

desform19.org  
desform19@mit.edu

# DESFORM 2019 CONFERENCE PROGRAM

## DAY 1

WEDNESDAY, OCTOBER 9TH, 2019

Samberg Center, 6th Floor  
Building E52, MIT Campus  
50 Memorial Drive,  
Cambridge, MA 02139

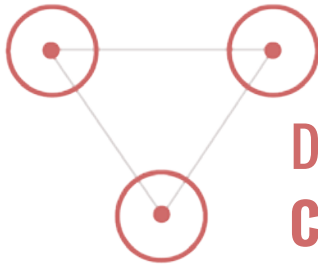
- 3.00 Registration opens
- 3.30 - 3.45 Welcome & Introduction
- 3.45 - 4.30 **Panel Presentations**  
**Beyond Digital:**  
**Designing with Living Things**
- Orkan Telhan, PhD  
*Cofounder, Chief Design & Technology Officer.*  
*Biorealize Inc.*
- Jiwon Woo  
*Biodesigner*
- Jorge Duro-Royo  
*Mediated Matter Group, MIT Media Lab*
- 4.30 - 4.45 Break
- 4.45 - 5.30 **Panel Discussion / Q&A**  
*Moderated by Scott Penman*
- 6.00 - 8.00 **Conference Reception**  
*(Please bring your ID/Passport for alcoholic beverages)*

## DAY 2

THURSDAY, OCTOBER 10TH, 2019

Samberg Center, 6th Floor  
Building E52, MIT Campus  
50 Memorial Drive,  
Cambridge, MA 02139

- 8.15 - 9.00 Registration & Breakfast
- 9.00 - 9.15 **Welcome**  
*Federico Casalegno, MIT Design Lab*
- 9.15 - 9.30 **Conference Opening Words**  
*Yihyun Lim, Sara Colombo*  
*Conference Chairs*
- 9.30 - 10.30 **Keynote Presentation**  
**Martin Wattenberg**  
*Google PAIR*  
*(People & AI Research)*
- 10.30 - 10.45 Coffee Break
- 10.45 - **Paper Session 1.**  
**Design Manifestos:**  
**What's Next.**
- 10.45 - 11.05 **Future Forecasting Wicked Problem: A New Framework For Design**  
*Filippo Sanzeni*  
*Ashley Hall*  
*Paul Anderson*  
*(Royal College of Art, London)*
- 11.05 - 11.25 **Eventual Design for an Emergent World**  
*Nathan Felde*  
*(Northeastern University, Boston)*



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## DAY 2 (continued)

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11.25 - 11.45 **The Decentralization Turns in Design: An Exploration Through the Maker Movement**

*Massimo Menichinelli*

(RMIT University, Barcelona, Aalto University, Helsinki)

*Priscilla Ferronato*

(University of Illinois, Urbana-Champaign)

11.45 - 12.00 Coffee Break

12.00 - Paper Session 2.

**Interacting with  
Domestic Intelligences**

12.00 - 12.20 **The Domestic Shape of AI: A Reflection on Virtual Assistants**

*Davide Spallazzo*

*Martina Sciannname*

*Mauro Ceconello*

(Politecnico di Milano)

12.20 - 12.40 **Conversational Smart Products: a Research Opportunity, First Investigation and Definition**

*Ilaria Vitali*

*Venanzio Arquilla*

(Politecnico di Milano)

12.40 - 2.30 Lunch

**Short Paper Poster**

**+ Demo Sessions**

(To be held concurrently during lunch - Short Paper authors to be available for demonstration of project prototypes and Q&A)

### List of Short Papers

**Prosumeristic Publications: alt+yd**

*Harshali Paralakar, Ajitesh Lokhande*

(National Institute of Design, Paldi, Ahmedabad, Gujarat, India)

**Swimming Coach: An Immersive Swimming Learning System**

*Shuo Li, Cheng Yao, Mingxuan He,*

*Qingcong Wang, Ying Wang, Yuyu Lin, Juanli Liu* (Zhejiang University, Hangzhou),

*Fan Xia* (Mercyhurst Preparatory School, Erie),

*Leijing Zhou* (Zhejiang University, Hangzhou)

**Designing Transparent Collaborations: Weave**

*Gisoo Doroudian*

(College for Creative Studies, Detroit)

**Huxley: Intelligent Book as Essentialist Artefact**

*David Ramsay, Joe Paradiso*

(Massachusetts Institute of Technology, Cambridge)

**OlfacEnhancer: A Vision-Based Scented Necklace for Cross-Modal Perception and Olfaction Augmentation**

*Yuyu Lin, Kai Zheng, Lijuan Liu, Yang Chen,*

*Jiahao Guo, Shuo Li, Cheng Yao*

(Zhejiang University, Hangzhou),

*Fangtian Ying* (Hubei University of Technology, Wuhan)

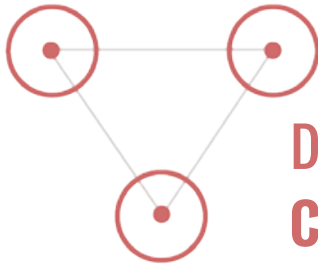
**Aposema**

*Adi Meyer, Sirou Peng, Silvia Rueda*

(University College London)

**Playing with Systems: Tactile Games as Systems Prototypes**

*Tom Maiorana* (University of California, Davis)



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## DAY 2 (continued) THURSDAY, OCTOBER 10TH, 2019

### List of Short Papers (continued)

#### **HuValue: A Toolkit to Facilitate Considering Various Human Values in a Design Process.**

*Shadi Kheirandish, Mathias Funk, Stephan Wensveen (Eindhoven University of Technology), Maarten Verkerk (Maastricht University), Matthias Rauterberg (Eindhoven University of Technology)*

#### **Attributes of Aliveness: A Case Study of Two Interactive Public Art Installations**

*Humbi Song, Oliver Luo and Allen Sayegh (Harvard University, Cambridge)*

#### **Understanding User Customization Needs: Requirements for an Augmented Reality Lamp Customization Tool.**

*Ana Carina Palumbo, Hella Kriening, Barbara Wajda (Eindhoven University of Technology), Monica Perusquia-Hernandez (Eindhoven University of Technology, NTT Communication Science Laboratories)*

#### **Speculating on the Future of Graphic Design in the Age of Intelligent Machines**

*Sekyeong Kwon and Robyn Cook (Falmouth University)*

#### **Intelligent Clothing Aesthetic Evaluation**

*Xingxing Zou, Waikeung Wong (The Hong Kong Polytechnic University)*

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### 2.30 - Paper Session 3A

#### **Interacting with Urban Intelligences (I)**

#### **2.30 - 2.50 AI-to-Microbe Architecture: Simulation, Intelligence, Consciousness**

*Dennis Dollens (Universitat Internacional de Catalunya, Barcelona)*

#### **2.50 - 3.10 Envisioning and Questioning Near Future Urban Robotics**

*Maria Luce Lupetti (Delft University of Technology)  
Nazli Cila (Amsterdam University of Applied Sciences)*

#### **3.10 - 3.30 Robot Citizenship: a Design Perspective**

*Maria Luce Lupetti, Roy Bendor (Delft University of Technology)  
Elisa Giaccardi (Umea Institute of Design)*

### 3.30 - 3.45 Coffee Break

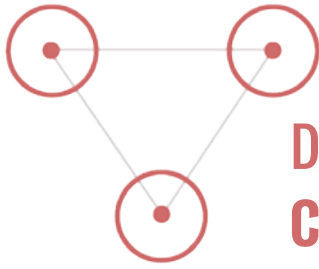
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### 3.45 - Paper Session 3B

#### **Interacting with Urban Intelligences (II)**

#### **3.45 - 4.05 Towards Transparency Between the Autonomous Vehicle and the Pedestrian**

*Selin Zileli, Stephen Boyd Davis, Jiayu Wu (Royal College of Art, Intelligent Mobility Design Centre, London)*



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## DAY 2 (continued)

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4.05 - 4.25 **The Coerced User and the Era of the Smart City Dissonance**  
*Guy Cherni, Roei Bigger*  
(Bezalel Academy of Arts and Design, Jerusalem)

4.25 - 5.30 **Keynote Presentation**  
**Matthias Rauterberg**  
*Full Professor for Interactive Systems Design,  
Department of Industrial Design,  
Eindhoven University of Technology, TU/e  
The Netherlands*

6.00 - 8.00 **Conference Social Dinner**  
Charles River Sunset Cruise Dinner  
*Departure from MIT Sailing Pavilion*

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## DAY 3

FRIDAY, OCTOBER 11TH, 2019

Bartos Theater  
Building E15 Lower Level  
20 Ames Street  
Cambridge, MA 02139

8.15 - 9.00 Registration & Breakfast

9.00 - 9.15 Welcome

9.15 - 10.15 **Keynote Presentation**  
**Charles Johnson**  
*Global Director Innovation, PUMA*

10.15 - Paper Session 4

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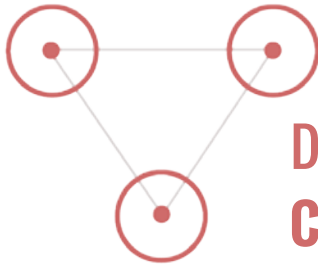
### **New Interfaces for Complex Ecosystems**

10.15 - 10.35 **Drawing Interfaces: When  
Interaction Becomes Situated and  
Variable**  
*Ilaria Mariani (Politecnico di Milano)*  
*Tommaso Livio (Think)*  
*Umberto Tolino (Politecnico di Milano, Think)*

10.35 - 10.55 **Individual Mid-Air Gesture Informed  
by Conceptual Metaphors: A Case  
Study on How Users Generate Mid-  
Air Gesture Sets to Control Video  
Streaming**  
*Gulben Sanli Eren*  
(Istanbul Technical University)

10.55 - 11.15 **A Pedagogy for Noticing - Soma  
Literacy and the Designer**  
*Stephen Neely*  
(Carnegie Mellon University, Pittsburgh)

11.15 - 11.30 Coffee Break



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## DAY 3 (continued)

FRIDAY, OCTOBER 11TH, 2019

11.30 - Paper Session 5.  
**Smart and Multi-Sensory Systems  
for Behavior Change**

11.30 - 11.50 **Designing Phygital Activities in  
a Smart Multisensorial Room:  
A Collaborative Cognitive  
Environment for Children with and  
without Disabilities**  
*Micol Spitale, Agnese Piselli,  
Franca Garzotto, Barbara Del Curto*  
(Politecnico di Milano)

11.50 - 12.10 **Recommendations when Designing  
to Address Procrastination: A  
Psychological Perspective**  
*Helen Andreae*  
(Northumbria University, Newcastle upon Tyne,  
Victoria University of Wellington)  
*Abigail Durrant, Steven Kyffin*  
(Northumbria University, Newcastle upon Tyne)

12.10 - 12.30 **R2S: Designing a Public Augmented  
Printed Media System to Promote  
Care Home Residents' Social  
Interaction**  
*Kai Kang, Jun Hu, Bart Hengeveld,  
Caroline Hummels*  
(Eindhoven University of Technology)

12.30 - 2.15 Lunch +  
**Workshop / Participatory  
Performance**  
*by Stephen Neely*

2.15 - Paper Session 6.  
**Design and Semantics for Health  
and Inclusion**

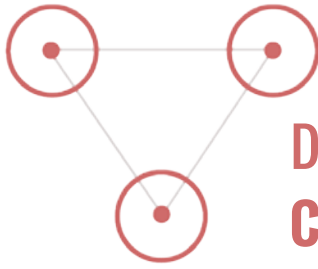
2.15 - 2.35 **Nova Creatio: A Clinical  
Perspective on Rehabilitative  
Everyday Objects for People with  
Chronic Stroke**  
*Mailin Lemke, Edgar Rodriguez Ramirez,  
Brian Robinson*  
(Victoria University of Wellington)

2.35 - 2.55 **The Semantics of Conspicuity:  
Design Strategies to Address  
Conspicuity in Type 1 Diabetes  
Medical Devices for Adolescents**  
*Madeleine J. Hazelton, Gillian M.  
McCarthy, Edgar R. Rodriguez Ramirez*  
(Victoria University of Wellington)

2.55 - 3.15 **Sitting Still. Seat Design for a New  
Head-Only MRI Scanner**  
*Christy Wells, Edgar Rodriguez  
Ramirez, Mailin Lemke,  
Benjamin Parkinson*  
(Victoria University of Wellington)

3.15 - 3.35 **Designing Research Prototype for  
the Elderly: A Case Study**  
*Cun Li, Jun Hu, Bart Hengeveld,  
Caroline Hummels*  
(Eindhoven University of Technology)

3.35 - 3.50 Coffee Break



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## DAY 3 (continued)

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- 3.50 - Paper Session 7.  
**Designing with Humans, Machine Intelligence and Data**
- 3.50 - 4.10 **Plug-ins Jungle. Algorithmic Design as Inbuilt Dynamism Between Human and Artificial Creativity**  
*Giuseppe Bono (University College London)*  
*Pilar Maria Guerrieri (Politecnico di Milano)*
- 4.10 - 4.30 **Defining a Data Impact Tool for Design Courses**  
*Laura Varisco, Margherita Pillan (Politecnico di Milano)*  
*Patrizia Marti (Universita' degli Studi di Siena)*
- 4.10 - 5.00 Closing Words

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## DAY 4

SATURDAY, OCTOBER 12TH, 2019

- 11.00 - 4.00 **Cultural Event**  
**Boston Brewing & Beyond**  
Craft Beer Brewery Tour of Boston
- (Details to be announced - Please bring comfortable walking shoes)*