





March 23-25<sup>TH</sup>

## 23 MARCH 2022

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MORNING SESSION		
08:30 – 09:00	Welcome and Introduction	
09:00 – 09:45	Plenary Talk: KENJI DOYA	
09:45 - 10:00	Coffee Break	
10:00 – 11:30	Short talks and Panel discussions	
11:30 – 13:00	Lunch and Break-out sessions	
AFTERNOON SESSION		
13:00 – 13:15	Day 1: Morning session summary	
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AFTERNOON SESSION		
13:00 – 13:15	Day 1: Morning session summary	
13:15 – 14:00	Plenary talk: KATHERINE KUCHENBECKER	
14:00 – 15:30	Short talks and Panel discussions	
15:30 – 15:45	Coffee Break	
15:45 – 16:30	Plenary talk: DANIEL WOLPERT	
16:30 – 17:00	Day 1 discussion	
17:00 – 18:30	Break-out sessions	

## 24 MARCH 2021

MORNING SESS	SION
08:45 – 09:00	Welcome and Introduction
09:00 – 09:45	Plenary Talk: KOHEI NAKAJIMA
09:45 - 10:00	Coffee Break
10:00 – 11:30	Short talks and Panel discussions
11:30 – 13:00	Lunch and Break-out sessions

### **AFTERNOON SESSION**

13:00 – 13:15	Day 2: Morning session summary
13:15 – 14:00	Plenary talk: JOANNA BRYSON
14:00 – 15:30	Short talks and Panel discussions
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: ALLISON OKAMURA
16:30 – 17:00	Day 2 discussion
17:00 – 18:30	Break-out sessions

## 25 MARCH 2021

MORNING SESSION		
08:45 - 09:00	Welcome and Introduction	
09:00 - 09:45	Plenary Talk: RYOTA KANAI	
09:45 - 10:00	Coffee Break	
10:00 – 11:30	Short talks and Panel discussions	
11:30 – 13:00	Lunch and Break-out sessions	

## NOTE THE TIMINGS GIVEN IN GMT (Greenwich Mean Time)









23 MARCH 2022

March 23-25<sup>TH</sup>

### **MORNING SESSION**

08:30 - 09:00	Welcome and Introduction
09:00 – 09:45	Plenary Talk: KENJI DOYA
09:45 – 10:00	Coffee Break
10:00 – 11:30	Short talks and Panel discussions
11:20 12:00	Lunch and

Break-out sessions

### **AFTERNOON SESSION**

11:30 – 13:00

13:00 – 13:15	Day 1: Morning session summary
13:15 – 14:00	Plenary talk: KATHERINE KUCHENBECKER
14:00 – 15:30	Short talks and Panel discussions
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk:  DANIEL WOLPERT
16:30 – 17:00	Day 1 discussion
17:00 – 18:30	Break-out sessions



## **KENJI DOYA**

Okinawa Institute of Science and Technology, Japan

EMBODIED AGENTS FOR SURVIVAL, REPRODUCTION, AND PREDICTION



## KATHERINE KUCHENBECKER

Max Plank Institute for Intelligent Systems, Germany

HAPTIC INTELLIGENCE FOR HUMAN-ROBOT INTERACTION



## DANIEL WOLPERT

Columbia University, USA

CONTEXTUAL INFERENCE UNDERLIES THE LEARNING OF SENSORIMOTOR REPERTOIRES



March 23-25<sup>TH</sup>

## 24 MARCH 2021

## **MORNING SESSION**

08:45 – 09:00	Welcome and Introduction
09:00 – 09:45	Plenary Talk: <b>KOHEI NAKAJIMA</b>
09:45 - 10:00	Coffee Break
10:00 – 11:30	Short talks and Panel discussions
11:30 – 13:00	Lunch and Break-out sessions

## **AFTERNOON SESSION**

13:00 – 13:15	Day 2: Morning session summary
13:15 – 14:00	Plenary talk: JOANNA BRYSON
14:00 – 15:30	Short talks and Panel discussions
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: ALLISON OKAMURA
16:30 – 17:00	Day 2 discussion
17:00 – 18:30	Break-out sessions



## **KOHEI NAKAJIMA**

University of Tokyo, Japan

PHYSICAL RESERVOIR COMPUTING AND ITS RELEVANCE TO EMBODIED INTELLIGENCE



## **JOANNA BRYSON**

Hertie School of Governance, Germany

THE SOCIAL COMMUNICATION OF MEANING TO AI



## **ALLISON OKAMURA**

Stanford university, USA

UNDERSTANDING AND DESIGNING FOR HUMAN HAPTIC INTELLIGENCE



March 23-25<sup>TH</sup>

## 25 MARCH 2021

## **MORNING SESSION**

08:45 – 09:00	Welcome and Introduction
09:00 – 09:45	Plenary Talk: RYOTA KANAI
09:45 – 10:00	Coffee Break
10:00 – 11:30	Short talks and Panel discussions
11:30 – 13:00	Lunch and Break- out sessions



## **RYOTA KANAI**

Araya Inc, Japan

**TOWARDS A CONSCIOUS MACHINE** 



# EMBODIED INTELLIGENCE CONFERENCE '22 SHORT TALKS: DAY 1

## 23 MARCH 2022

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08:30 - 09:00	Welcome and Introduction
09:00 – 09:45	Plenary Talk: KENJI DOYA
09:45 - 10:00	Coffee Break
10:00 – 11:30	Short talks and Panel discussions
11:30 – 13:00	Lunch and Break-out sessions

10.50 – 11.30	PANEL DISCUSSION
10.40 – 10.50	Thomas Speck
10.30 – 10.40	Cosimo Della Santina
10.20 – 10.30	Auke ljspeert
10.10 – 10.20	Koh Hosoda
10.00 – 10.10	Tetsuya Ogata

## **AFTERNOON SESSION**

13:00 – 13:15	Day 1: Morning session summary
13:15 – 14:00	Plenary talk: KATHERINE KUCHENBECKER
14:00 – 15:30	Short talks and Panel discussions
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: DANIEL WOLPERT
16:30 – 17:00	Day 1 discussion
17:00 – 18:00	Break-out sessions

14.00 – 15.30	Josh Bongard
14.10 – 14.20	Kirstin Petersen
14.20 – 14.30	Mike Tolley
14.30 – 14.40	Amanda Prorok
14.40 – 14.50	Rodolphe Sepulchre
14.50 – 15.30	PANEL DISCUSSION



# EMBODIED INTELLIGENCE CONFERENCE '22 SHORT TALKS: DAY 2

## 24 MARCH 2021

MO	RN	ING	SESS	ION
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08:45 – 09:00	Welcome and Introduction
09:00 – 09:45	Plenary Talk: KOHEI NAKAJIMA
09:45 – 10:00	Coffee Break
10:00 – 11:30	Short talks and Panel discussions
11:30 – 13:00	Lunch and Break-out sessions

11.00 – 11.30	PANEL DISCUSSION
10.50 - 11.30	Darwin Lau
10.40 – 10.50	Peter Xu
10.30 – 10.40	Kanako Harada
10.20 – 10.30	Kenji Suzuk
10.10 – 10.20	Etienne Burdet
10.00 – 10.10	Dana Damian

## **AFTERNOON SESSION**

13:00 – 13:15	Day 2: Morning session summary
13:15 – 14:00	Plenary talk: JOANNA BRYSON
14:00 – 15:30	Short talks and Panel discussions
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: ALLISON OKAMURA
16:30 – 17:00	Day 2 discussion
17:00 – 18:30	Break-out sessions

14.00 – 15.30	Thrish Nanayakkara
14.10 – 14.20	Cynthia Sung
14.20 – 14.30	Seppe Terryn
14.30 – 14.40	Marco Hutter
14.40 – 14.50	Rob Wood
14.50 – 15.30	PANEL DISCUSSION



# EMBODIED INTELLIGENCE CONFERENCE '22 SHORT TALKS: DAY 3

## 26 MARCH 2021

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MONITING SESSION		
08:45 – 09:00	Welcome and Introduction	
09:00 – 09:45	Plenary Talk: RYOTA KANAI	
09:45 – 10:00	Coffee Break	
10:00 – 11:30	Short talks and Panel discussions	
11:30 – 13:00	Lunch and Break-out sessions	

10.00 – 10.10	Antonio Bicchi
10.10 – 10.20	Tamar Makin
10.20 – 10.30	Maki Sato
10.30 – 10.40	Kenjiro Tadakuma
10.40 – 10.50	Perla Maiolino
10.50 – 11.30	PANEL DISCUSSION



# EMBODIED INTELLIGENCE CONFERENCE '22 BREAK-OUT SESSIONS: DAY 1

## **BREAK-OUT SESSION:** 11.30 – 13.00

Room 1: Bio-inspired & soft robotics	Room 2: Philosophy, Learning and Perception	
Chair: Thilina Lalitharatne	Chair: Thomas George Thuruthel	
Federico Pigozzi	Palak Sharma	
Beatriz Miranda-Silva	Monica Perusquia Hernandez	
Nana Obayashi	Gabriel Vogel	
Saverio Iacoponi	Sujay Kadam	
Costanza Armanini	Dimitri Ognibene	
Cecilia Laschi	Simon Birell	
Kenjiro Tadakuma		
PANEL DISCUSSIONS		

## **BREAK-OUT SESSION:** 17.00 – 18.30

Room 1: Bio-inspired Robotics	Room 2: Control & Learning	
Chair: Thilina Lalitharatne	Chair: Hadi Sadati	
Lucas C. van Laake	Amiram Moshaiov	
Alexandra Nilles	Erin Nolan	
Thilina Lalitharatne	Andrew Sabelhaus	
Zhenhua Yu	Fernando Diaz Ledezma	
Alborz Aghamaleki Sarvestani	Francesco Stella	
Mingfeng Wang	Maria Elena Giannaccini	
PANEL DISCUSSIONS		





# EMBODIED INTELLIGENCE CONFERENCE '22 BREAK-OUT SESSIONS: DAY 2

## **BREAK-OUT SESSION:** 11.30 – 13.00

### ROOM 1: ROOM 2: ROOM 3: **Development & Learning** Manipulation, Sensing Perception & and Actuation Behaviour in **Embodied Systems** Chair: Chair: Chair: John Rieffel **Leone Costi Thomas George** Thuruthel **Bradly Alicea** Chie Takahashi Kai Junge Jeffrey White Oliver Brock Eiko Yoneki Thomas George W B Langdon Grazia Ragone Thuruthel Wei Li Kieran Gilday Roxana Girju Sidney Pontes-Filho Elijah Almanzor Ryman Hashem Muhammad Wildan Tetsushi Nonaka Gifari PANEL DISCUSSIONS

## **BREAK-OUT SESSION: 17.00 – 18.30**

ROOM 1: Philosophy, Cognition & Developmental Robotics	ROOM 2: Morphological Computation	ROOM 3: Technologies & Applications
Chair: Matej Hoffmann	Chair: Leone Costi	Chair: Grzegorz Sochacki
Jesse Parent	Zhe Chen	Leo Chen
Matej Hoffmann	Fan Ye	Julien Serres
Adam Safron	David Hardman	Paul Fink
Xiaofeng Xiong	Nicole Carey	Grzegorz Sochacki
Dominique Baron-Bonarjee	Jiefeng Sun	Animesh Garg
Pablo Lanillos	Hang Gao	Stefan Ilic
Wiktor Rorot	Leone Costi	
Urte Laukaityte	John Rieffel	
Giuseppe Carbone		
PANEL DISCUSSIONS		