

The two day symposium **Robots that Build. The Extensions of Man.** examines robotic fabrication within the framework of craft, craft-anchored techniques and multi-material systems. Under the paradigm of process efficiency and optimisation, robotic fabrication is extensively employed to primarily diminish manual labour and minimise margins of error or waste. Yet, robotic use can be also viewed as a means to translate, adapt and advance craft-anchored manufacturing techniques.

Nearly 25 years after the publishing of McCullough's "Abstracting Craft. The Practiced Digital Hand.", the symposium is set out to test the current state and correlation between robotic fabrication and what is conventionally understood as craft.

The event brings together experts from leading research institutes and architecture schools in the fields of architecture, robotic fabrication, computational design and innovative material systems. Themes to be discussed are the robotic translation of craft-anchored techniques, the relationship between tool, material, designer, and control of robotic processes.

The talks explore the past, present and future of robots and robotic fabrication in architecture through the lens of multi-materiality, the design of process and hybridised practices. The relationship between low-tech and high-tech in construction and the intelligence of systems — analogue vs digital — are key aspects we interrogate.

Innovative practices, current and future challenges of robotic fabrication, experimental material use and circular strategies are addressed and examined.



dutch design week



supported by:



designed by lukasgrossmann.design



Robots ↳ that Build

the
Extensions
of Man

two days conference

OCTOBER 20. + 21.
8.45 AM – 5.30 PM

TU EINDHOVEN
Department of the
Built Environment

Digital craft, robotic fabrication,
circularity, material systems,
computational design, automation
and material cultures.

robotsthatbuild.org

**DAY 1,
20.10.2022**

↳ **Corona Zaal, LUNA**

08:45 - 09:00

Registration & Coffee

Welcome Talk
09:00 - 09:05

**Department of the
Built Environment**

Welcome Talk
09:05 - 09:15

**Cristina Nan &
Sergio M. Figueiredo**

Talk 1
09:15 - 10:00

Martin Tamke
ROYAL DANISH ACADEMY

Talk 2
10:00 - 10:45

Roberto Naboni
SOUTHERN DENMARK
UNIVERSITY

10:45 - 11:00

Comfort Break

Talk 3
11:00 - 11:45

Felix Amtsberg
UNIVERSITY STUTTGART

Talk 4
11:45 - 12:30

Oliver Tessmann
TU DARMSTADT

12:30 - 13:30

Lunch Break

Talk 5
13:30 - 14:15

Remo Pedreschi
UNIVERSITY OF EDINBURGH

Talk 6
14:15 - 15:00

Fabio Gramazio
ETH ZURICH (online)

15:00 - 15:15

Comfort Break

Talk 7
15:15 - 16:00

Cristina Nan
TU EINDHOVEN

16:00 - 16:45

Panel Discussion Q&A

↳ **Plaza, VERTIGO**

Exhibition OP.
17:00 - 17:30

**Cristina Nan &
Sergio M. Figueiredo**

open ended

Drinks & Dinner

**DAY 2,
21.10.2022**

↳ **De Zwarte Doos
Filmzaal, VERTIGO**

08:45 - 09:00

Registration & Coffee

Welcome Talk
09:00 - 09:05

**Department of the
Built Environment**

Welcome Talk
09:05 - 09:15

**Cristina Nan &
Sergio M. Figueiredo**

Talk 1
09:15 - 10:00

**Martyn
Dade-Robertson**
NEWCASTLE UNIVERSITY

Talk 2
10:00 - 10:45

Moritz Dörstelmann
KARLSRUHE INSTITUTE
OF TECHNOLOGY

10:45 - 11:00

Comfort Break

Talk 3
11:00 - 11:45

Lidia Ratoi
HONG KONG UNIVERSITY

Talk 4
11:45 - 12:30

Alex Dubor
IAAC CATALONIA

12:30 - 13:30

Lunch Break

↳ **Trappenzaal, VERTIGO**

Talk 5
13:30 - 14:15

Niccolo Casas
NICCOLO CASAS
ARCHITECTURE

Talk 6
14:15 - 15:00

Manuel Jimenez
BARTLETT SCHOOL
OF ARCHITECTURE

15:00 - 15:15

Comfort Break

Talk 7
15:15 - 16:00

Mariana Popescu
TU DELFT

16:00 - 16:45

Panel Discussion Q&A

16:45 - 17:00

Closing