions, Desires and Social Support For applications in human-aware support systems*"  
41. Adnan Manzoor (VU) *Minding a Healthy Lifestyle: An Exploration of Mental Processes and a Smart Environment to Provide Support for a Healthy Lifestyle*  
42. Elena Sokolova (RUN) *Causal discovery from mixed and missing data with applications on ADHD datasets*  
43. Maaike de Boer (RUN) *Semantic Mapping in Video Retrieval*  
44. Garm Lucassen (UU) *Understanding User Stories - Computational Linguistics in Agile Requirements Engineering*  
45. Bas Testerink (UU) *Decentralized Runtime Norm Enforcement*  
46. Jan Schneider (OU) *Sensor-based Learning Support*  
47. Yie Yang (TUD) *Crowd Knowledge Creation Acceleration*  
48. Angel Suarez (OU) *Collaborative inquiry-based learning*  

**2018**  
1. Han van der Aa (VU) *Comparing and Aligning Process Representations*  
2. Felix Mannhardt (TU/e) *Multi-perspective Process Mining*  
3. Steven Bosems (UT) *Causal Models For Well-Being: Knowledge Modeling, Model-Driven Development of Context-Aware Applications, and Behavior Prediction*  
4. Jordan Janeiro (TUD) *Flexible Coordination Support for Diagnosis Teams in Data-Centric Engineering Tasks*  
5. Hugo Huurdeman (UvA) *Supporting the Complex Dynamics of the Information Seeking Process*  
7. Jieting Luo (UU) *A formal account of opportunism in multi-agent systems*  
8. Rick Smetsers (RUN) *Advances in Model Learning for Software Systems*  
9. Xu Xie (TUD) *Data Assimilation in Discrete Event Simulations*  
10. Julienka Mollee (VU) *Moving forward: supporting physical activity behavior change through intelligent technology*  
11. Mahdi Sargolzaei (UvA) *Enabling Framework for Service-oriented Collaborative Networks*  
12. Xixi Lu (TU/e) *Using behavioral context in process mining*  
13. Seyed Amin Tabatabaei (VU) *Using behavioral context in process mining: Exploring the added value of computational models for increasing the use of renewable energy in the residential sector*  
14. Bart Joosten (UvT) *Detecting Social Signals with Spatiotemporal Gabor Filters*
15. Naser Davarzani (UM) *Biomarker discovery in heart failure*
16. Jaebok Kim (UT) *Automatic recognition of engagement and emotion in a group of children*
17. Jianpeng Zhang (TU/e) *On Graph Sample Clustering*
18. Henriette Nakad (UL) *De Notaris en Private Rechtspraak*
19. Minh Duc Pham (VU) *Emergent relational schemas for RDF*
20. Manxia Liu (RUN) *Time and Bayesian Networks*
21. Aad Slootmaker (OU) *EMERGO: a generic platform for authoring and playing scenario-based serious games*
22. Eric Fernandes de Mello Araújo (VU) *Contagious: Modeling the Spread of Behaviours, Perceptions and Emotions in Social Networks*
23. Kim Schouten (EUR) *Semantics-driven Aspect-Based Sentiment Analysis*
25. Riste Gligorov (VU) *Serious Games in Audio-Visual Collections*
26. Roelof de Vries (UT) *Theory-Based And Tailor-Made: Motivational Messages for Behavior Change Technology*
27. Maikel Leemans (TU/e) *Hierarchical Process Mining for Scalable Software Analysis*
28. Christian Willemse (UT) *Social Touch Technologies: How they feel and how they make you feel*
29. Yu Gu (UvT) *Emotion Recognition from Mandarin Speech*
30. Wouter Beek (VU) *The “K” in "semantic web” stands for “knowledge”: scaling semantics to the web*

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2019

1. Rob van Eijk (UL) *Web privacy measurement in real-time bidding systems. A graph-based approach to RTB system classification*
2. Emmanuelle Beauxis- Aussalet (CWI, UU) *Statistics and Visualizations for Assessing Class Size Uncertainty*
3. Eduardo Gonzalez Lopez de Murillas (TU/e) *Process Mining on Databases: Extracting Event Data from Real Life Data Sources*
4. Ridho Rahmadi (RUN) *Finding stable causal structures from clinical data*
5. Sebastiaan van Zelst (TU/e) *Process Mining with Streaming Data*
6. Chris Dijkshoorn (VU) *Nichesourcing for Improving Access to Linked Cultural Heritage Datasets*
7. Soude Fazeli (TUD) *Recommender Systems in Social Learning Platforms*
9. Fahimeh Alizadeh Moghaddam (UvA) *Self-adaptation for energy efficiency in software*
10. Qing Chuan Ye (EUR) Multi-objective Optimization Methods for Allocation and Prediction
11. Yue Zhao (TUD) Learning Analytics Technology to Understand Learner Behavioral Engagement in MOOCs
12. Jacqueline Heinerman (VU) Better Together
13. Guanliang Chen (TUD) MOOC Analytics: Learner Modeling and Content Generation
14. Daniel Davis (TUD) Large-Scale Learning Analytics: Modeling Learner Behavior & Improving Learning Outcomes in Massive Open Online Courses
15. Erwin Walraven (TUD) Planning under Uncertainty in Constrained and Partially Observable Environments
16. Guangming Li (TU/e) Process Mining based on Object-Centric Behavioral Constraint (OCBC) Models
17. Ali Hurriyetoglu (RUN) Extracting actionable information from microtexts
18. Gerard Wagenaar (UU) Artefacts in Agile Team Communication
20. Chide Groenouwe (UU) Fostering technically augmented human collective intelligence
21. Cong Liu (TU/e) Software Data Analytics: Architectural Model Discovery and Design Pattern Detection
22. Martin van den Berg (VU) Improving IT Decisions with Enterprise Architecture
23. Qin Liu (TUD) Intelligent Control Systems: Learning, Interpreting, Verification
24. Anca Dumitrache (VU) Truth in Disagreement- Crowdsourcing Labeled Data for Natural Language Processing
25. Emiel van Miltenburg (UvT) Pragmatic factors in (automatic) image description
27. Alessandra Antonaci (OU) The Gamification Design Process applied to (Massive) Open Online Courses
28. Esther Kuindersma (UL) Cleared for take-off: Game-based learning to prepare airline pilots for critical situations
29. Daniel Formolo (VU) Using virtual agents for simulation and training of social skills in safety-critical circumstances
30. Vahid Yazdanpanah (UT) Multiagent Industrial Symbiosis Systems
32. Chiara Sironi (UM) Monte-Carlo Tree Search for Artificial General Intelligence in Games
33. Anil Yaman (TU/e) Evolution of Biologically Inspired Learning in Artificial Neural Networks
34. Negar Ahmadi (TU/e) EEG Microstate and Functional Brain Network Features for Classification of Epilepsy and PNES
35. Lisa Facey-Shaw (OU) *Gamification with digital badges in learning programming*
36. Kevin Ackermans (OU) *Designing Video-Enhanced Rubrics to Master Complex Skills*
37. Jian Fang (TUD) *Database Acceleration on FPGAs*
38. Akos Kadar (OU) *Learning visually grounded and multilingual representations*

**2020**

1. Armon Toubman (UL) *Calculated Moves: Generating Air Combat Behaviour*
3. Mostafa Deghani (UvA) *Learning with Imperfect Supervision for Language Understanding*
4. Maarten van Gompel (RUN) *Context as Linguistic Bridges*
5. Yulong Pei (TU/e) *On local and global structure mining*
6. Preethu Rose Anish (UT) *Stimulation Architectural Thinking during Requirements Elicitation - An Approach and Tool Support*
7. Wim van der Vegt (OU) *Towards a software architecture for reusable game components*
8. Ali Mirsoleimani (UL) *Structured Parallel Programming for Monte Carlo Tree Search*
9. Myriam Traub (UU) *Measuring Tool Bias & Improving Data Quality for Digital Humanities Research*
10. Alifah Syamsiyah (TU/e) *In-database Preprocessing for Process Mining*
11. Sepideh Mesbah (TUD) *Semantic-Enhanced Training Data Augmentation Methods for Long-Tail Entity Recognition Models*
12. Ward van Breda (VU) *Predictive Modeling in E-Mental Health: Exploring Applicability in Personalised Depression Treatment*
14. Mark Raasveldt (CWI/UL) *Integrating Analytics with Relational Databases*
15. Konstantinos Georgiadis (OU) *Smart CAT: Machine Learning for Configurable Assessments in Serious Games*
16. Ilona Wilmont (RUN) *Cognitive Aspects of Conceptual Modelling*
17. Daniele Di Mitri (OU) *The Multimodal Tutor: Adaptive Feedback from Multimodal Experiences*
18. Georgios Methenitis (TUD) *Agent Interactions & Mechanisms in Markets with Uncertainties: Electricity Markets in Renewable Energy Systems*
19. Guido van Capelleveen (UT) *Industrial Symbiosis Recommender Systems*
20. Albert Hankel (VU) *Embedding Green ICT Maturity in Organisations*
21. Karine da Silva Miras de Araujo (VU) *Where is the robot?: Life as it could be*
22. Maryam Masoud Khamis (RUN) *Understanding complex systems implementation through a...*
modeling approach: the case of e-government in Zanzibar
23. Rianne Conijn (UT) *The Keys to Writing: A writing analytics approach to studying writing processes using keystroke logging*

24. Lenin da Nobrega Medeiros (VU/RUN) *How are you feeling, human? Towards emotionally supportive chatbots*

25. Xin Du (TU/e) *The Uncertainty in Exceptional Model Mining*

26. Krzysztof Leszek Sadowski (UU) *GAMBIT: Genetic Algorithm for Model-Based mixed-Integer opTimization*

27. Ekaterina Muravyeva (TUD) *Personal data and informed consent in an educational context*

28. Bibeg Limbu (TUD) *Multimodal interaction for deliberate practice: Training complex skills with augmented reality*

29. Ioan Gabriel Bucur (RUN) *Being Bayesian about Causal Inference*

30. Bob Zadok Blok (UL) *Creatief, Creatieve, Creatiefst*

31. Gongjin Lan (VU) *Learning better -- From Baby to Better*

32. Jason Rhuggenaath (TU/e) *Revenue management in online markets: pricing and online advertising*

33. Rick Gilsing (TU/e) *Supporting service-dominant business model evaluation in the context of business model innovation*

34. Anna Bon (MU) *Intervention or Collaboration? Redesigning Information and Communication Technologies for Development*

35. Siamak Farshidi (UU) *Multi-Criteria Decision-Making in Software Production*

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2021

1. Francisco Xavier Dos Santos Fonseca (TUD) *Location-based Games for Social Interaction in Public Space*

2. Rijk Mercuur (TUD) *Simulating Human Routines: Integrating Social Practice Theory in Agent-Based Models*

3. Seyyed Hadi Hashemi (UvA) *Modeling Users Interacting with Smart Devices*

4. Ioana Jivet (OU) *The Dashboard That Loved Me: Designing adaptive learning analytics for self-regulated learning*

5. Davide Dell’Anna (UU) *Data-Driven Supervision of Autonomous Systems*

6. Daniel Davison (UT) “Hey robot, what do you think?” How children learn with a social robot

7. Armel Lefebvre (UU) *Research data management for open science*

8. Nardie Fanchamps (OU) *The Influence of Sense-Reason-Act Programming on Computational Thinking*

Robots to Promote Children’s Collaboration Through Play

10. Quinten Meertens (UvA) Misclassification Bias in Statistical Learning

11. Anne van Rossum (UL) Nonparametric Bayesian Methods in Robotic Vision

12. Lei Pi (UL) External Knowledge Absorption in Chinese SMEs


14. Negin Samaemofrad (UL) Business Incubators: The Impact of Their Support