



EI 2024

EMBODIED INTELLIGENCE
ONLINE CONFERENCE

20-22 MARCH 2024

EMBODIED INTELLIGENCE CONFERENCE

20-22 MARCH 2024

20 MARCH 2024

MORNING SESSION

09:00 – 09:30	Welcome and Introduction FUMIYA IIDA
09:30 – 10:15	Plenary Talk: TAKAO SOMEYA
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks/Panel discussion: CECILIA LASCHI SILVESTRO MICERA JUN SHINTAKE CARLOS GERSHENSON DAVID HOWARD

12:00 – 13:00 Lunch and Break-out sessions

AFTERNOON SESSION

13:00 – 13:15	Day 1: Morning Session summary JOSIE HUGHES
13:15 – 14:00	Plenary Talk: SILVIA VIGNOLINI
14:00 – 15:40	Short talks/Panel discussion: MATEJ HOFFMANN MARIANA MEDINA SANCHEZ ANDRES ARRIETA THILINA LALITHARATHE SHEILA MACRINE SHAN LUO
15:40 – 15:55	Coffee Break
15:55 – 16:40	Plenary talk: NEIL SHUBIN
16:40 – 17:10	Day 1 discussion ARSEN ABDULALI
17:10 – 18:40	Break-out sessions

21 MARCH 2024

MORNING SESSION

09:15 – 09:30	Summary Day 1 ARSEN ABDULALI
09:30 – 10:15	Plenary Talk: GENTIANE VENTURE
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks/Panel discussion: YUKIE NAGAI HUICHAN ZHAO AIMEE SAKES AMY KYUNGWON HAN SHUHEI MIYASHITA

12:00 – 13:00 Lunch and Break-out sessions

AFTERNOON SESSION

13:00 – 13:15	Day 2: Morning session summary JOSIE HUGHES
13:15 – 14:00	Plenary Talk: BRAD NELSON
14:00 – 15:30	Short talks/Panel discussion: PERLA MAIOLINO MIHOKO OTAKE-MATSUURA GEOFF NITSCHKE RIKA ANTONOVA TOMMASO RANZANI
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary Talk: JONATHAN HURST
16:30 – 17:00	Day 2 discussion JOSIE HUGHES
17:00 – 18:30	Break-out sessions

22 MARCH 2024

MORNING SESSION

09:15 – 09:30	Summary Day 1 & 2 ARSEN ABDULALI
09:30 – 10:15	Plenary Talk: CHARLES SPENCE
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks/Panel discussion: PORAMATE MANOONPONG SHINGO MAEDA BAS OVERVELDE BILGE BAYTEKIN THOMAS GEORGE-THURUTHEL

12:00 – 12:15 Summary of the Conference
FUMIYA IIDA

12:15 – 13:45 Lunch and Break-out sessions

NOTE THE TIMINGS GIVEN IN GMT
(Greenwich Mean Time)

DAY 1: 20 MARCH 2024

MORNING SESSION

SESSION CHAIR: JOSIE HUGHES

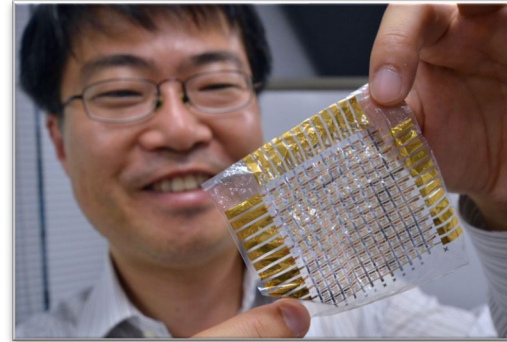
09:00 – 09:30	Welcome and Introduction FUMIYA IIDA
09:30 – 10:15	Plenary Talk: TAKAO SOMEYA
10:15 – 10:30	Coffee Break
10:30 – 12:00	Short talks and Panel discussions
12:00 – 13:00	Lunch and Break-out sessions

AFTERNOON SESSION

SESSION CHAIR: ARSEN ABDULALI

13:00 – 13:15	Morning Session summary JOSIE HUGHES
13:15 – 14:00	Plenary talk: SILVIA VIGNOLINI
14:00 – 15:40	Short talks and Panel discussions
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15:55 – 16:40	Plenary talk: NEIL SHUBIN
16:40 – 17:10	Day 1 discussion ARSEN ABDULALI
17:10 – 18:40	Break-out sessions

EMBODIED INTELLIGENCE CONFERENCE'24



TAKAO SOMEYA

University of Tokyo, Japan

ELECTRONIC SKINS FOR ROBOTICS
AND WEARABLES



SILVIA VIGNOLINI

University of Cambridge, United Kingdom

BIOMIMETIC ENGINEERING MATERIALS
FROM NATURE TO APPLICATIONS



NEIL SHUBIN

University of Chicago, USA

THE ORIGIN OF ORGANS:
500 MILLION YEARS OF EVOLVING
EMBODIED INTELLIGENCE

DAY 1: 20 MARCH 2024

MORNING SESSION

SESSION CHAIR: JOSIE HUGHES

09:00 – 09:30	Welcome and Introduction FUMIYA IIDA
09:30 – 10:15	Plenary Talk: TAKAO SOMEYA
10:15 – 10:30	Coffee Break
10:30 – 12:00	SHORT TALKS AND PANEL DISCUSSIONS
12:00 – 13:00	Lunch and Break-out sessions

AFTERNOON SESSION

SESSION CHAIR: ARSEN ABDULALI

13:00 – 13:15	Day 1: Morning session summary JOSIE HUGHES
13:15 – 14:00	Plenary talk: SILVIA VIGNOLINI
14:00 – 15:40	SHORT TALKS AND PANEL DISCUSSIONS
15:40 – 15:55	Coffee Break
15:55 – 16:40	Plenary talk: NEIL SHUBIN
16:40 – 17:10	Day 1 discussion ARSEN ABDULALI
17:10 – 18:40	Break-out sessions

EMBODIED INTELLIGENCE CONFERENCE'24 SHORT TALKS & PANEL DISCUSSIONS

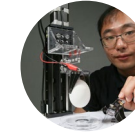
MORNING PANEL & TALKS/CHAIR: JOSIE HUGHES



10:30 – 10:40
LEAD TALK
Cecilia Laschi



10:40 -10:50
Silvestro Micera



10:50 – 11:00
Jun Shintake



11:00 – 11:10
Carlos Gershenson



11:10 – 11:20
David Howard

PANEL DISCUSSION: 11.20 – 12.00

AFTERNOON PANEL & TALKS/CHAIR: ARSEN ABDULALI



14:00 – 14:10
LEAD TALK
Matej Hoffmann



14:10 -14:20
Mariana Medina
Sanchez



14:20 – 14:30
Andres Arrieta



14:30 – 14:40
Thilina
Lalitharatne



14:40 – 14:50
Sheila Macrine



14:50 – 15:00
Shan Luo

PANEL DISCUSSION: 15.00 – 15.40

EMBODIED INTELLIGENCE CONFERENCE'24: BREAK-OUT SESSIONS

DAY 1: 20 MARCH 2024

MORNING SESSION

SESSION CHAIR: JOSIE HUGHES

09:00 – 09:30 Welcome and Introduction
FUMIYA IIDA

09:30 – 10:15 Plenary Talk:
TAKAO SOMEYA

10:15 – 10:30 **Coffee Break**

10:30 – 12:00 Short talks and
Panel discussions

12:00 – 13:00 **LUNCH AND
BREAK-OUT SESSIONS**

MORNING SESSION: 12:00 – 13:00

SESSION 1 (BS1-1-1):	SESSION 2 (BS1-1-2):
TOPIC: SOFT ROBOTICS	TOPIC: ADAPTIVE BEHAVIOURS
Chair: THILINA LALITHARATNE	Chair: PERLA MAIOLINO
Abdulaziz Alkayas	Oliver Brock
Thilina Lalitharatne	Avel Guénin-Carlut
Leone Costi	Jaemin Eom
Sojiro Sugiura	Taku Sugiyama
Miriam Filippi	Loong Yi Lee
PANEL DISCUSSIONS	

EMBODIED INTELLIGENCE CONFERENCE'24: BREAK-OUT SESSIONS

DAY 1: 20 MARCH 2024

AFTERNOON SESSION

SESSION CHAIR: ARSEN ABDULALI

13:00 – 13:15	Day 1: Morning session summary JOSIE HUGHES
13:15 – 14:00	Plenary talk: SILVIA VIGNOLINI
14:00 – 15:40	Short talks and Panel discussions
15:40 – 15:55	Coffee Break
15:55 – 16:40	Plenary talk: NEIL SHUBIN
16:40 – 17:10	Day 1 discussion JOSIE HUGHES

17:10 – 18:40 BREAK-OUT SESSIONS

AFTERNOON SESSION: 17:10 – 18:40

SESSION 1 (BS1-2-1):	SESSION 2 (BS1-2-2):	SESSION 3 (BS1-2-3):
MORPHOLOGICAL COMPUTATION	BIO-INSPIRING CYBERNETICS	SELF-ORGANISED SYSTEMS
Chair: CHAPA SIRITHUNGE	Chair: ARSEN ABDULALI	Chair: RYMAN HASHEM
Jialun Chester Liul	Robert Shepherd	Yunqi Huang
Kai Jungle	Andreagiovanni Reina	Angel P. Del Pobil
Syed Hussain Ather	Rana Faryad Ali	Shu Yang
Jonathan Mi	John Rieffel	Fan Ye
Joanna Jones	Max Polzin	Shanshan Du
Chapa Sirithunge	Mahdi Haghshenas-Jaryani	Kai-Fung Chu
Jiaqi Wang	Yue Xie	Bradly Alicea
	Michael Ishida	Yi Zhang
PANEL DISCUSSIONS		

DAY 2: 21 MARCH 2024

MORNING SESSION

SESSION CHAIR: HUIJIANG WANG

09:15 – 09:30 Summary Day 1
ARSEN ABDULALI

09:30 – 10:15 Plenary Talk:
GENTIANE VENTURE

10:15 – 10:30 Coffee Break

10:30 – 12:00 Short talks and
Panel discussions

12:00 – 13:00 Lunch and
Break-out sessions

AFTERNOON SESSION

SESSION CHAIR: KAI FUNG CHU

13:00 – 13:15 Day 2: Morning session summary
JOSIE HUGHES

13:15 – 14:00 Plenary talk:
BRAD NELSON

14:00 – 15:30 Short talks and
Panel discussions

15:30 – 15:45 Coffee Break

15:45 – 16:30 Plenary talk:
JONATHAN HURST

16:30 – 17:00 Day 2 discussion
JOSIE HUGHES

17:00 – 18:30 Break-out sessions

EMBODIED INTELLIGENCE CONFERENCE'24



GENTIANE VENTURE

University of Tokyo, Japan

ROBOTS AND US:
PROBING THE BOUNDARIES OF INTEGRATION



BRAD NELSON

EHT Zurich, Switzerland



JONATHAN HURST

Oregon State University, USA

HUMAN-CENTRIC ROBOTS:
CREATING EMBODIED AI

DAY 2: 21 MARCH 2024

MORNING SESSION

SESSION CHAIR: HUIJIANG WANG

09:15 – 09:30	Welcome and Introduction ARSEN ABDULALI
09:30 – 10:15	Plenary Talk: GENTIANE VENTURE
10:15 – 10:30	Coffee Break
10:30 – 12:00	SHORT TALKS AND PANEL DISCUSSIONS
12:00 – 13:00	Lunch and Break-out sessions

AFTERNOON SESSION

SESSION CHAIR: KAI-FUNG CHU

13:00 – 13:15	Morning session summary JOSIE HUGHES
13:15 – 14:00	Plenary talk: BRAD NELSON
14:00 – 15:30	SHORT TALKS AND PANEL DISCUSSIONS
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: JONATHAN HURST
16:30 – 17:00	Day 2 discussion JOSIE HUGHES
17:00 – 18:30	Break-out sessions

EMBODIED INTELLIGENCE CONFERENCE'24

SHORT TALKS & PANEL DISCUSSIONS

MORNING PANEL & TALKS/CHAIR: HUIJIANG WANG



10:30 – 10:40
LEAD TALK
Yukie Nagai



10:40 -10:50
Huichan Zhao



10:50 – 11:00
Aimee Sakes



11:00 – 11:10
Amy Kyungwon Han



11:10 – 11:20
Shuhei Miyashita

PANEL DISCUSSION: 11.20 – 12.00

AFTERNOON PANEL & TALKS/CHAIR: KAI FUNG CHU



14:00 – 14:10
LEAD TALK
Perla Maiolino



14:10 -14:20
Mihoko
Otake-Matsuura



14:20 – 14:30
Geoff Nitschke



14:30 – 14:40
Rika Antonova



14:40 -14:50
Tommaso Ranzani

PANEL DISCUSSION: 14.50 – 15.30

EMBODIED INTELLIGENCE CONFERENCE'24: BREAK-OUT SESSIONS

DAY 2: 21 MARCH 2024

MORNING SESSION

SESSION CHAIR: HUIJIANG WANG

09:15 – 09:30 Welcome and Introduction
ARSEN ABDULALI

09:30 – 10:15 Plenary Talk:
GENTIANE VENTURE

10:15 – 10:30 Coffee Break

10:30 – 12:00 Short talks and
Panel discussions

12:00 – 13:00 LUNCH AND
BREAK-OUT SESSIONS

MORNING SESSION: 12:00 – 13:00

SESSION 1 (BS 2-1-1)	SESSION 2 (BS 2-1-2)
FUNCTIONAL MATERIALS AND DESIGNS	AI FOR ROBOTICS
Chair: HUIJIANG WANG	Chair: THOMAS GEORGE-THURUTHEL
Liang Li	Xiaoping Zhang
Nana Obayashi	Stefan Ilic
Chenying Liu	Veikko Sariola
Seyedreza Kashef Tabrizian	Marta Zheplinska
Francesco Stella	Raye Yeow
PANEL DISCUSSIONS	

EMBODIED INTELLIGENCE CONFERENCE'24: BREAK-OUT SESSIONS

DAY 2: 21 MARCH 2024

AFTERNOON SESSION

SESSION CHAIR: KAI-FUNG CHU

13:00 – 13:15	Day 2: Morning session summary JOSIE HUGHES
13:15 – 14:00	Plenary talk: BRAD NELSON
14:00 – 15:30	Short talks and Panel discussions
15:30 – 15:45	Coffee Break
15:45 – 16:30	Plenary talk: JONATHAN HURST
16:30 – 17:00	Day 2 discussion JOSIE HUGHES

17:00 – 18:30 BREAK-OUT SESSIONS

AFTERNOON SESSION: 17:00 – 18:30

SESSION 1 (BS2-2-1):	SESSION 2 (BS2-2-2):	SESSION 3 (BS2-2-3):
HUMAN-CENTRED SYSTEMS	COMPUTATIONAL APPROACHES	CYBER-PHYSICAL SYSTEMS
Chair: CHAPA SIRITHUNGE	Chair: KAI-FUNG CHU	Chair: ERIN NOLAN
Adam Safron	Adamyia Singh Dhaker	Huijiang Wang
Georgina Montserrat Reséndiz-Benhumea	Alexandra Nilles	Mathieu Lefort
Luca Sarramone	Carlo Alessi	Vijay Chandiramani
Maria Elena Giannaccini	David Hardman	Swapnil Kumar
Tara Chand	Jesse Parent	Jose A Fernandez-Leon
Mahault Albarracin	Barry Mulvey	Xiang Wang
Magdalena Kersting	W. B. Langdon	Andrea Protopapa
Elijah Almanzor	Sam Schaefer	Erin Nolan
PANEL DISCUSSIONS		

DAY 3: 22 MARCH 2024

MORNING SESSION

SESSION CHAIR: ARSEN ABDULALI

09:15 – 09:30	Summary Day 1 & 2 ARSEN ABDULALI
09:30 – 10:15	Plenary Talk: CHARLES SPENCE
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
12:00 – 13:45	Lunch and Break-out sessions

EMBODIED INTELLIGENCE CONFERENCE'24



CHARLES SPENCE

University of Oxford, United Kingdom

GASTROPHYSICS:
ON THE COMPLEXITY OF MULTISENSORY FLAVOUR PERCEPTION

EMBODIED INTELLIGENCE CONFERENCE'24

DAY 3: 22 MARCH 2024

MORNING SESSION

SESSION CHAIR: ARSEN ABDULALI

09:15 – 09:30 Summary Day 1 & 2
ARSEN ABDULALI

09:30 – 10:15 Plenary Talk:
CHARLES SPENCE

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 and Break-out sessions

SHORT TALKS & PANEL DISCUSSIONS

MORNING PANEL & TALKS/CHAIR: JOSIE HUGHES



10:30 – 10:40

LEAD TALK

Poramate
Manoonpong



10:40 -10:50

Shingo Maeda



10:50 – 11:00

Bas Overvelde



11:00 – 11:10

Bilge Baytekin



11:10 – 11:20

Thomas
George-Thuruthel

PANEL DISCUSSION: 11.20 – 12.00

EMBODIED INTELLIGENCE CONFERENCE'24: BREAK-OUT SESSIONS

DAY 3: 22 MARCH 2024

MORNING SESSION

SESSION CHAIR: ARSEN ABDULALI

09:15 – 09:30	Summary Day 1 & 2 ARSEN ABDULALI
09:30 – 10:15	Plenary Talk: CHARLES SPENCE
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 AND BREAK-OUT SESSIONS

MORNING SESSION: 12:15 – 13:45

SESSION 1 (BS 3-1-1)	SESSION 2 (BS 3-1-2)	SESSION 3 (BS 3-1-3)
LIFE WITH MACHINES	APPLIED COGNITIVE PSYCHOLOGY	OPEN DISCUSSIONS
Chair: HUIJIANG WANG	Chair: KAI-FUNG CHU	Chair: FUMIYA IIDA
Jeffrey White	Yudai Yamamoto	FREE DISCUSSION ON CONFERENCE TOPICS OPEN TO ALL PARTICIPANTS
Yiyuan Zhang	Mingqi Yuan	
Chenhao Hong	Apoorv Vaish	
Ata Jahangir Moshayedi	Fernando Rodriguez	
Jharana Rani Rabha	Dieter Büchler	
Upoma Bhuiyan	Changheng Cai	
Jie Xu		
PANEL DISCUSSIONS		



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