

## Scientific Chair:

Research Consortium E-BRAiN – Evidence-Based Robot-Assistance in Neurorehabilitation (co-ordinator Professor Dr. med. Thomas Platz, Greifswald)  
[www.ebrain-science.de](http://www.ebrain-science.de)

## Information:

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## Registration:

[www.t1p.de/E-Brain2022](http://www.t1p.de/E-Brain2022)



The international Symposium is funded by the State of Mecklenburg-Vorpommern (Germany) supporting the digitization Projekt E-BRAiN – Evidence-Based Robot-Assistance in Neurorehabilitation with funding from the European Social Fund (ESF/14-BM-A55-001/19-A02). The Symposium is further supported by the Alfried Krupp von Bohlen und Halbach-Stiftung, Essen. The Alfried Krupp Wissenschaftskolleg is an academically independent institution sponsored by the Stiftung Alfried Krupp Kolleg.

The international Symposium brings clinicians and scientists together to share their reasoning, research results, and insights.

Lessons learnt from brain science approaches, aspects of therapeutic interaction, the role of motivation, the design of social robots, including gender aspects, user model technology, design of communication, digitally monitoring training behaviour, patient preferences and ethical considerations with regard to future technology, as well as clinical experience with systems that have been developed so far are all addressed.

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# Use of Humanoid Robot Technology for Therapy

International Symposium  
18<sup>th</sup> – 21<sup>st</sup> May 2022

## Wednesday, 18<sup>th</sup> May 2022

4.00 pm – 6.00 pm

Registration

6.00 pm

### Public Lecture

Humanoid robots in rehabilitation therapy –  
chance and challenge

Thomas Platz (Greifswald)

Moderation: Karlhans Endlich (Greifswald)

afterwards: Evening Reception

## Thursday, 19<sup>th</sup> May 2022

9.00 am – 11.00 am

### Therapeutic interaction & Robot therapy

Stephanie Bobe (Greifswald)

Philipp Deutsch (Greifswald)

Carolin Goldmann (Greifswald)

Ann-Sophie Hensler (Konstanz)

Ann Pedersen (Greifswald)

Thomas Platz (Greifswald)

11.00 am – 11.30 am

Coffee Break

11.30 am – 12.30 pm

Widening the lens: Cognitive and brain  
science approaches for research on human-  
robot interactions

Emily S. Cross (Sydney)

12.30 pm – 2.00 pm

Lunch Break

2.00 pm – 3.00 pm

Lessons learned from upper-limb post-stroke  
rehabilitation with a social robot

Shelly Levy-Tzedek (Beer Sheva)

3.00 pm – 4.00 pm

Social Robotics: Designing Machines that  
Interact with People

Arvid Kappas (Bremen)

4.00 pm – 4.30 pm

Coffee Break

4.30 pm – 5.30 pm

### Motivation

Alfons Hamm (Greifswald)

Christoph Szeska (Greifswald)

## Friday, 20<sup>th</sup> May 2022

9.00 am – 10.00 am

### User Model Technology

Peter Forbrig (Rostock)

Alexandru Bunea (Rostock)

10.00 am – 11.00 am

Towards We-intentional HRI Interactions  
using Theory of Mind and Hierarchical Task  
Network

Maitreyee Maitreyee (Umea)

11.00 am – 11.30 am

Coffee Break

11.30 am – 12.30 pm

Building Feminist Social Robots: What, Why  
and How

Katie Winkle (Stockholm)

12.30 pm – 2.00 pm

Lunch Break

2.00 pm – 3.00 pm

Are humanoid robots capable of social  
interactions with humans and can they be  
held morally responsible?

Raul Hakli (Helsinki)

3.00 pm – 4.00 pm

Intuitive and informative Human-Robot  
Communication

Serge Autexier (Bremen)

4.00 pm – 4.30 pm

Coffee Break

4.30 pm – 5.30 pm

Human Behavior Recognition and  
Natural Language Generation for  
Neuro-Rehabilitation

Thomas Kirste (Rostock)

Sebastian Bader (Rostock)

## Saturday, 21<sup>st</sup> May 2022

9.00 am – 10.00 am

Health Preference Research – Development,  
Methods and Contributions to Health Care  
Decision Making

Peter Zweifel (Zürich)

10.00 am – 11.00 am

Patient preferences in neurorehabilitation:  
a consideration of clinical effects and  
technical features of robotic therapy

Christin Juhnke (Neubrandenburg)

Ann-Kathrin Fischer (Neubrandenburg)

Gina-Sophie Labahn (Neubrandenburg)

Axel C. Mühlbacher (Neubrandenburg)

11.00 am – 11.30 am

Coffee Break

11.30 am – 12.30 pm

Efficiency frontier of digital health  
interventions: A probabilistic model of cost-  
effectiveness analysis

Andrew Sadler (Neubrandenburg)

Yvonne Stefanie Jordan (Neubrandenburg)

Axel C. Mühlbacher (Neubrandenburg)