

EIVIND KRISTOFFERSEN



I'm a passionate PhD candidate, research scientist and international ISO expert with expert knowledge of how the digital transformation improves firms sustainable, circular and competitive performance. I'm soon finished with my PhD in information systems and circular economy at NTNU and work part-time as a Research Scientist at SINTEF.

I research how companies can foster a data-driven culture and leverage it towards increased sustainability and competitiveness. With sustainability at heart and the mind of an engineer, I'm particularly committed to conveying the enormous synergistic opportunities in pairing technological and sustainable development.

I thrive in multidisciplinary settings where business needs meet state-of-the-art technical solutions and research. I'm proactive and independent with a high sense of responsibility. Through good writing and communication skills I'm a sought-after public speaker and advisor. I've published my work in several top academic journals and held multiple keynotes at national and international business forums.

Personal website: <http://www.eivindkristoffersen.com>

SKILLS

- IT Strategy and Digital Transformation
- Circular Economy and Sustainability
- Thought Leadership
- Research-Industry Communication and Networking
- Business analytics (realizing the potential of IoT, Big Data and AI)
- Business Model Innovation
- DevOps
- Public Speaking

EXPERIENCE

Oct 2017 – Present

PhD Candidate, NTNU, Department of Computer Science group of Information Systems and Software Engineering

I research how the digital circular economy can enhance companies' sustainability impact and overall competitive performance. The thesis *'Towards a Smart Circular Economy: How digital technologies can support the adoption of circular economy'* details novel theory of how companies can align their digital transformation with circular economy principles to increase the efficiency, enhance the effectiveness, and facilitate the implementation of sustainable strategies for increased competitive performance. The work is based on extensive qualitative and quantitative research, framed within an action research framework of the CIRCit research project (www.circitnord.com).

February 2019 – Present

Research Scientist, SINTEF

Employed in the Technology Management department at Sintef Digital and previous project lead for the departments strategic circular economy initiative. Part of a cross-departmental group for Sintef's corporate strategy on circular economy and ECERA's (the European Circular Economy Research Alliance) expert group

for digital circular economy. At Sintef I've contributed to several research projects and applications (NFR and EU), specifically within digitalization and circular economy.

April 2019 – Present

International ISO Expert, Standard Norway

International expert on behalf of Standard Norway in the development of the new ISO/TC 323 standard on Circular Economy.

Oct 2017 – Oct 2020

Work Package Leader, CIRCit research project

Part of the CIRCit project lead. Work package leader and responsible for the delivery of "WP04 – Smart Circular Economy".

Aug 2016 – February 2019

Solutions Architect and Community Leader, Sopra Steria

Community leader for DevOps (a software development methodology enabling 'lean digitalization'). Teacher in Sopra Steria Server Course. Public speaker and university guest lecturer. 1-year information security project for the Norwegian Armed Forces (details are classified).

Jun 2014 – Aug 2014 & Jun 2015 – Aug 2015

Infrastructure Engineer, Sopra Steria

Summer intern, consulting for the Norwegian Armed Forces (details are classified) and Statkraft – a leading company in hydropower and renewable energy. I programmed an automated IT-solution to determine if Statkraft's computers complied with the latest updates and security patches.

Jun 2013 – Aug 2013

Mechanical Engineer, Kongsberg Automotive

Summer intern, Kongsberg Automotive provides world-class products to the global vehicle industry for enhanced driving experience, safety, and sustainability. I conducted testing and research for the Research and Development department.

Jun 2012 – Dec 2012

Satellite Engineer, NUTS – NTNU Test Satellite

Design, development and structural analysis of an all-composite primary structure cube satellite. Part of the Norwegian Centre for Space-related Education.

Jun 2011 – Aug 2012

Assistant, Gjøvik Municipality

Worked as an assistant with demented elderly.

EDUCATION

2017 - Present

Doctor of Philosophy - PhD, Norwegian University of Science and Technology (NTNU)

PhD Candidate at the Department of Computer Science. See details above.

2011 - 2016

Master of Science (M.Sc.), Norwegian University of Science and Technology (NTNU)

Engineering and ICT – a joint degree between mechanical engineering and computer science. Specialization: Product Development and Materials. Grade: A. The Master's thesis studied how to automate and optimize tasks in the mechanism design process by automatic modelling, pre-processing and analysis. Concepts from Knowledge-Based Engineering was used; which includes mechanical engineering, object-oriented programming and artificial intelligence.

2014 - 2015

Graduate student, University of California, Santa Barbara (UCSB)
Exchange program, Computer Science and Mechanical Engineering

PUBLIC SPEAKING, LECTURES & ACADEMIC PUBLICATIONS

2021 - Academic publication

The effects of business analytics capability on circular economy implementation, resource orchestration capability and firm performance Manuscript complete

2021 - Academic publication

Towards a Business Analytics Capability for Circular Economy In review at journal

2021 - Academic publication

Big Data and Firm Marketing Performance: Findings from Knowledge-Based View In review at journal

26.10.2020 – Keynote

The Smart Circular Economy – a common framework across digital and circular disciplines models The Global Sustainable Technology & Innovation Community

2020 – White paper

Digital circular economy as a cornerstone of a sustainable European industry transformation In the Global Sustainable Technology & Innovation Community conference

2020 - Academic publication

Using Deep Transfer Learning to Predict Failures with Insufficient Data In review at journal

2020 - Academic publication

A taxonomy and survey of deep learning driven approaches for predictive maintenance In review at journal

2020 - Academic publication

The Smart Circular Economy: A Digital-Enabled Circular Strategies Framework for Manufacturing Companies In Journal of Business Research

2020 - Book

Smart Circular Economy: CIRCit Workbook 4. ISBN 9788774756064.

2019 - Academic publication

Developing a circular strategies framework for manufacturing companies to support circular economy-oriented innovation In Journal of Cleaner Production

2019 - Academic publication

Exploring the Relationship Between Data Science and Circular Economy: an Enhanced CRISP-DM Process Model 18th IFIP Conference on e-Business, e-Services and e-Society

26.08.2019 - Popular business news article

Nå må laget samles, spiller dere med samme ball Ulstein, Elvestuen og Astrup? Bistandsaktuelt

22.07.2019 - Popular business news article

Technology can save the world from climate catastrophe Vårt Land

04.04.2019 – Keynote

Sharing of Data for new sustainable and circular business models Digitaliseringskonferansen

04.04.2019 – Presenter and moderator

Digitalizing the Circular Economy High North Dialogue

26.11.2018 - Presenter

Smart Circular Economy – How to use IoT and AI for increased sustainability and competitiveness Difi

31.05.2018 – Course lecture

Circular Economy and sustainability Sopra Steria Service Design Academy

13.09.2018 - Presenter

Digitalization and the Circular Economy RICE, Circular Economy Workshop

02.06.2018 - Popular business news article

Circular Economy creates new possibilities Dagens Næringsliv

31.05.2018 - Presenter

How can Internet of Things and Artificial Intelligence enable the Circular Economy? SINTEF, Circular Economy Conference

05.01.2018, 02.05.2018 - Guest lecture

What is DevOps? NTNU Trondheim, NTNU Gjøvik

03.03.2018 - Presenter

Circular Economy: How IoT and blockchain can save the world Sopra Steria Rubiks

09.12.2017 - Presenter

CIRCit: how can research help the Circular Economy transition Avfall Norge

06.2016 – Thesis

Automating tasks in the design loop for mechanism design Master Thesis

TECHNICAL CERTIFICATIONS

- MCSA: Office 365
- 70-410: Installing and Configuring Windows Server 2012
- 70-347: Enabling Office 365 Services
- 70-346: Managing Office 365 Identities and Requirements