



6th edition of
**The Innovation in Information
Infrastructures (III) Workshop**

18 – 20 September 2019

Surrey Business School, University of Surrey, Guildford



IIIW2019 – The programme at a glance

Wednesday 18 September

9.00 – 10.00 Registration – Coffee Break – MS Foyer

10.00 – 11.00 Keynote – Annabelle Gawer

The Business of Platforms: Strategy in the Age of Digital Competition, Innovation, and Power – 03 MS 01

11.00 – 11.30 Coffee Break – MS Foyer

11.30 – 13.00 Parallel Sessions

Session 1 – 03 MS 01

Session 2 – 39 MS 02

Session 3 – 32 MS 03

13.00 – 14.00 Lunch – MS Foyer

14.00 – 15.30 Parallel Sessions

Session 4 – 03 MS 01

Session 5 – 39 MS 02

Session 6 – 32 MS 03

15.30 – 16.00 Coffee Break - MS Foyer

16.00 – 17.30 Parallel Sessions

Session 7 – 03 MS 01

Session 8 – 39 MS 02

Session 9 – 32 MS 03

17.30 – 19.30 Welcome Reception – Lakeside Restaurant

Thursday 19 September

9.00 – 9.30 Coffee Break – MS Foyer

9.30 – 11.00 Panel

Data, Ecosystems and Complementarities – 03 MS 01

Chair: Ioanna Constantiou

Participants: Carmelo Cennamo, Jannis Kallinikos, Eric Monteiro

11.00 – 11.30 Coffee Break – MS Foyer

11.30 – 13.00 Parallel Sessions

Session 10 – 32 MS 03

Session 11 – 39 MS 02

13.00 – 14.00 Lunch – MS Foyer

14.00 – 15.30 Panel

Platformization – 03 MS 01

Chair: Carsten Sørensen

Participants: Ole Hanseth, Anne Helmond, Pinar Ozcan

15.30 – 16.00 Coffee Break – MS foyer

16.00 – 17.30 Parallel Sessions

Session 12 – 32 MS 03

Session 13 – 39 MS 02

19.30 Dinner at the Lakeside Restaurant

Friday 20 September

9.00 – 9.30 Coffee Break – MS foyer

9.30 – 10.30 Keynote – Youngjin Yoo – *Artificial Intelligence as Information Infrastructure and the Future of a Firm* – 03 MS 01

10.30 – 11.00 Coffee Break – MS foyer

11.00 – 11.30 Parallel Sessions

Session 14 – 32 MS 03

Session 15 – 39 MS 02

12.30 – 13.30 Lunch – MS foyer

13.30 – 15.00 Panel

Summing up and future directions – 03 MS 01

Chair: Elena Parmiggiani

Participants: Jochem Hummel, Jan Ljungberg and Silvia Masiero

15.00 – 15.30 Coffee break and arrivederci! – MS foyer

15.30 – 16.30 III Standing Committee Meeting – 39 MS 02

IIIW2019 - The Detailed Programme

Wednesday 18 September

9.00 – 10.00 Registration – Coffee Break – MS Foyer

10.00-11.00 Keynote – Annabelle Gawer – 03 MS 01

The Business of Platforms: Strategy in the Age of Digital Competition, Innovation, and Power

Abstract

In her keynote, Professor Annabelle Gawer will present a selection of insights from her new book “The Business of Platforms”, which explains how a small number of companies have come to exert extraordinary influence over every dimension of our personal, professional, and political lives.

She will explain how these new entities differ from the powerful corporations of the past. They also question whether there are limits to the market dominance and expansion of these digital juggernauts. She will discuss the role governments should play in rethinking data privacy laws, antitrust laws, and other regulations that could reign in abuses from these powerful businesses. She will suggest that today’s dominant platforms such as Google, Amazon, and Facebook are providing and governing private digital infrastructures that mediate and influence the way we transact and innovate.

11.00 – 11.30 Coffee Break – MS Foyer

11.30 – 13.00 Parallel Sessions: 1, 2, 3

Session 1 – Infrastructures vs. Platforms

Session Chair: Richard Tee – 03 MS 01

Papers:

10 The Infrastructuring of Platforms and the Platforming of Infrastructures, *Amber Geurts and Katharina Cepa*

42 The Emergence of Industrial IoT: Strategic Considerations for Infrastructures and Platforms, *Tomoko Yokoi and Nikolaus Obwegeser*

13 An Infrastructure-based View of Digital Platforms, *Richard Tee*

Session 2 – Infrastructures vs. Blockchain

Session Chair: Boriana Rukanova – 39 MS 02

Papers:

16 Developing Large Scale B2B Blockchain Architectures for Global Trade Lane: Are the design principles derived based on the upscaling of the Internet applicable for up-scaling global blockchain-enabled infrastructures?, *Yao Hua Tan, Boriana Rukanova, Sélinde van Engelenburg, Jolien Ubacht and Marijn Janssen*

37 Towards a Blockchain Infrastructure Framework: Coin, Infrastructure, and Community from Bitcoin to Libra, *Enrico Rossi and Carsten Sørensen*

43 Platformization of Technology dominance: the case study of developing cryptocurrencies on GitHub, *Farjam Eshraghian and Najmeh Hafezieh*

Session 3 – (Un)intended consequences

Session Chair: Silvia Masiero – 32 MS 03

Papers:

44 ‘Bad generativity’ of platforms for development: Lessons from India’s digitally-enabled social protection system, *Silvia Masiero and Viktor Arvidsson*

41 Bootstrapping and Persuasive tactics to initiate growth in online community platforms, *Tomas Lindroth*

20 Social Media as a Complementary Asset for Organizations, *Anil Doshi and Shiladitya Ray*

13.00 – 14.00 Lunch – MS Foyer

14.00 – 15.30 Parallel Sessions: 4, 5, 6

Session 4 – Large Scale Projects

Session Chair: Jochem Hummel – 03 MS 01

Papers:

22 Digital Trade Infrastructures and Big Data Analytics: The concept of Value as a Linking Pin: Insights from the ITAIDE, CASSANDRA, CORE, and PROFILE projects for scaling-up digital trade infrastructures and for piloting with big data analytics solutions, *Boriana Rukanova and Yao Hua Tan*

30 What do we have in common? A study on the development of an infrastructure of common resources by a distributed collaboration of “big science” and “big business” organizations, *Jochem Hummel, Hans Berends and Philipp Tuertscher*

17 Multiplicity, data asymmetries and overlapping in the integration of platform ecosystems: Governance and social learning in the infrastructuring of a large-scale Shared Care Record in England, *Andrey Elizondo*

Session 5 – Infrastructures in Higher Education

Session Chair: Bendik Bygstad – 39 MS 02

Papers:

3 Strategizing digital infrastructures in higher education, *Egil Øvrelid, Per Grøttum and Hilde Westbye*

25 A national digital infrastructure for higher education, *Bendik Bygstad, Egil Øvrelid and Lars Oftedal*

47 Between a data ecosystem and a data infrastructure. The design, development and implementation of a Learning Analytics platform in the UK, *Marta Stelmaszak*

Session 6 – Emergent Ecosystems

Session Chair: Justin Keen – 32 MS 03

Papers:

15 Mutual agreements in cloud-based ecosystems: data controls in the banking sector, *Niloofer Kazemargi, Paolo Spagnoletti, Panos Constantinides and Andrea Prencipe*

19 Understanding the role of digital platforms in sustainability transitions, *Margunn Aanestad, Ole Hanseth and Tor Rolfsen Grønsund*

5 New trains on old tracks: prospects for infrastructures and ecosystems in health and social care, *Justin Keen*

15.30 – 16.00 Coffee Break – MS Foyer

16.00 – 17.30 Parallel Sessions: 7, 8, 9

Session 7 – Design Theory

Session Chair: Federica Ceci – 03 MS 01

Papers:

36 A design theory for collaborative monitoring platforms in digital infrastructures, *Paolo Spagnoletti, Federica Ceci and Andrea Prencipe*

33 History-based exploratory modelling: Some elements of a design theory, *Thomas Østerlie, Elena Parmiggiani and Petter Almklov*

4 Design Infrastructures in Global Software Platform Ecosystems, *Magnus Li and Petter Nielsen*

Session 8 – Platform Ecosystems

Session Chair: Maximilian Schreieck – 39 MS 02

Papers:

45 Hardware-layer Dynamics and Governance in Mobile Platform Ecosystems, *Roman Zeiss, Jan Recker and Mario Müller*

7 Cars as Digital Infrastructure: An Analysis of Platform Ecosystem Options in the Automotive Industry, *Niklas Weiß, Maximilian Schreieck, Manuel Wiesche and Helmut Krcmar*

21 Understanding how privacy-preserving technologies transform data marketplace platforms and ecosystems: the case of multi-party computation, *Wirawan Agahari, Mark de Reuver and Tobias Fiebig*

Session 9 – Openness in Platforms and Infrastructures

Session Chair: Ben Eaton – 32 MS 03

Papers:

9 Governing the Supply Side of Open Data Platforms: The Case of Buenos Aires, *Carla Bonina, Ben Eaton and Stefan Henningsson*

24 Governing Data Commons: Open Targets, *Laia Pujol Priego and Jonathan Wareham*

2 Distributed Infrastructuring and Innovation in IoT: The Case of The Things Network, *Andres Dominguez*

17.30 – 19.30 Welcome Reception – Lakeside Restaurant

Thursday 19 September

9.00 – 9.30 Coffee Break – MS Foyer

9.30 – 10.00 Panel – Data, Ecosystems and Complementarities

Chair: Ioanna Constantiou

Participants: Carmelo Cennamo, Jannis Kallinikos, Eric Monteiro

03 MS 01

11.00 – 11.30 Coffee Break – MS Foyer

11.30 – 13.00 Parallel Sessions: 10, 11

Session 10 – Ecosystem research

Session Chair: Lara-Kristin Baszok – 32 MS 03

Papers:

11 Transitioning into a Socio-technical digital infrastructure and the role of complementor exclusivity & types of complementors in the paradoxes of change and control -An in-depth case study on connected-health insurance platform ecosystem, *Vidya Oruganti*

6 The evolvement of ecosystem research in business and management – a review of the literature, *Lara-Kristin Baszok, Beatrice D'Ippolito and Fu Jia*

1 The Digital Entrepreneurial Ecosystem – A Critique and Reconfiguration, *Abraham Song*

Session 11 – Data Ecosystems

Session Chair: Cristina Alaimo – 39 MS 02

Papers:

12 Embeddedness and brokers in ecosystems, *Lene Pettersen and Ole Hanseth*

14 Data as fluid accomplishments in digital infrastructure, *Elena Parmiggiani, Petter Grytten Almklov, Thomas Østerlie and Eric Monteiro*

18 Data and ecosystems: a study of the evolution of tripadvisor, *Cristina Alaimo, Jannis Kallinikos and Erika Valderrama- Venegas*

13.00 – 14.00 Lunch – MS Foyer

14.00 – 15.30 Panel – Platformization

Chair: Carsten Sørensen

Participants: Ole Hanseth, Anne Helmond, Pinar Ozcan

03 MS 01

15.30 – 16.00 Coffee Break – MS Foyer

16.00 – 17.30 Parallel Sessions: 12, 13

Session 12 – Platformization and Infrastructuring

Session Chair: Jan Ljungberg – 32 MS 03

Papers:

35 Sustainable Platformization of Preventive Healthcare, *Troels Mønsted*

32 Shared Source Infrastructuring in Platform Ecosystems, *Sven-Volker Rehm, Lakshmi Goel and Iris Junglas*

39 The platformization of cloud services, *Mikael Gustavsson and Jan Ljungberg*

Session 13 – Principles of Design

Session Chair: Margunn Aanestad – 39 MS 02

Papers:

23 Isolation, Recombination, Enrolment: Innovation in Digital Health Infrastructures, *Alexander Kempton, Miria Grisot and Margunn Aanestad*

31 Questioning the modularity principle dealing with the “circulation of agency” problem in two judicial digital infrastructures, *Andrea Resca and Federico Iannacci*

34 APIs as Social Interfaces, *Tatjana Seitz*

19.30 Dinner at the Lakeside Restaurant

Friday 20 September

9.00 – 9.30 Coffee Break – MS Foyer

9.30 – 10.30 Keynote – Youngjin Yoo – 03 MS 01

Artificial Intelligence as Information Infrastructure and the Future of a Firm

Abstract

In this talk, I develop two interrelated ideas. First, I put forward the notion that it is beneficial to conceptualize artificial intelligence (AI) as an assemblage of distributed heterogeneous computing resources, autonomous algorithm, and ever-changing data, in short, information infrastructure. By seeing AI as assemblage, I explicitly recognize that “intelligence” of AI is a dynamic emergent property of the temporary and dynamic binding of distributed and heterogeneous hardware, software and data in information infrastructure. Just like intelligence emerges from temporary connections among neurons — one that is actualized instance out of innumerable other possible such connections —, artificial intelligence must be understood as actualized instances of connections among heterogeneous and distributed elements in vast information infrastructure, out of innumerable other possible connections among distributed and heterogeneous elements in information infrastructure. Such a distributed and infrastructure-centric view of AI, contrary to a view that sees AI as a discrete container of algorithms, provides a plausible explanation on the historical evolution of AI. More importantly, it recognizes the multiplicity, temporality, and situationality of emergent intelligence of AI.

Second, given the increasingly important role that emergent intelligence of AI in firms, I argue that we need a new theory of a firm that recognizes how information infrastructure is centrally integrated in the value creation process by which algorithms mobilize deferred, temporary, situational, and recombinant assemblage of material physical and non-material digital assets to produce marketable goods and services. The emergent intelligence of algorithms then must be treated as the core element of any attempt to build a new theory of a firm. This will lead to the unbundling and re-bundling of the traditional firms, and the contemporary digital innovation phenomenon like digital platform ecosystems must be understood in this context. I will use the digital transformation of healthcare as an empirical illustration to support this argument. I will conclude by speculating theoretical and managerial implications of the emergence of the new model of a firm.

10.30 – 11.00 Coffee Break – MS Foyer

11.00 – 11.30 Parallel Sessions: 14, 15

Session 14 – Digital Innovation

Session Chair: Mina Haghshenas – 32 MS 03

Papers:

27 Strategize Digital Infrastructuring - Bridging the Document Platforms in International Containerized Supply Chains, *Thomas Jensen and Carsten Sørensen*

26 Digital infrastructure innovation vs digital innovation in infrastructure: Digital transformation in the offshore construction industry, *Mina Haghshenas and Thomas Østerlie*

28 Why would anyone develop a generic application for a global public good innovation platform?, *Scott Russpatrick*

Session 15 – Platform Theory

Session Chair: Robin Williams – 39 MS 02

Papers:

29 Building collective partnerships for service innovation in e-health information infrastructure: from institutional logics' perspective, *Jiang Yu, Jing Jin and Robin Williams*

46 The Technical IS Political: Rules, Roles and Digital Platforms in an International Standards Process, *Samer Abdelnour*

8 Liquid Ethics and Adiaphorization: Exploring the influence of external digital platforms on user organization, *Sung Hwan Chai, Brian Nicholson, Robert Scapens and Chunlei Yang*

12.30 – 13.30 Lunch – MS Foyer

13.30 – 15.00 Panel – Summing up and future directions

Chair: Elena Parmiggiani

Participants: Jochem Hummel, Jan Ljungberg and Silvia Masiero

03 MS 01

15.00 – 15.30 Coffee break and arrivederci! – MS Foyer

15.30 – 16.30 III Standing Committee Meeting – 39MS02

IIIW2019

Organizing committee

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IIIW2019 – Keynote Speakers



Annabelle Gawer

Annabelle Gawer is a world-class academic pioneer in platform strategy, a thought-leader and expert advisor on the business of digital platforms and platform-based innovation ecosystems. Author of 20 articles on platforms and of 4 books (including the newly published *The Business of Platforms: Strategy in the Age of Digital Competition, Innovation, and Power* with Michael Cusumano, MIT and David Yoffie, Harvard Business School), Professor Gawer's research has been featured by the BBC, and in *The New York Times*, *The London Times*, *The Financial Times*, *The Economist*, the *Harvard Business Review*, and *The Wall Street Journal*.

Professor Gawer advises the European Commission on the regulation of online platforms as an expert member of the European Commission's Observatory of the Online Platform Economy. She has also advised the UK Parliament House of Lords, the UK Government, and the OECD. She regularly consults for major international corporations on platform and ecosystem strategy.



Youngjin Yoo

Youngjin Yoo is the Elizabeth M. and William C. Treuhaft Professor in Entrepreneurship and Professor of Information Systems at the Department of Design & Innovation at the Weatherhead School of Management, Case Western Reserve University. An Association of Information Systems Fellow, he is also WBS Distinguished Research Environment Professor at Warwick Business School, UK and a Visiting Professor at the London School of Economics, UK. He is the Founding Faculty Director of xLab at Case Western Reserve University. He has worked as Innovation Architect at the University Hospitals in Cleveland, overseeing the digital transformation efforts at one of the largest teaching hospital systems in the country.

He studies digital innovation and his publishes at leading academic journals such as MIS Quarterly, Information Systems Research, Organization Science, the Communications of the ACM, and the Academy of Management Journal among others. His 2010 information systems research article is the most influential paper in digital innovation according to Google Scholar.

He has received over \$4.5 million in research grant from National Science Foundation, NASA, James S. and John L. Knight Foundation, the Department of Commerce, National Research Foundation of Korea, and Samsung Electronics. He was Senior Editor of MIS Quarterly, the Journal of AIS, and the Journal Information Technology, and is on the editorial board of Organization Science, Scandinavian Journal of Information Systems, and Information and Organization.

He was a former senior editor of the Journal of Strategic Information Systems and an associate editor of Information Systems Research and Management Science. He has worked with leading companies including Samsung, LG, University Hospitals in Cleveland, American Greetings, Progressive Insurance, Goodyear Tire, Sotera Health, Moen, Intel, IDEO, Gehry and Partners, NASA, Parker Hannifin, Poly One and the Department of Housing and Urban Development.

IIIW2019 – Panel Participants

Data, Ecosystems and Complementarities

Ioanna Constantiou

Ioanna Constantiou is Professor of Information Systems Adoption at the Department of Digitalization in Copenhagen Business School and is employed part-time as a professor of Information Systems at the Department of Applied IT in University of Gothenburg in Sweden. Her current research work focuses on the impact of digital platforms in traditional industries as well as on digital transformation and business strategy. Her research has been published in a number of academic outlets, including, the Journal of Information Technology, the Journal of Strategic Information Systems, the European Journal of Information Systems, the Decision Support Systems and MISQ Executive.

Carmelo Cennamo

Carmelo Cennamo is professor in the Strategy and Innovation department at Copenhagen Business School (Denmark) where he is co-director of the MBA program, Entrepreneurship concentration. He is the academic director of the research project on “Platform Economy and Disruption” at the digital DEVO Lab, SDA Bocconi, School of Management (Italy) – a project analyzing the penetration and impact of the platform economy in more traditional settings, and the extent and ways platform technologies have the potential to disrupt incumbents’ business and operations through innovations in new market design. Prof. Cennamo’s research focuses on competitive dynamics in platform markets and strategies for managing platform ecosystems. Expert, and recognized thought leader on platform economy and ecosystems, his work on competitive dynamics in platform markets, and value creation-capture in platform ecosystems has been recognized as an influential contribution to the theory of platform competition and ecosystems, uncovering the strategic tradeoffs and potential pitfalls that startups and big corporations alike confront while building platform-based business models. Recently, his focus is on the impact of platforms on traditional sectors, and the policy implications in terms of market definition, competition, and antitrust. His recent studies on the hotel industry, blockchain-based ICOs, and on the digital news aggregators show the limitations of current frameworks and policies in capturing the peculiarities of platform markets. Prof. Cennamo’s work appears in important scholarly outlets including Organization Science, Strategic Management Journal, Information Systems Research, Academy of Management Perspectives, Journal of Management, Journal of Management Studies, Research Policy, Entrepreneurship Theory & Practice, MIT Sloan Management Review, California Management Review, and has been prized with prestigious acknowledgments and awards, including Best Paper Award (finalist, 2017) from the Academy of Management, Best Paper Prize (finalist) from the Strategic Management Society (2014, 2018), Best Paper Proceedings (2017, 2015, 2013), Best Dissertation Award (finalist, 2011), Distinguished Student Paper Award (2010), and Outstanding Reviewer Award (2009, 2010, 2011, 2013, 2014) from the Academy of Management.

Jannis Kallinikos

Jannis Kallinikos is professor and head of the Information Systems and Innovation Group in the department of management at the London School of Economics and Political Science. His research focuses on the impact of information and communication technologies on organizations and economic institutions. He has published widely in Management, Information Systems and Sociology journals and written several

monographs including *The Consequences of Information: Institutional Implications of Technological Change*, Edward Elgar, 2007, *Governing Through Technology: Information Artefacts and Social Practice*, Palgrave, 2011. He has together with Paul Leonardi and Bonnie Nardi co-edited *Materiality and Organizing: Social Interaction in a Technological World*, Oxford University Press, 2012.

Eric Monteiro

Eric Monteiro is professor of Information systems at the Norwegian U of Science and Technology (NTNU) and an adjunct professor at the U of Oslo. He has a long-standing interest in socially informed, process-oriented accounts of development and use of ICT, in short, processes of digitalization. Empirically, his work has predominantly been within the healthcare sector and the energy/ oil industry. His work is inspired by science studies in general and discussions about 'infrastructure' in particular. He has been part of the III community for quite some time.

Platformization

Carsten Sørensen

Dr Carsten Sørensen is Reader (Associate Professor) in Digital Innovation within Department of Management at The London School of Economics and Political Science (carstensorensen.com). Carsten has since the 1980s researched digital innovation, for example innovating the digital enterprise through mobile technology (enterprisemobilitybook.com), and the innovation dynamics of mobile infrastructures and -platforms (digitalinfrastructures.org). Carsten has published widely within Information Systems since 1989 (scholar.carstensorensen.com), for example in MISQ, ISR, JMIS, ISJ, JIT, Information & Organization, The Information Society, Computer Supported Cooperative Work, and Scandinavian Journal of Information Systems. Carsten also has extensive experience managing national, EU, and industry research grants with a total budget of over £3million. He as for a number of years been engaged in assisting and assessing digital start-ups and has for 25 years been actively engaged in academic consultant and executive education with a broad range of organisations – IMF, Microsoft, Google, PA Consulting, Huawei, Orange, Vodafone, Intel, GEMS, to name just a few.

Ole Hanseth

Ph.D. is Professor in the Department of Informatics, University of Oslo. His research focuses mainly on the interplay between social and technical issues in the development and use of large-scale networking applications and infrastructures.

Anne Helmond

Anne Helmond is Assistant Professor of New Media and Digital Culture at the University of Amsterdam. She is a member of the Digital Methods Initiative and App Studies Initiative research collectives where she focuses her research on the history and infrastructure of social media platforms and apps. Her research interests include digital methods, software studies, platform studies, app studies, infrastructure studies and web history. Anne's work has been published in highly-ranked peer-reviewed journals such as *New Media & Society*, *Theory, Culture and Society*, *Media, Culture & Society*, *Social Media + Society*, *First Monday*, and *Computational Culture*. She currently holds a Veni grant from the Netherlands Organisation for Scientific Research (NWO) for the project 'App ecosystems: A critical history of apps' (2017–2020).

Pinar Ozcan

Pinar Ozcan is Professor of Strategic Management at Warwick Business School. She specializes in strategy, entrepreneurship, and the emergence of new markets. Her current research includes the open banking project, where she examines the industry disruption in banking through regulation and entry of fintechs, and the development of the sharing economy.

Pinar completed her Ph.D. at the Stanford Technology Ventures Program (STVP) at the Stanford University Management Science and Engineering Department, and also holds a Master of Science and dual Bachelors degrees from Stanford.

At Stanford, Pinar directed the AEA Stanford Executive Institute, a summer executive program for the high-tech industry for three consecutive years. She also organized the Stanford Entrepreneurship Thought Leaders Seminars, and helped create the Stanford Entrepreneurship Corner for entrepreneurship educators worldwide. Since completing her PhD, Pinar has received the Excellence in Research Award at IESE, the EFMD Best Teaching Case Award, the IDEA Entrepreneurship Thought Leader Award, and Best Paper Nominations and Awards at *Academy of Management Journal* and *Strategic Management Society*. Pinar is also the 2015 recipient of the British Academy Newton Grant for the study of open innovation, the 2016 SWIFT award for the study of the UK Banking industry's transition into open application programming interfaces (API's), and the 2016 Best Conference Paper Award at *Strategic Management Society*.

In 2017, Pinar had the honor to be selected to the Top 40 Business School Professors under 40 by *Poets and Quants*. In 2018, Pinar received the *Strategic Management Society Research in Organizations Award* for her work on the disruption in the banking sector in partnership with *Swift Institute*. She was recently selected to the global *Thinkers 50* list

for emerging thinkers with the potential to make lasting contributions to management theory and practice. Finally, in 2019, she was chosen as a British Academy Mid-Career Fellow for her work on the disruption of banking in Europe and the UK. Pinar is a founding partner of Blanchard International Turkey. Her work experience also includes management consulting at Siemens Corporation in Munich, Germany, and strategy consulting with technology ventures and venture capital firms in the Silicon Valley. Pinar is from Istanbul, Turkey. She speaks English, German, Spanish, Turkish and Dutch.

Summing up and Future directions

Elena Parmiggiani

Elena Parmiggiani is an associate professor in CSCW and Information Systems at NTNU in Trondheim, Norway. She is interested in studying the sociotechnical challenges of implementing and maintaining digital platforms and information infrastructures, and in the methodological stakes of studying distributed and long-term arrangements. Her work is based on an interdisciplinary lens influenced by science and technology studies. Empirically, she focuses primarily on environmental monitoring and the energy industry. She is a regular participant in the III community.

Jochem Hummel

Jochem Hummel is Assistant Professor at the Information Systems Management Group at Warwick Business School. Jochem's research focuses on interorganizational collaboration in digital innovation settings. He is considered an expert in longitudinal qualitative data collection and process analysis. Jochem is known in the IS and OT research communities for his work on the development of the Helix Nebula Science Cloud, where he studied how a collaboration of Europe's largest science and business organizations – including Atos, CERN, EMBL, ESA, and T-Systems – developed the technical and social components of a European Commercial Science Cloud. Other research interests of Jochem involve generativity in the digital era and the development of artificial intelligence systems.

Jan Ljungberg

Jan Ljungberg is a Professor in Informatics at the University of Gothenburg. He has a long-standing research interest in open source and open innovation. His current research focus is on digital platforms, and especially how platformization challenges societal institutions and working life.

Silvia Masiero

Silvia Masiero is a Lecturer (Assistant Professor) in International Development at the School of Business and Economics, Loughborough University. Her research concerns the role of ICTs in socio-economic development, with a focus on the participation of ICT artefacts in the politics of anti-poverty programmes and emergency management. She has conducted extensive work on the computerisation of India's main food security programme, the Public Distribution System (PDS), and on the adoption of ICTs in core aspects of the Indian public sphere including elections, rural employment guarantees, and programmes of social protection. She is a fellow of the Higher Education Academy (HEA), a member of the Association for Information Systems (AIS), and a member of the UNESCO Chair in ICT4D.

