

Freediving (SSI Level II) Road Cycling

# **Mohamed Behery**

#### **Doctoral Researcher**

Artificial Intelligence and Applied Robotics

Ph.D. Computer Science

### **Education**

2018

present

	pres	ent Artificia	i intelligence and Applied Robo	DTICS	
Addr Aachen, Ger	71116		Software Systems Egineering 1.7, Thesis grade: 1.1		RWTH Aachen University
@gma in Mohamed B	ehery il.com ehery	Receive Grade:	Computer Science and Engineed a five year scholarship 1.5, Thesis grade: 1.0	ering	German University in Cairo
github.com/b behery.gitl		perience	9		
OpenSou RobotWeb  OS Prefere GNU/Linux **	of 06.20 presonant presona	<ul> <li>Doctoral Researcher         <ul> <li>Researcher at the Knowledge-Based Systems Group (KBSG)</li> <li>Teaching courses, seminars, and labs in addition to thesis supervision</li> <li>Workstream deputy lead in the excellence cluster: the Internet of Production (IoP) since 01.2022.</li> <li>Coordinator of AI expert group in the IoP since 01.2022</li> <li>Member of the Confederation of Laboratories for Artificial Intelligence Research in Europe (CLAIRE)</li> </ul> </li> </ul>			
Windows **					
Arabic ** English ** German **	03.20	Norking	Software Engineer  g as a part of the development to as several other tools and frame	eam using Pytho	, , , ,
Resea Interest Fo		Shared	Thesis Student autonomy teleoperation of a gia using Python, and OpenRa	ssistive robotic	e Center, Weßling, Germany arms for people with
	botics 05.20		t Software Developer on internal tools for network m		lab, Herzogenrath, Germany Perl and CakePHP
Representatio	n and 02.20 oning 07.20	)13 Introduc	ng Assistant ction to computer programming ructures and algorithms		versity in Cairo, Cairo, Egypt
Hobi Scuba E (PADI Advanced	iving 08.20	010 • A • Pr	testbed for Public Key Infrastrum testbed for Public Key Infrastrum tototyping and UI design for testing Java (Swing) and different	ucture (PKI) stbed application	

## **Scholarships and Awards**

IoP Young Researcher Award 2022

September 2022

August 2022

**RWTH Aachen University** 

Received second place for work on the next generation HRC for the IoP

International Summer School on Al and Games

using Java (Swing) and different UI prototyping tools

Received scholarship for attending the summer school in Chania, Greece

#### **Publications**

**Mohamed Behery**, Philipp Brauner, Hans Aoyang Zhou, Merih Seran Uysal, et al. "Actionable AI for the Future of Production". English. In: *Internet of Production Fundamentals, Applications and Proceedings*. In Press. Springer, 2022

**Mohamed Behery** and Gerhard Lakemeyer. "Motion Descriptors for Intention Recognition in Robot Teleoperation Tasks". In: *Workshop on Prediction and Anticipation Reasoning in Human Robot Interaction at the International Conference on Robotics and Automation (ICRA).* Philadelphia, 2022

Ralph Baier, Hannah Dammers, Alexander Mertens, **Mohamed Behery**, et al. "A Framework for the Classification of Human-Robot Interactions within the Internet of Production". en. In: vol. 2. Lecture Notes in Computer Science. Cham: Springer, 2022

**Mohamed Behery**, Minh Trinh, and Gerhard Lakemeyer. "Human Action Nodes for Behavior Trees". In: *Proceedings of the Workshop Robotics for People (R4P): Perspectives on Interaction, Learning and Safety at The Robotics: Science and Systems (RSS) Conference*. 2021, pp. 13–14

Vladimir Samsonov, **Mohamed Behery**, and Gerhard Lakemeyer. "Reinforcement Learning for Short-Term Production Scheduling with Sequence-Dependent Setup Waste". English. In: *ERCIM News* 122 (July 2020), pp. 38–39. URL: https://ercim-news.ercim.eu/

**Mohamed Behery**, Matteo Tschesche, Fridtjof Rudolph, Gerhard Hirt, et al. "Action Discretization for Robot Arm Teleoperation in Open-Die Forging". In: *Proceedings of the SMC 2020 conference*. 2020

Aymen Gannouni, Vladimir Samsonov, **Mohamed Behery**, Tobias Meisen, et al. "Neural Combinatorial Optimization for Production Scheduling with Sequence-Dependent Setup Waste". In: *proceedings of the SMC 2020 conference*. 2020

**Mohamed Behery**. A Knowledge-Based Activity Representation for Shared Autonomy Teleoperation of Robotic Arms. Tech. rep. RWTH Aachen, Aug. 2016. URL: https://elib.dlr.de/105891/