



EI 2025

EMBODIED INTELLIGENCE
ONLINE CONFERENCE

EMBODIED INTELLIGENCE CONFERENCE

2 - 4 APRIL 2025

EMBODIED INTELLIGENCE CONFERENCE'25

PROGRAMME

02 APRIL 2025

MORNING SESSION

09:00 – 09:30	Welcome and Introduction FUMIYA IIDA
09:30 – 10:15	Plenary Talk: NICOLA CLAYTON
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks/Panel discussion LEAD: CECILIA LASCHI KENTO KAWAHARAZUKA HONGYING ZHANG JONAS JØRGENSEN
12:00 – 13:00	Lunch Break-out sessions and Masterclass I with Cecilia Laschi

AFTERNOON SESSION

13:00 – 13:15	Day 1: Morning Session summary JOSIE HUGHES
13:15 – 14:00	Plenary Talk: JOHN HUTCHINSON
14:00 – 15:30	Short talks/Panel discussion LEAD: JOSH BONGARD ERIC DILLER TANIA MORIMOTO THRISHANTHA NANAYAKKARA KASPAR ALTHOEFER
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: EMILY STANDEN
16:30 – 17:00	Day 1 discussion ALL SPEAKERS PANEL
17:00 – 18:30	Afternoon Break-out sessions and Masterclass II with Josh Bongard

03 APRIL 2025

MORNING SESSION

09:15 – 09:30	Summary Day 1 CHAPA SIRITHUNGE
09:30 – 10:15	Plenary Talk: HIROKI UEDA
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks/Panel discussion LEAD: KOHEI NAKAJIMA JENNY READ HAOLIANG LI MOHSEN KABOLI
12:00 – 13:00	Lunch Break-out sessions and Masterclass III with Kohei Nakajima

AFTERNOON SESSION

13:00 – 13:15	Day 2: Morning session summary PERLA MAIOLINO
13:15 – 14:00	Plenary Talk: MICHAEL LEVIN
14:00 – 15:30	Short talks/Panel discussion LEAD: MATEJ HOFFMAN HIROKI SAYAMA OLIVER BROCK STEPHANIE GIL
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary Talk: KAREN ADOLPH
16:30 – 17:00	Day 2 discussion ALL SPEAKERS PANEL
17:00 – 18:30	Afternoon Break-out sessions and Masterclass IV with Josie Hughes

04 APRIL 2025

MORNING SESSION

09:15 – 09:30	Summary Day 1 & 2 THILINA LALITHARATHE
09:30 – 10:15	Plenary Talk: ROBERT RIENER
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks/Panel discussion LEAD: PORAMATE MANOONPONG AN QI ILANA NISKY YUKI NAKAGAWA
12:00 – 12:15	All Conference Summary FUMIYA IIDA
12:15 – 13:45	Lunch Break-out sessions and Masterclass V with Fumiya Iida

NOTE THE TIMINGS GIVEN IN BST
(British Summer Time)



EI WORKSHOP in Lausanne, Switzerland



JOIN US IN PERSON

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02 APRIL 2025

MORNING SESSION

SESSION CHAIR: FUMIYA IIDA

- 09:00 – 09:30 Welcome and Introduction
FUMIYA IIDA
- 09:30 – 10:15** **Plenary Talk:**
NICOLA CLAYTON
- 10:15 – 10:30 Coffee Break
- 10:30 – 12:00 Short talks and Panel discussions
Chair: Cecilia Laschi
- 12:00 – 13:00 Lunch Break-out sessions and
Masterclass I with Cecilia Laschi

AFTERNOON SESSION

SESSION CHAIR: JOSIE HUGHES

- 13:00 – 13:15 Morning Session summary
JOSIE HUGHES
- 13:15 – 14:00** **Plenary talk:**
JOHN HUTCHINSON
- 14:00 – 15:30 Short talks and Panel discussions
Chair: Josh Bongard
- 15:30 – 15:45 Coffee Break
- 15:45 – 16:30** **Plenary talk:**
EMILY STANDEN
- 16:30 – 17:00 Day 1 discussion
ALL DAY SPEAKERS PANEL
- 17:00 – 18:30 Afternoon Break-out sessions and
Masterclass II with Josie Hughes

EMBODIED INTELLIGENCE CONFERENCE'25



NICOLA CLAYTON

University of Cambridge, UK

MAGIC MIND



JOHN HUTCHINSON

RVC University of London, UK

RECONSTRUCTING THE EVOLUTIONARY
BIOMECHANICS OF TERRESTRIAL LOCOMOTION
IN ARCHOSAURIA



EMILY STANDEN

University of Ottawa, Canada

DIFFERENT ANIMALS, MULTIPLE ENVIRONMENTS
AND AN EMERGING STORY ABOUT EMBODIED
INTELLIGENCE

02 APRIL 2025

MORNING SESSION

SESSION CHAIR: FUMIYA IIDA

09:00 – 09:30	Welcome and Introduction FUMIYA IIDA
09:30 – 10:15	Plenary Talk: NICOLA CLAYTON
10:15 – 10:30	Coffee Break
10:30 – 12:00	SHORT TALKS AND PANEL DISCUSSIONS
12:00 – 13:00	Lunch Break-out sessions and Masterclass I with Cecilia Laschi

AFTERNOON SESSION

SESSION CHAIR: JOSIE HUGHES

13:00 – 13:15	Day 1: Morning session summary JOSIE HUGHES
13:15 – 14:00	Plenary talk: JOHN HUTCHINSON
14:00 – 15:30	SHORT TALKS AND PANEL DISCUSSIONS
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: EMILY STANDEN
16:30 – 17:00	Day 1 discussion ALL DAY SPEAKERS PANEL
17:00 – 18:30	Afternoon Break-out sessions and Masterclass II with Josie Hughes

EMBODIED INTELLIGENCE CONFERENCE'25

SHORT TALKS & PANEL DISCUSSIONS

MORNING PANEL & TALKS/SESSION CHAIR: CECILIA LASCHI

LEAD TALK



10:30 – 10:40
Cecilia Laschi



10:40 -10:50
Kento Kawaharazuka



10:50 – 11:00
Hongying Zhang



11:00 – 11:10
Jonas Jørgensen

PANEL DISCUSSION: 11.20 – 12.00

AFTERNOON PANEL & TALKS/SESSION CHAIR: JOSH BONGARD

LEAD TALK



14:00 – 14:10
Josh Bongard



14:10 -14:20
Eric Diller



14:30 – 14:40
Tania Morimoto



14:40 – 14:50
Thrishantha
Nanayakkara



14:50 – 15:00
Kaspar Althoefer

PANEL DISCUSSION: 15.00 – 15.30

EMBODIED INTELLIGENCE CONFERENCE'25: BREAK-OUT SESSIONS

02 APRIL 2025/MORNING SESSION: 12:00 – 13:00

MASTERCLASS I (BS 1-1-1)	SESSION 1 (BS 1-1-2)	SESSION 2 (BS 1-1-3)	SESSION 3 (BS 1-1-4)
Soft Robotics and Biorobots	Adaptive Behaviours	Soft Robotics	Social Robotics
CECILIA LASCHI	Chair: Perla Maiolino Co-Chair: Jerry Xu	Chair: Nana Obayashi Co-Chair: Arsen Abdulali	Chair: Kai-Fung Chu Co-Chair: Fan Ye
David Hardman	Prof Dr Pal Pandian P	Muhammad Razin Roslan	Zuhayr
Maria Pozzi	Patrick Govoni	Saitarun Nadipineni	Matevz Zorec
Ryman Hashem	Yiyuan Zhang	Jieji Ren	Krishnan Chandran
Maximilian Stölzle	Likun Zhang	Menna Alah Mahmoud	Magdalena Yordanova
		Sharun Arumugam	
PANEL DISCUSSIONS			

EMBODIED INTELLIGENCE CONFERENCE'25: BREAK-OUT SESSIONS

02 APRIL 2025/AFTERNOON SESSION: 17:00 - 18:30

MASTERCLASS II (BS 1-2-1)	SESSION 1 (BS 1-2-2)	SESSION 2 (BS 1-2-3)	SESSION 3 (BS 1-2-4)
Evolutionary Computation and AI	Environmental Embodiment	Autonomous Systems	Robot design and development
JOSH BONGARD	Chair: Thilina Lalitharatne Co-Chair: Elijah Almanzor	Chair: Arsen Abdulali Co-Chair: Yi Zhang	Chair: Ryman Hashem Co-Chair: Michael Ishida
Yue Xie	Rana Faryad Ali	Barry Mulvey	Mara-Elsa Montoya
Zhongkai Li	Chenhao Hong	Haasya Godavarthy	Eliana Garcia
Devi Mani	Olga Fellus	Sergio Picella	Gonzalez Andres
	Deniz Kerimoglu	Yihe Lu	Narges Khadem Hosseini
	Bradly Alicea	Musab Inamdar	Nia Touko
	Marta Zheplinska	Umme Kawsar Alam	Samuel Olatunji
	Piotr Skrzypczynski	Wesley Clawson	Parvathi Rajeev
	Anthony Siming Chen	Elisa Donati	
		Shriansh Chaabra	
PANEL DISCUSSIONS			

03 APRIL 2025

MORNING SESSION

SESSION CHAIR: CHAPA SIRITHUNGE

09:15 – 09:30	Summary Day 1 CHAPA SIRITHUNGE
09:30 – 10:15	Plenary Talk: HIROKI UEDA
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks and Panel discussions Chair: Kohei Nakajima
12:00 – 13:00	Lunch Break-out sessions and Masterclass III with Kohei Nakajima

AFTERNOON SESSION

SESSION CHAIR: PERLA MAIOLINO

13:00 – 13:15	Day 2: Morning session summary PERLA MAIOLINO
13:15 – 14:00	Plenary talk: MICHAEL LEVIN
14:00 – 15:30	Short talks and Panel discussions Chair: Matej Hoffman
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: KAREN ADOLPH
16:30 – 17:00	Day 2 discussion ALL SPEAKERS PANEL
17:00 – 18:30	Afternoon Break-out sessions and Masterclass IV with Josie Hughes

EMBODIED INTELLIGENCE CONFERENCE'25



HIROKI UEDA

Riken, University of Tokyo, Japan

WHY DO WE SLEEP? THE ROLE OF CALCIUM AND PHOSPHORYLATION IN SLEEP



MICHAEL LEVIN

Tufts University, USA

DIVERSE INTELLIGENCE IN UNCONVENTIONAL SUBSTRATES: LIFE AND BEYOND



KAREN ADOLPH

New York University, USA

LEARNING TO WALK: LESSONS FROM BABIES, BOTS, AND PIGLETS

03 APRIL 2025

MORNING SESSION

SESSION CHAIR: CHAPA SIRITHUNGE

09:15 – 09:30	Welcome and Introduction CHAPA SIRITHUNGE
09:30 – 10:15	Plenary Talk: HIROKI UEDA
10:15 – 10:30	Coffee Break
10:30 – 12:00	SHORT TALKS AND PANEL DISCUSSIONS
12:00 – 13:00	Lunch Break-out sessions and Masterclass III with Kohei Nakajima

AFTERNOON SESSION

SESSION CHAIR: PERLA MAIOLINO

13:00 – 13:15	Morning session summary PERLA MAIOLINO
13:15 – 14:00	Plenary talk: MICHAEL LEVIN
14:00 – 15:30	SHORT TALKS AND PANEL DISCUSSIONS
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: KAREN ADOLPH
16:30 – 17:00	Day 2 discussion ALL SPEAKERS PANEL
17:00 – 18:30	Afternoon Break-out sessions and Masterclass IV with Josh Bongard

EMBODIED INTELLIGENCE CONFERENCE'25

SHORT TALKS & PANEL DISCUSSIONS

MORNING PANEL & TALKS/ SESSION CHAIR: KOHEI NAKAJIMA

LEAD TALK



10:30 – 10:40
Kohei Nakajima



10:40 -10:50
Jenny Read



10:50 – 11:00
Haoliang Li



11:00 – 11:10
Mohsen Kaboli

PANEL DISCUSSION: 11.20 – 12.00

AFTERNOON PANEL & TALKS/ SESSION CHAIR: MATEJ HOFFMAN

LEAD TALK



14:00 – 14:10
Matej Hoffman



14:10 -14:20
Hiroki Sayama



14:20 – 14:30
Oliver Brock



14:30 – 14:40
Stephanie Gil

PANEL DISCUSSION: 14.40 – 15.30

EMBODIED INTELLIGENCE CONFERENCE'25: BREAK-OUT SESSIONS

03 APRIL 2025/MORNING SESSION: 12:00 – 13:00

MASTERCLASS III (BS 2-1-1)	SESSION 1 (BS 2-1-2)	SESSION 2 (BS 2-1-3)	SESSION 3 (BS 2-1-4)
Non-linear Dynamics and Reservoir Computing	Robotics and Natural Systems	Functional Materials and Designs	Cyber-Physical Systems
KOHEI NAKAJIMA	Chair: Dana Damian Co-Chair: Xiang Wang	Chair: Jerry Xu Co-chair: Catherine Merchant	Chair: Ryman Hashem Co-chair: Amanda Xu
Leone Costi	Oliver Brock	Maria Elena Giannaccini	Antonia Georgopoulou
Fan Ye	Ronnie Videla Francisco Parada Claudio Aguayo	Jialun Liu	Zihan Zhao
Kai-Fung Chu	Rajalakshmy Dr.P.	Seyedreza Kashef Tabrizian	Haoyi Zhang
	Jie Wang	Sareum Kim	Yi Zhang
		Jerry Xu	
PANEL DISCUSSIONS			

EMBODIED INTELLIGENCE CONFERENCE'25: BREAK-OUT SESSIONS

03 APRIL 2025/AFTERNOON SESSION: 17:00 - 18:30

MASTERCLASS IV (BS 2-2-1):	SESSION 1 (BS 2-2-2)	SESSION 2 (BS 2-2-3)	SESSION 3 (BS 2-2-4)
How to conduct EI research	Applied Cognitive Psychology	Self-Organised Systems	Soft Robotics and Sensing
JOSIE HUGHES	Chair: Yue Xie Co-chair: Huijiang Wang	Chair: Shuhe Miyashita Co-chair: David Hardman	Chair: Thomas Thuruthel Co-chair: Richard Monteiro
Catherine Merchant	Henry Cerbone	Parent Jesse	Robert Katzschnann
Amanda Xu	Jose A. Fernandez-Leon	Gokul Saseendra Panicker	Yunqi Huang
Alessandra Yu	Johan Lind	Baxi Chong	Federico Pigozzi
Paul Verschure	Nathaniel Wright	Alberto Comoretto	Shammo Dutta
	Avel Guénin-Carlut	Giuseppe Paolo	Mostafa Mohamed
	Laura Desiree Di Paolo	Heramb Modugula	Lola Cañamero
	Huijiang Wang	Aeden Gilliam	Monica Li
	Mumin Dar		Pratik Ingle
	Alexander Ross		
PANEL DISCUSSIONS			

EMBODIED INTELLIGENCE CONFERENCE'25

04 APRIL 2025

MORNING SESSION

SESSION CHAIR: THILINA LALITHARATHE

09:15 – 09:30	Summary Day 1 & 2 THILINA LALITHARATHE
09:30 – 10:15	Plenary Talk: ROBERT RIENER
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks and Panel discussions Chair: Poramate Manoonpong
12:00 – 12:15	Summary of the Conference FUMIYA IIDA
12:00 – 13:45	Lunch Break-out sessions and Masterclass V with Fumiya Iida

ROBERT RIENER

ETH Zurich, Switzerland



DO ROBOTS OUTPERFORM HUMANS IN HUMAN-CENTERED DOMAINS?

EMBODIED INTELLIGENCE CONFERENCE'25

04 APRIL 2025

SHORT TALKS & PANEL DISCUSSIONS

MORNING SESSION

SESSION CHAIR: THILINA LALITHARATHE

09:15 – 09:30	Summary Day 1 & 2 THILINA LALITHARATHE
09:30 – 10:15	Plenary Talk: ROBERT RIENER
10:15 – 10:30	Coffee Break
10:30 – 12:00	SHORT TALKS AND PANEL DISCUSSIONS
12:00 – 12:15	Summary of the Conference: FUMIYA IIDA
12:15 – 13:45	Lunch Break-out sessions and Masterclass V with Fumiya Iida

MORNING PANEL & TALKS

LEAD TALK



10:30 – 10:40

Poramate Manoonpong



10:40 -10:50

An Qi



10:50 – 11:00

Ilana Nisky



11:00 – 11:10

Yuki Nakagawa

PANEL DISCUSSION: 11.10 – 12.00

EMBODIED INTELLIGENCE CONFERENCE'25: BREAK-OUT SESSIONS

04 APRIL 2025/MORNING SESSION: 12:15 - 13:45

MASTERCLASS V (BS 3-1-1)	SESSION 1 (BS 3-1-2)	SESSION 2 (BS 3-1-3)	SESSION 3 (BS 3-1-4)
Embodied Intelligence	Human-Centered Systems	Soft Robotics	AI for Robotics
FUMIYA IIDA	Chair: David Hardman Co-chair: Amanda Xu	Chair: Huijiang Wang Co-chair: Nana Obayashi	Chair: Kai-Fung Chu Co-chair: Richard Monteiro
Naoto Yoshida	Sundararaman Krishnamoorthi	Aysha Alshehhi	Xiaowei Chi
Pou Wai Lei	Qinghua Guan	Sarokin Yauheni	Syed Abdullah Nazir
Ananya Gandhi	Giulia D'Angelo	Veikko Sariola	Xiaoping Zhang
Kadri-Ann Pankratov	Julien Serres	Bilge Baytekin	Valeria Becattini
Nick Wilkinson	Marin Moulard	Xiang Wang	Mohd Owais
	Angel P. del Pobil	Tianfeng Liang	Tanmay Gupta
	Tian Lan	Maki Sato	
	Qihan Jin	Sergiu Tcac Popescu	
	Sujay Kadam	Alexia Le Gall	
PANEL DISCUSSIONS			



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