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## Publikationer

**A Case Study of Planning and Analyzing the Implementation of an AGV System Using Discrete Event Simulation**  
Raza, M., Bilberg, A. & Ilev, D. D., 9. apr. 2024, I: SAE Technical Paper Series.

### Agile digital machine development

Hansen, J. P. D. O., Ribeiro da Silva, E. & Bilberg, A., feb. 2024, I: Computers in Industry. 155, 15 s., 104061.

### Carbon Policies in Network Distribution: A Simulation Approach for Sustainable Supply Chains

Pereira, M. M., Ribeiro da Silva, E. & Bilberg, A., 2023, *2022 Winter Simulation Conference (WSC)*. IEEE, s. 1830-1840 (Proceedings - Winter Simulation Conference).

### Digital Twins in Machine Development and Self-adjusting Operations

de Oliveira Hansen, J. P., Ribeiro da Silva, E., Bilberg, A. & Bro, C., 2023, *Production Processes and Product Evolution in the Age of Disruption: Proceedings of the 9th Changeable, Agile, Reconfigurable and Virtual Production Conference CARV2023 and the 11th World Mass Customization and Personalization Conference MCPC2023*. Galizia, F. G. & Bortolini, M. (red.). Springer Science+Business Media, s. 717-724 (Lecture Notes in Mechanical Engineering).

### Role of Computer Simulation in the Collaborative Robot Implementation Journey of SMEs

Raza, M. & Bilberg, A., 2023, *The Future of Smart Production for SMEs: A Methodological and Practical Approach Towards Digitalization in SMEs*. Madsen, O., Berger, U., Møller, C., Heidemann Lassen, A., Vejrum Waehrens, B. & Schou, C. (red.). Springer, s. 193-202

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### Value Chain Comparison of Additively and Conventionally Manufactured Multi-Cavity Tool Steel Inserts: An Injection Molding Industrial Case Study for High-Volume Production

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### Conceptual foundations and extension of digital twin-based virtual factory to virtual enterprise

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### Agile Machine Development from Virtual to Real

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### Demonstrating and Evaluating the Digital Twin Based Virtual Factory for Virtual Prototyping

Yildiz, E., Møller, C. & Bilberg, A., 2022, *Towards Sustainable Customization: Bridging Smart Products and Manufacturing Systems Proceedings of the 8th Changeable, Agile, Reconfigurable and Virtual Production Conference (CARV2021) and*

*the 10th World Mass Customization & Personalization Conference (MCPC2021), Aalborg, Denmark, October/November 2021.* Andersen, A.-L., Andersen, R., Brunoe, T. D., Larsen, M. S. S., Nielsen, K., Napoleone, A. & Kjeldgaard, S. (red.). Springer, s. 297-304 (Lecture Notes in Mechanical Engineering).

**Virtual Modeling as a Safety Assessment Tool for a Collaborative Robot (Cobot) Work Cell Based on ISO/TS 15066:2016**

Raza, M., Malik, A. A. & Bilberg, A., 2022, *Towards Sustainable Customization: Bridging Smart Products and Manufacturing Systems - Proceedings of the 8th Changeable, Agile, Reconfigurable and Virtual Production Conference CARV 2021 and 10th World Mass Customization and Personalization Conference MCPC 2021.* Andersen, A.-L., Andersen, R., Brunoe, T. D., Larsen, M. S. S., Nielsen, K., Napoleone, A. & Kjeldgaard, S. (red.). Springer, s. 233-241 (Lecture Notes in Mechanical Engineering).

**Demonstration and evaluation of a digital twin-based virtual factory**

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**Improving Maintenance of Offshore Wind Farms through Modularization: A Supply Chain Innovation Perspective**

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Mellentin, A. I., Wu, Y., Wang, M., Bilberg, A., Stenager, E., Nielsen, B. & Yu, F., 22. aug. 2014.

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**Globalized Manufacturing – Local Supply Chains on a Global Scale and Changeable Technologies**

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**A smartphone application of alcohol resilience treatment for behavioral self-control training**

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**Bio-inspired smart sensors for a hexapod robot**

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**Technological Advances of Robot Assisted Polishing**

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**Monitoring of Robot Assisted Polishing through parameters of acoustic emission**

Lazarev, R., Top, S. & Bilberg, A., 17. jun. 2011. 6 s.

**Classification of rigid and deformable objects using a novel tactile sensor**

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**High Resolution Flexible Tactile Sensors**

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**A Study of Fatigue in Multiple Sclerosis Using a New Wireless Medical Sensor Measurements System**

Yu, F. & Bilberg, A., 20. okt. 2010, *Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium*. 1. udg. Vienna, Austria, Bind 21. s. 1167-1168

**Development of flexible array tactile sensors**

Drimus, A., Marian, N. & Bilberg, A., 1. okt. 2010. 2 s.

**Modelling and Experimental Verification of a DEAP based 2-D rotational positioner**

Iskandarani, Y., Bilberg, A. & Sarban, R., 1. jun. 2010. 4 s.

**Development of a Tactile Sensor Array**

Marian, N., Drimus, A. & Bilberg, A., 2010, I: Solid State Phenomena. 166-167, s. 277-284 8 s.

### **Wireless medical sensor measurements of fatigue in patients with multiple sclerosis**

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### **TACTILE SENSING FOR OBJECT IDENTIFICATION**

Drimus, A., Marian, N. & Bilberg, A., 2009, *Proceedings: REM 2009. 10<sup>th</sup> International Workshop on Research and Education in Mechatronics (REM2009) 10-11 September 2009 University of Strathclyde, Glasgow, UK.* Yan, X. T., Corney, J. & Moore, P. (red.). International Workshop on Research and Education in Mechatronics, 7 s.

### **Experience with the behavior-based Robot development**

Marian, N. & Bilberg, A., 2008. 7 s.

### **Sensory grippers: A handyman technology project**

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### **The Development of an Intelligent Electronic Stethoscope**

Yu, F., Bilberg, A. & Voss, F., 2008, *Mechtronic and Embedded Systems and Applications, 2008. MESA 2008. IEEE/ASME International Conference on.* AAAI Press, s. 612-17

### **Flexible Hybrid LEAN Automation**

Bilberg, A., 2006, *Intelligent Manufacturing & Automation: Focus on Mechanics & Robotics.* s. 8-11

### **Flexible and Ergonomic LEAN Production Cells**

Bilberg, A., 2005.

### **LEAN Manufacturing: Part of Business and Manufacturing Strategy**

Bilberg, A., 2005. 8 s.

### **Implementing LEAN in the Supply Chain**

Bilberg, A., 2004. 8 s.

## **Aktiviteter**

### **Akademisk Råd (Ekstern organisation)**

Bilberg, A. (Medlem)

1. jan. 2007 → 4. dec. 2008

### **Alssund Gymnasium, Sønderborg (Ekstern organisation)**

Bilberg, A. (Medlem)

7. feb. 2007 → ...

### **ATV Semapp (Ekstern organisation)**

Bilberg, A. (Medlem)

1. jan. 1997 → ...

### **ATV Semapp (Ekstern organisation)**

Bilberg, A. (Medlem)

1. jan. 2004 → ...

### **Digitalisering: Hvad betyder det for virksomheder og medarbejdere?**

Madsen, E. S. (Underviser) & Bilberg, A. (Underviser)

14. mar. 2018

**FIST Erhvervsforskerudvalg (Ekstern organisation)**

Bilberg, A. (Medlem)

1. feb. 2006 → 31. dec. 2011

**IDA Automation (Ekstern organisation)**

Bilberg, A. (Medlem)

1. apr. 2011

**Kommision, M censorkorpset (Ekstern organisation)**

Bilberg, A. (Medlem)

1. feb. 1993 → ...