Application:
Doctoral Student Workshop on
Economics of Artificial Intelligence

Sebastian Bouschery

Institute for Technology and Innovation Management
RWTH Aachen University

bouschery@time.rwth-aachen.de

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Research Associate & PhD Candidate

Aachen, Germany +4915730734910 bouschery@time.rwth-aachen.de

PhD in Technology and Innovation Management

RWTH Aachen University (2020 - present)

Topic: **Creative Human-AI Collaboration in the Front-End of Innovation**

M. Sc. in Business Administration & Mechanical Engineering

RWTH Aachen University (2018 - 2020)

Graduated with honors

Thesis: **Artificial intelligence in health care: An empirical study on the impact of trust and privacy on the acceptance of AI doctors** Grade: 1.0 (A+)

Specializations:

- Innovation, Entrepreneurship, and Marketing
- Production Technology

Member of the **Innovation Honors Class** (top 10% of students)

B. Sc. in Business Administration & Mechanical Engineering

RWTH Aachen University (2013 - 2018)

Thesis: **Prediction of the die roll height in fine blanking using machine learning algorithms** Grade: 1.0 (A+)

Research Associate

Institute for Technology and Innovation Management
RWTH Aachen University (2020 - present)

Head of Operations

Aisler B.V. (Netherlands) (2017 - 2019)

Chairman

AC.E Aachener Entrepreneurship Team e.V. (2015 - 2017)

Bouschery, S. (2021). **Artificial Intelligence in Health Care: Trust, Privacy, and the Acceptance of AI Doctors**. Accepted at 81st Annual Meeting of the *Academy of Management, July 29 – August 04*

Ökzüs, N.; Bouschery, S.; Schlappa, M.; Unterberg, M.; Sporkmann, J. (2021). **Towards an Artificial Intelligence based Approach for Manufacturing Resilience**. Accepted at *22. VDI-Kongress AUTOMATION 2021*, June 29-30, Germany.

My Interest in AI

In my dissertation titled “Creative Human-AI Collaboration in the Front-End of Innovation”, I investigate how artificial intelligence and humans can collaborate to improve essential processes in the front-end of innovation, such as idea generation and idea selection, and what fosters or hinders the acceptance of such hybrid intelligence systems in this context. Recent advancements in artificial intelligence and its application to creative tasks signifies a fundamental change in how companies approach innovation and what role humans play in this context. These developments bring about several great opportunities but also challenges and call for the re-evaluation of existing theories and the introduction of new theories to inform further research and development in the field of artificial intelligence in innovation.

Especially the increasing creative capabilities of artificial intelligence intrigue me because creativity has long been considered to be an inherently human trait that could not readily be performed by machines. After many of the recent advancements have taken place in the context of prediction tasks, the increasing generative and creative capabilities of artificial intelligence constitute a highly interesting area of research. Especially developments in transformer-based language models are of great interest to me. Recently I got access to OpenAI’s GPT-3 and my current work focuses on how such an artificial intelligence can foster human creativity and how humans and artificial intelligence can successfully collaborate to achieve superior performance. While the technological advancements seen in recent years are highly impressive, I strongly believe that more research is needed that goes beyond what is technically possible and considers a broader set of factors as well. This is why I am highly interested in partaking in the doctoral student workshop on the economics of artificial intelligence and discussing relevant issues with leading experts and other highly motivated students.