

Biannual meeting SPP 'The Active Self'

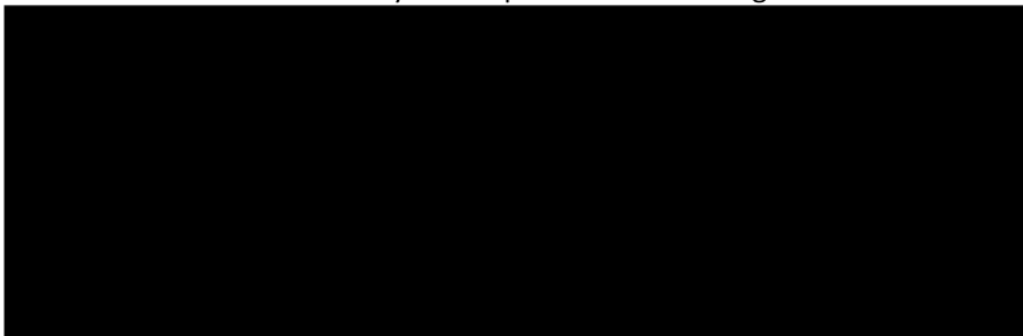
Final meeting phase 1, 17th & 18th January 2022

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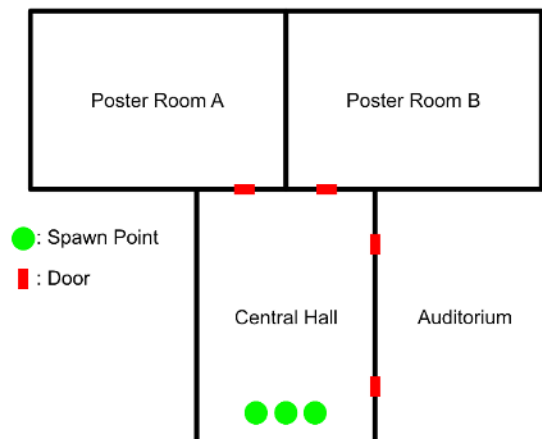
Kickoff meeting phase 2, 19th & 20th January 2022

GATHERTOWN:

This time we are using Gathertown to host the meeting. Please make an account and familiarize yourself prior to the meeting.



Map of the Gathertown venue:



DISCUSSIONS:

Please queue in front of the sign to the right of the stage if you would like to ask a question in the discussion phases.

Monday 17th of January 2022

8:30 **Introduction:** Bernhard Hommel

Block 1

8:50 **1 - Prerequisites for the Development of an Artificial Self, Yasmin Kim Georgie**
9:00 **2 - Developing an Active Self, Martin Butz**
9:10 **3 - The PHANTOMBODY project – summary of main findings, Robin Bektrater-Bodmann**
9:20 **Discussion 1, Talks 1 to 3**

9:30 **10 minute Break**

Block 2

9:40 **4 - PALMS – Plasticity of the minimal self in healthy aging, Amir Jahanian Najafabadi**
9:50 **5 - Mind the Body: an investigation into the role of embodied interactions in the construction of minimal self in infancy, Markus Tünte**
10:00 **6 - Active Voice: Influence of pitch and timbre on voice self-perception, David Magezi**
10:10 **Discussion 2, Talks 4 to 6**

10:20 **10 minute Break**

Block 3

10:30 **7 - Modeling the problem-solving self with integrated hierarchical reinforcement learning, Manfred Eppe and Frank Röder**
10:40 **8 - Life-span development of high-order body representations for the control of body balance (DELIGHT), Katrin Schuller**
10:50 **9 - On the malleability of the self-face representation: Findings from the EMOTIC project, Andrea Hildebrandt**
11:00 **Discussion 3, Talks 7 to 9**

11:10 **30 minute Break**

11:40 **Poster Session 1 (Talks 1-9)**

13:30 **End**

Tuesday 18th of January 2022

Block 4

- 8:30 **10 - The Sensorimotor Architecture of the Self: Information Integration in Embodied Systems, Carlotta Langer**
- 8:40 **11 - An Embodied Process Account of How Intentional States Give Rise to the Active Self, Sophie Aerdker and Jan Teklüve**
- 8:50 **12- Understanding and Building a Minimal Self, Valentin Forch**
- 9:00 **Discussion 5, Talks 10 to 12**

9:10 **10 minute Break**

Block 5

- 9:20 **13 - Preliminary results on a social basis of the active self in infancy, Nina-Alisa Hinz**
- 9:30 **14 - Self as a Feature Bundle: Unraveling the Mechanism underlying Self-Representation, Stephan Verschoor**
- 9:40 **15 - Self-Other Discrimination in Human-Robot Interaction, Bastian Latsch and Niklas Schäfer**
- 9:50 **Discussion 6, Talks 13 to 15**

10:00 **10 minute Break**

Block 6

- 10:10 **16 - Computational cognitive modeling of the Active Self 1, Sebastian Wiese**
- 10:20 **17 - Climbing to Yourself: A Developmental Embodied Cognition Perspective on the Relation between the Minimal Self and Sensorimotor and Cognitive Skills, Markus Raab**
- 10:30 **18 - Functional Aspects of the Minimal Self – the case of Schizophrenia, Tim Möller**
- 10:40 **Discussion 7, Talks 16 to 18**

10:50 **30 minute Break**

11:20 **Poster Session 2 (Talks 10-18)**

13:00 **Final remarks:** Bernhard Hommel

13:30 **End**

Wednesday 19th of January 2022

- 9:00 **Introduction:** Bernhard Hommel
- 9:20 **1 - Information Integration in Predictive Processes: A Mechanistic Grounding of the Self, Nihat Ay**
- 9:30 **Discussion 1**
- 9:40 **2 - The impact of child-caregiver interactions and attachment on the developing minimal self, Markus Paulus**
- 9:50 **Discussion 2**
- 10:00 **20 minute Break**
- 10:20 **3 - Dynamic and adaptive body schema by learning to predict the sensor consequences of actions, Fred Hamker**
- 10:30 **Discussion 3**
- 10:40 **4 - Functional Aspects of the Minimal Self – the case of Schizophrenia, Laura Kaltwasser and Martin Voss**
- 10:50 **Discussion 4**
- 11:00 **20 minute Break**
- 11:20 **5 - Computational cognitive modeling of the Active Self 2, Nele Russwinkel**
- 11:30 **Discussion 5**
- 11:40 **6 - Reconstructing the naïve theory of the self, Bernhard Hommel**
- 11:50 **Discussion 6**
- 12:00 **7 - An Embodied AI Approach to Measures of the Self, Verena Hafner**
- 12:10 **Discussion 7**
- 12:20 **20 minute Break**
- 12:40 **Poster session 1 (talks 1-7)**
- 14:00 **End**

Thursday 20th of January 2022

- 9:00 **8 - DeepSelf: Emergence of Event-Predictive Agency in Robots, Martin Butz and Pablo Lanillos**
- 9:10 **Discussion 8**
- 9:20 **9 - Bayesian Inference as the basis of sense of agency, David Franklin**
- 9:30 **Discussion 9**
- 9:40 **10 - Keep the breath in mind: Respiratory Interoception in the developing brain, Ezgi Kayhan**
- 9:50 **Discussion 10**
- 10:00 **20 minute Break**
- 10:20 **11 - Modeling a Robot's Peripersonal Space and Body Schema for Adaptive Learning and Imitation (MoReSpace), Manfred Eppe and Frank Röder**
- 10:30 **Discussion 11**
- 10:40 **12 - Plasticity of body representation of self and other in collaborative tasks (SOLAR), Youssef Michel**
- 10:50 **Discussion 12**
- 11:00 **20 minute Break**
- 11:20 **13 - The Cognitive Control of Social Resonance, Stephan Verschoor**
- 11:30 **Discussion 13**
- 11:40 **20 minute Break**
- 12:00 **Poster session 2 (talks 8-13)**
- 13:30 **Final remarks**
- 13:50 **End**