

# INNOVATION TECHNOLOGY MANUFACTURE

# Ambiti di ricerca







FASHION





DESIGN









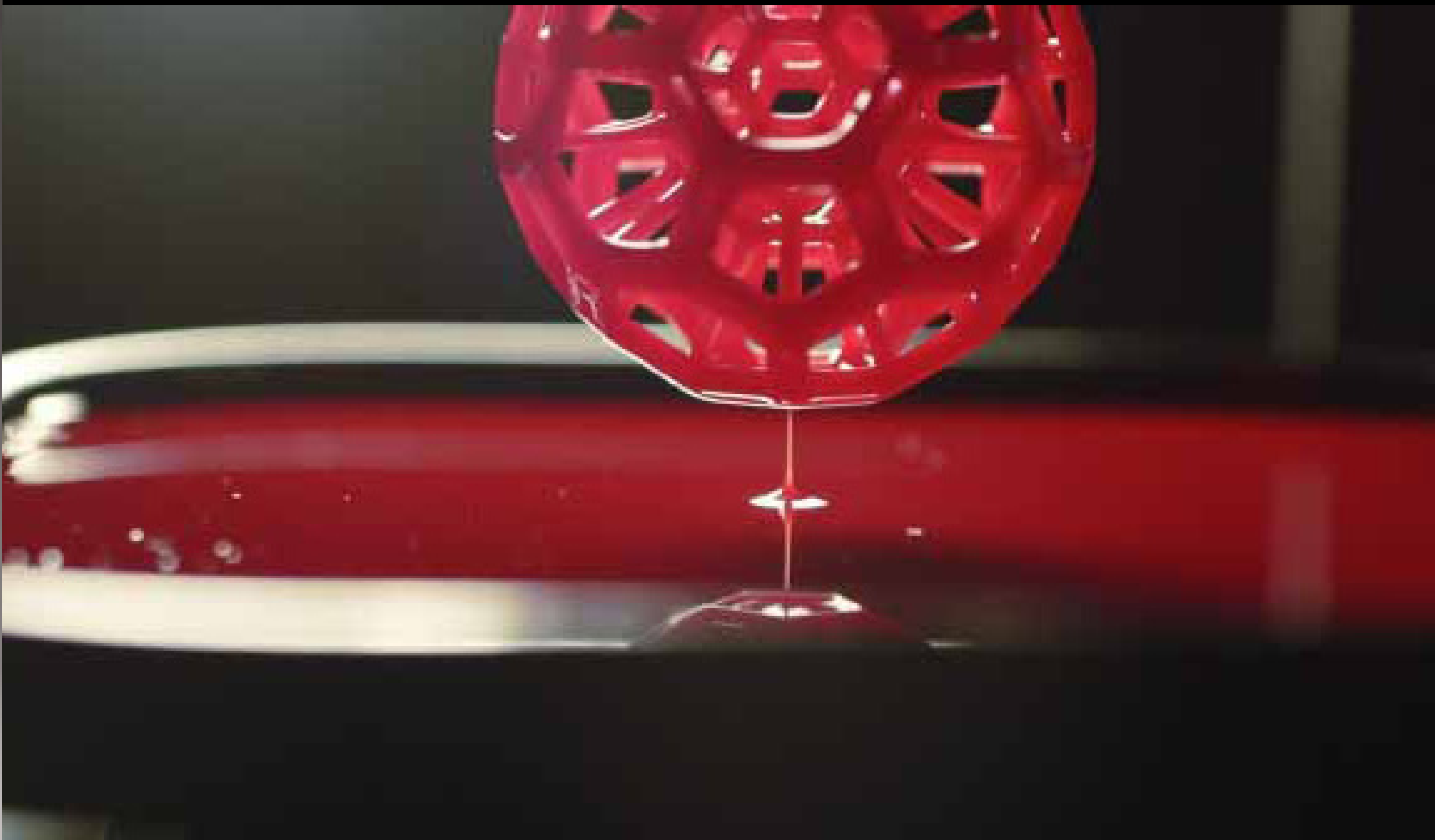




# Il parco macchine







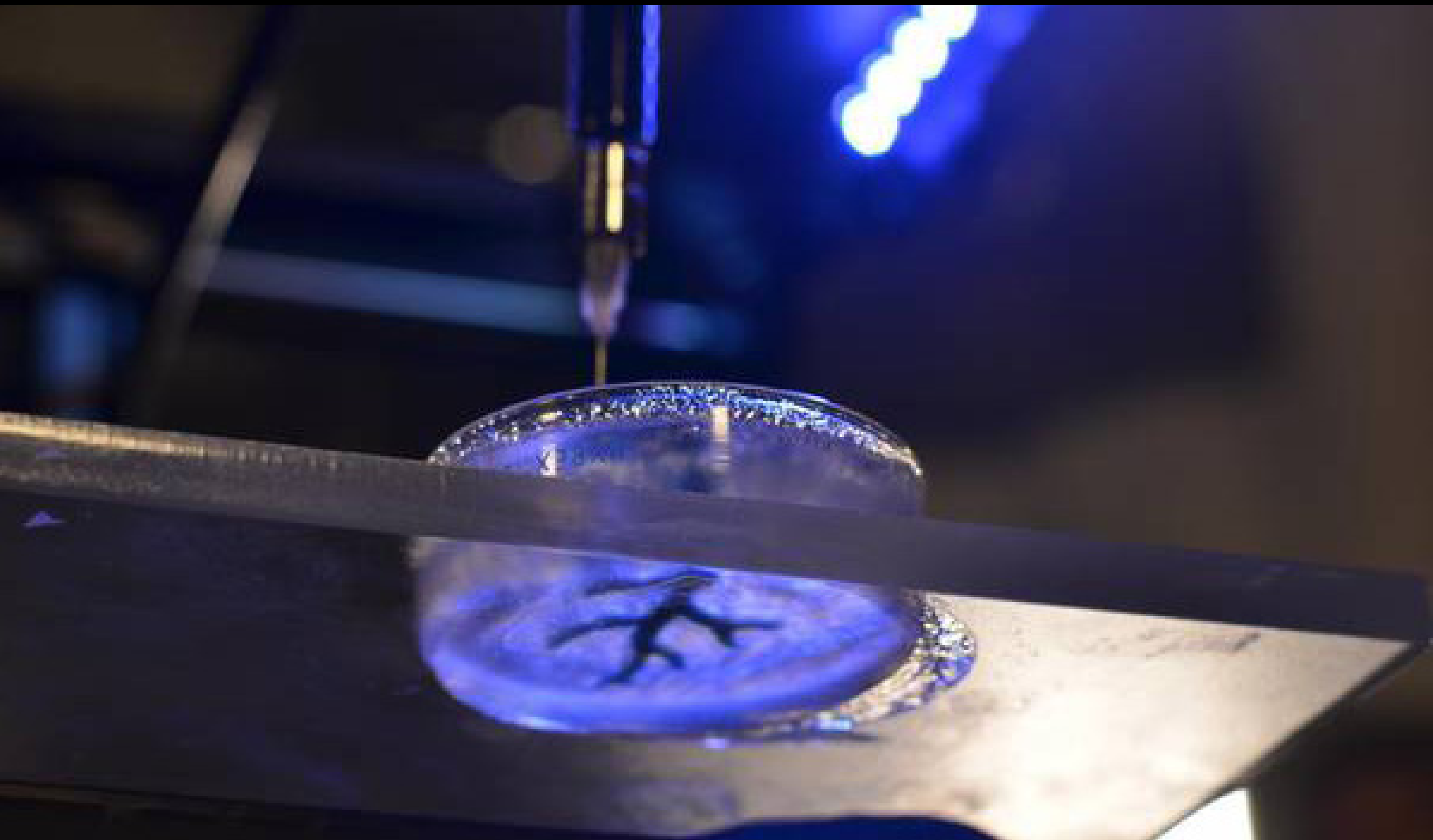




ABS













## LASER CUTTER





## PLASTICHE:

ABS (acrylonitrile butadiene styrene)

Acrylic ( Plexiglas, Lucite, PMMA)

Polyethylene (HDPE)

Polyimide

Polyester

Nylon

Polyethylene (PE)

Polypropylene (PP)

Styrene

# MATERIALI PLASTICI





## METALLI SOTTILI

Acciaio inossidabile (up to 0.060")

Acciaio armonico (up to 0.060")

# METALLI





## TESSUTI

Pelle

Canapa

Cotone

Feltro

Camoscio



LEGNI

MDF

Balsa

Betulla

Pioppo

Quercia Rossa

Ciliegio

Cgrifoglio

LEGNI













## MATERAILI VARI

Carta/ Cartoncino

Lamierini Magnetici

Gomme (senza cloro)

Teflon (PTFE, politetrafluoroetilene)







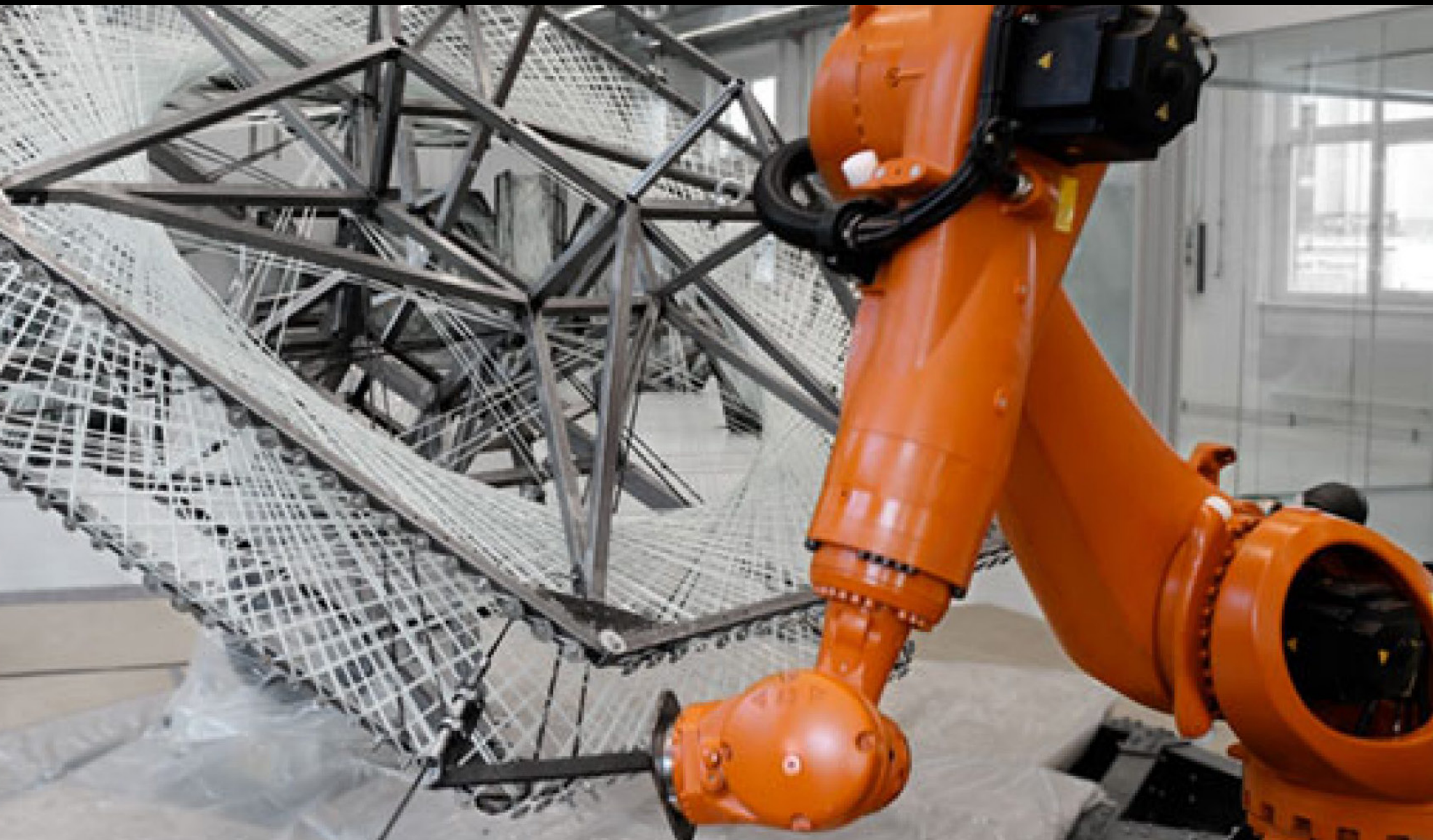






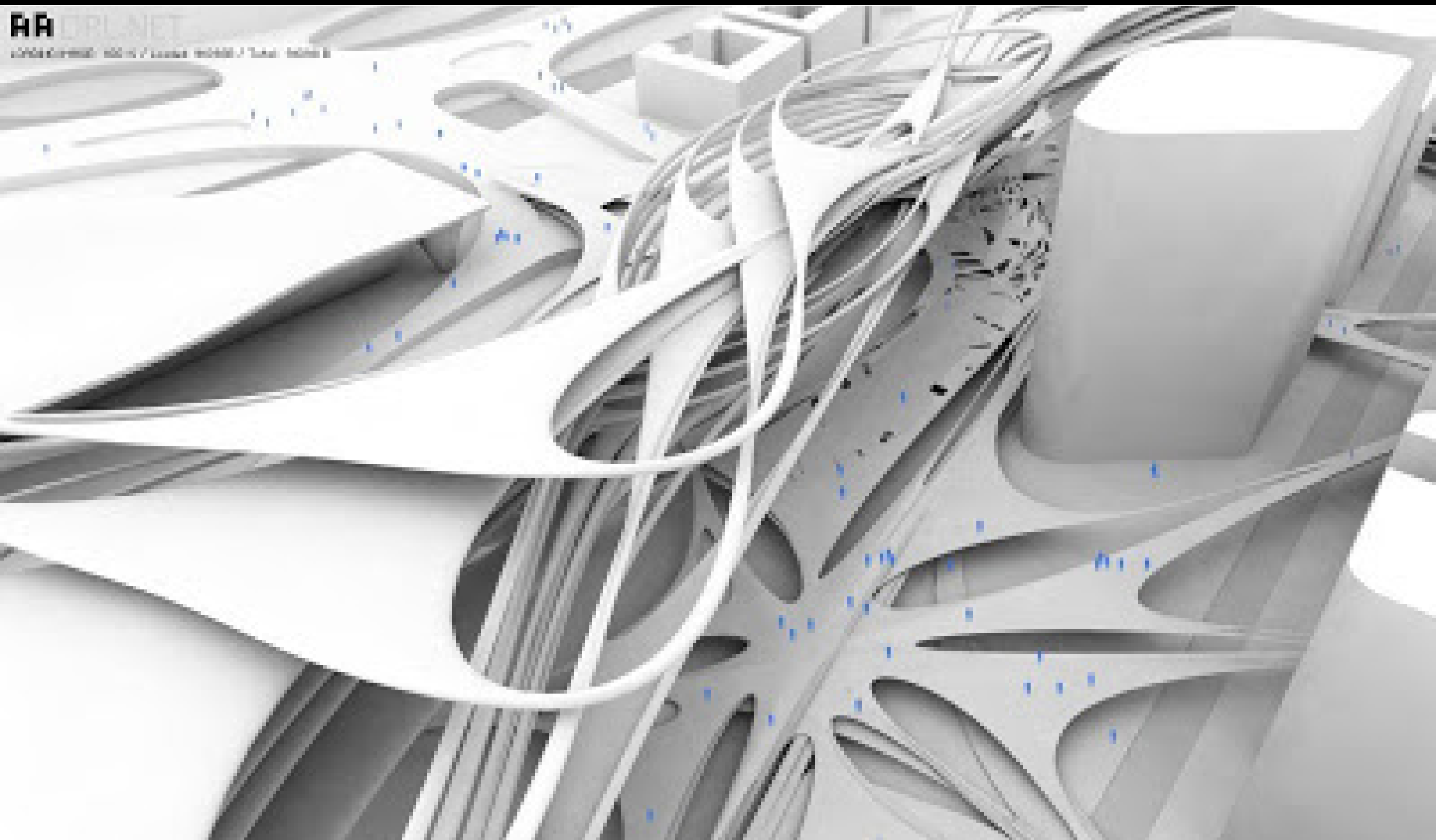
LEGNO





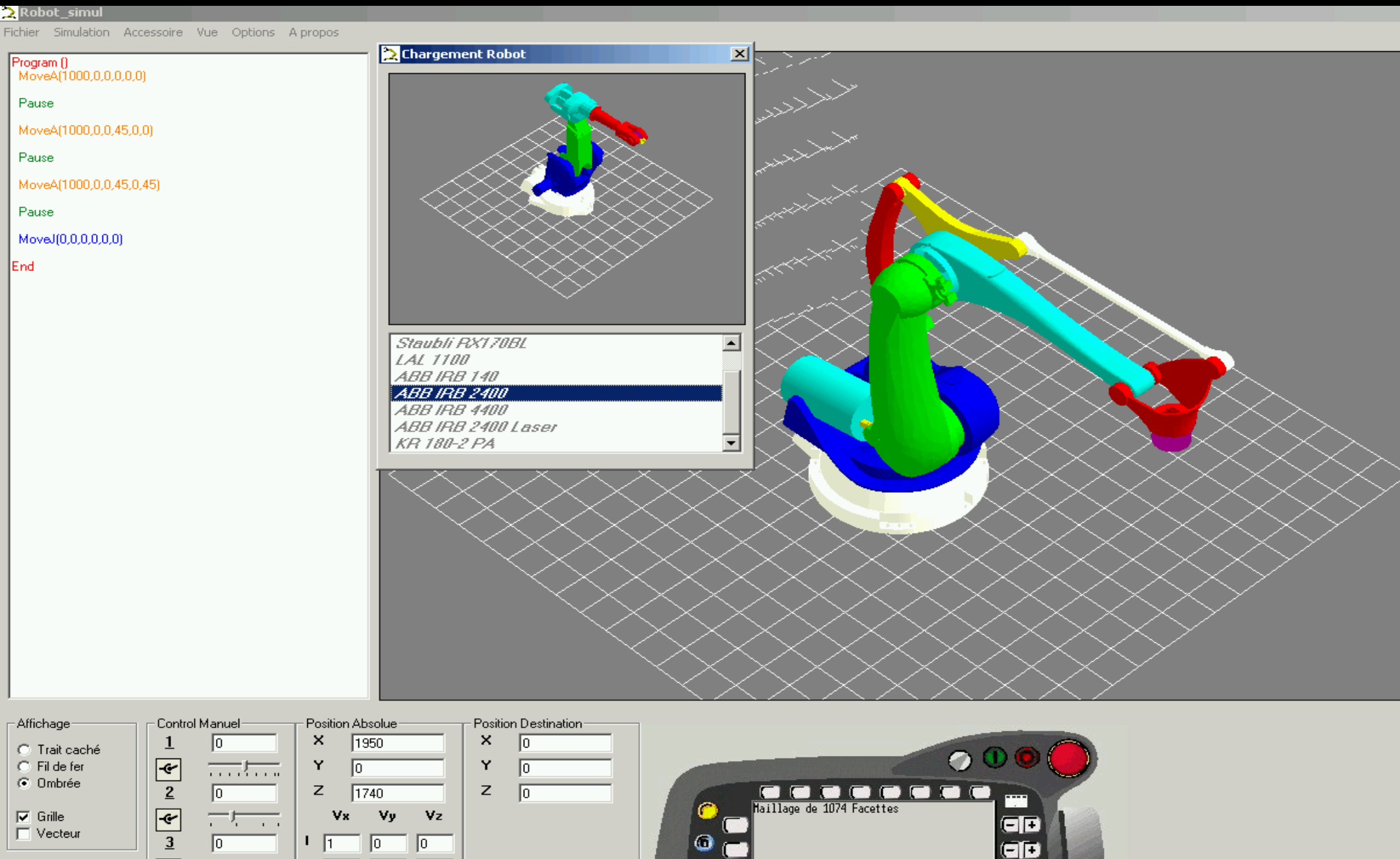
I software



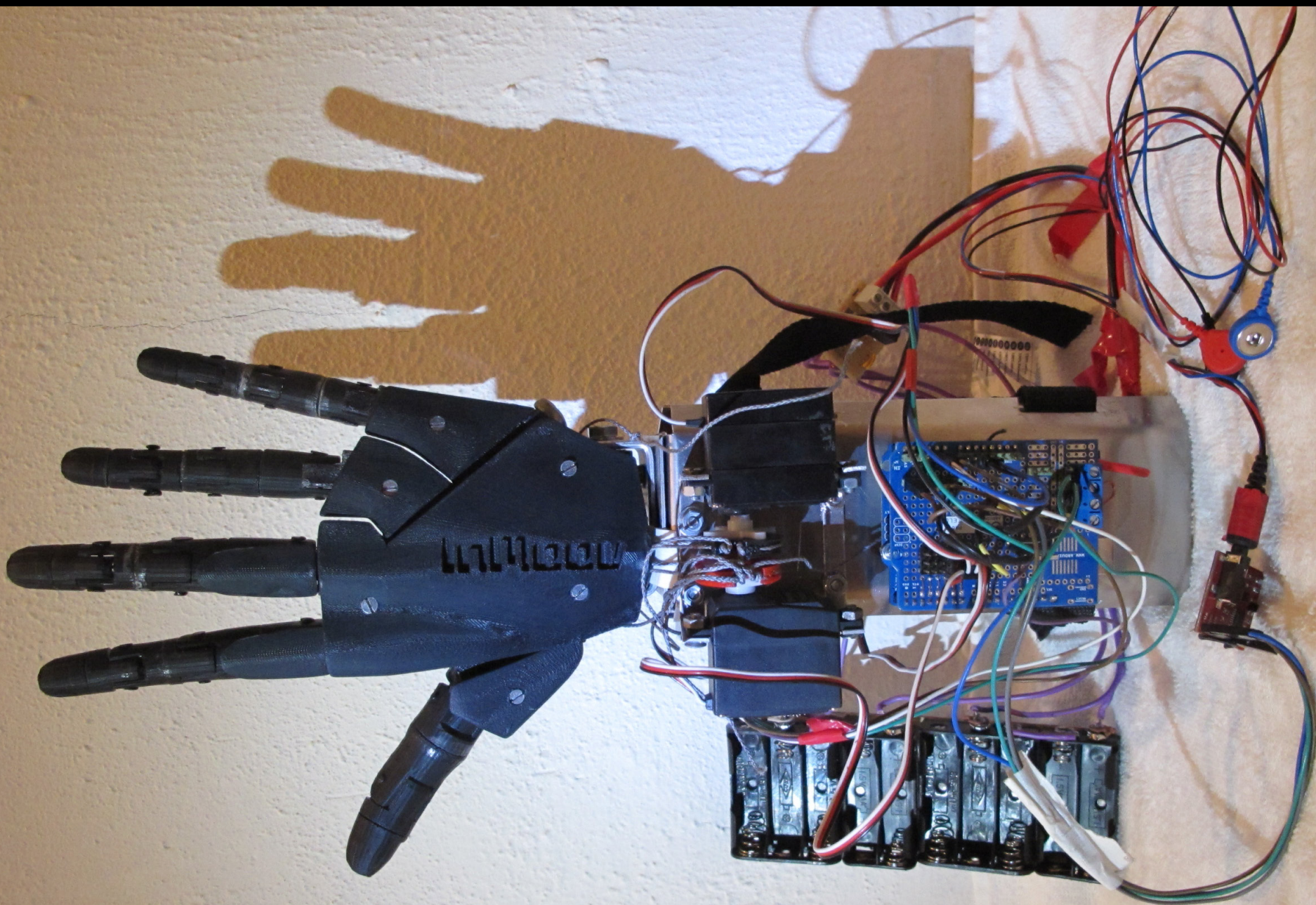












PROCESSING



# I Protagonisti

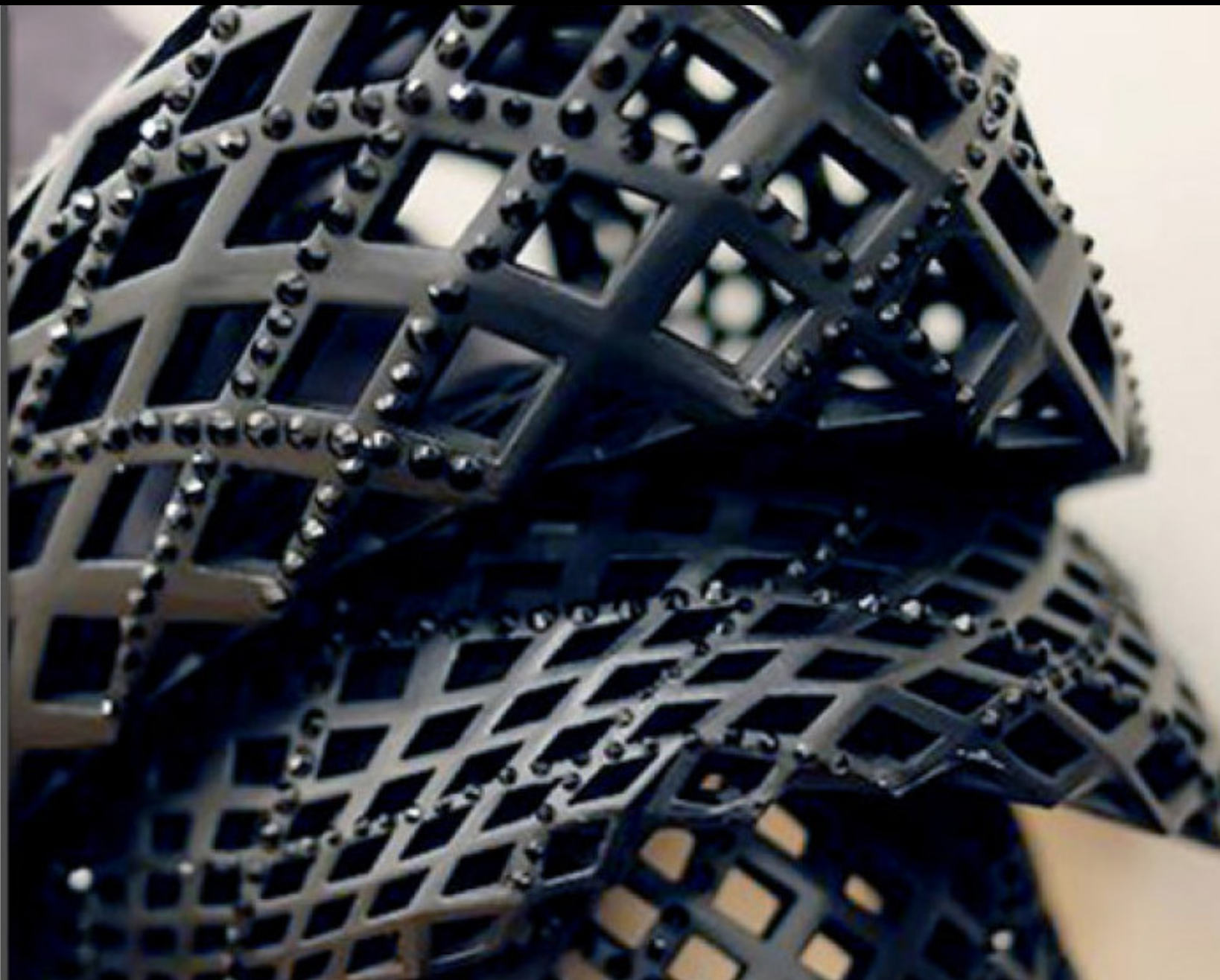
# AMLETO PICERNO CERASO



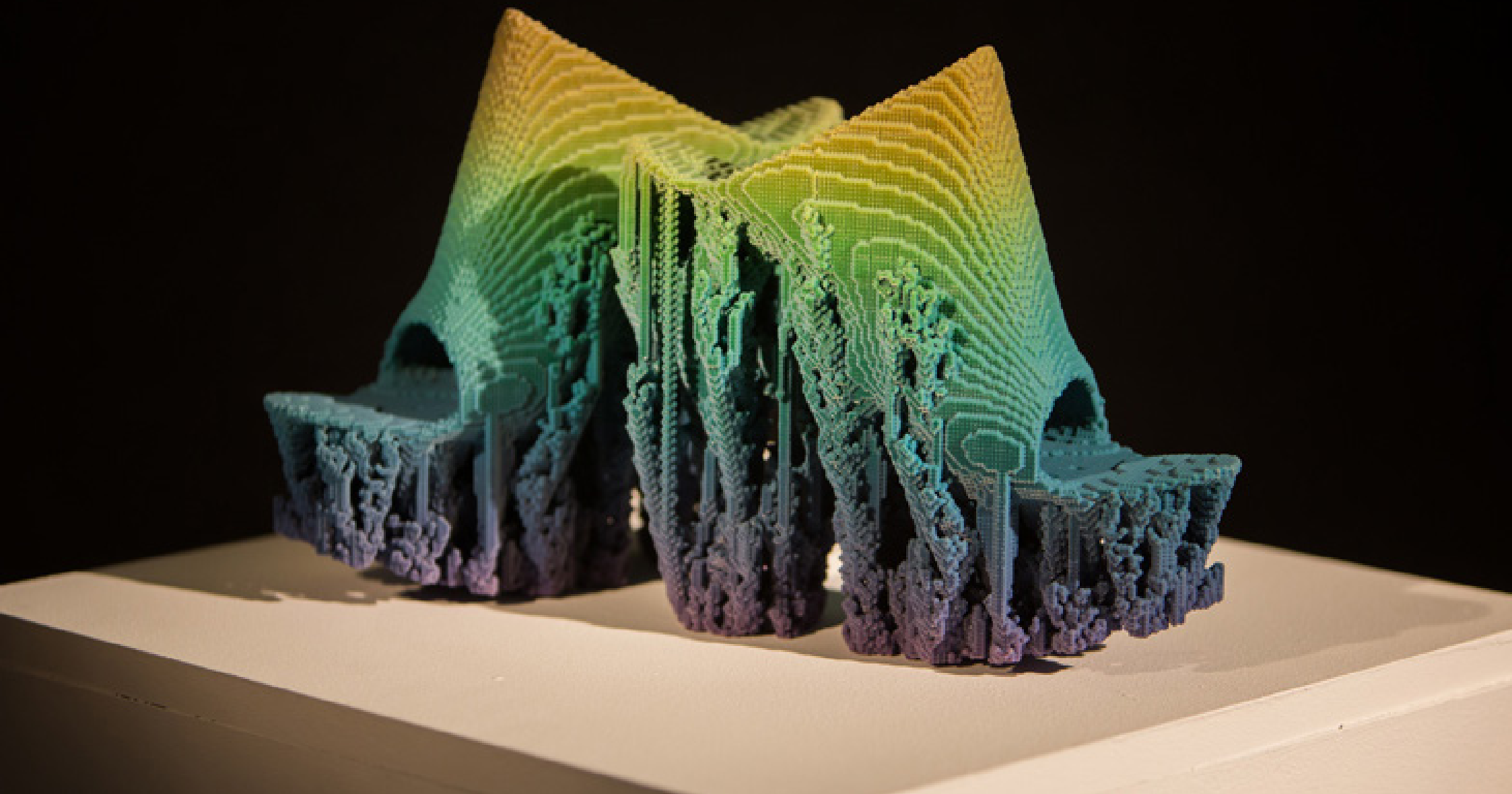


# FRANCIS - BITONTI



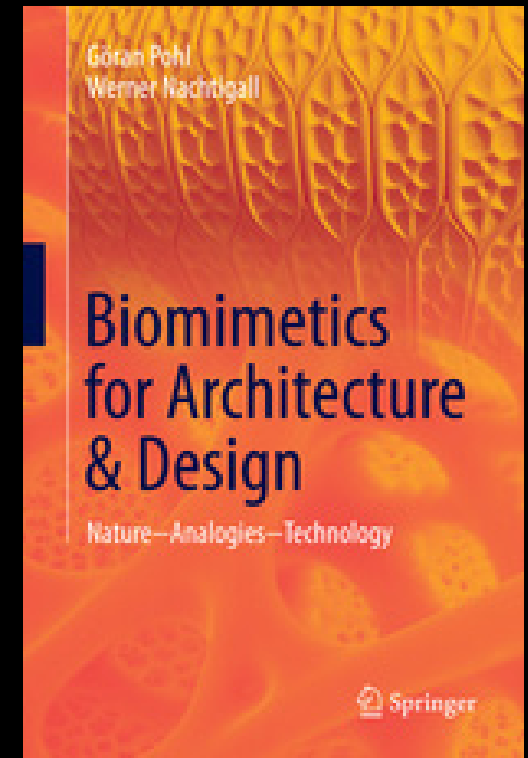
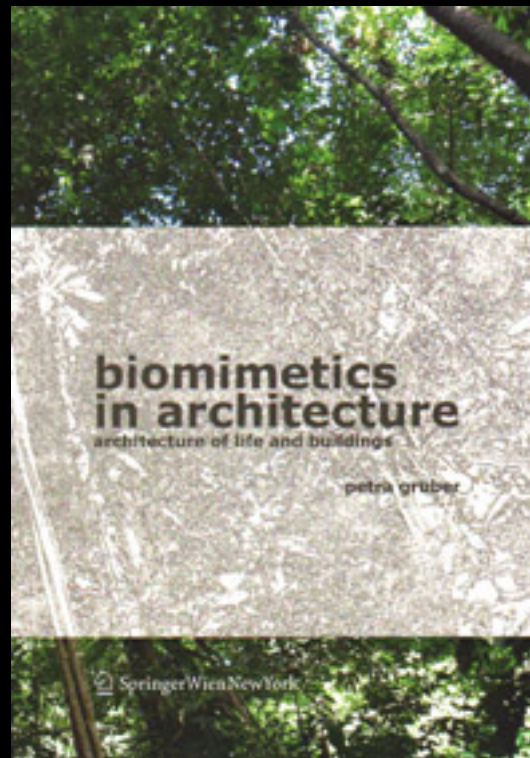


Dita von Teese dress





P E T R A -  
G R U B E R





A N O U K -  
W I P P R E C H T



## Spider Dress



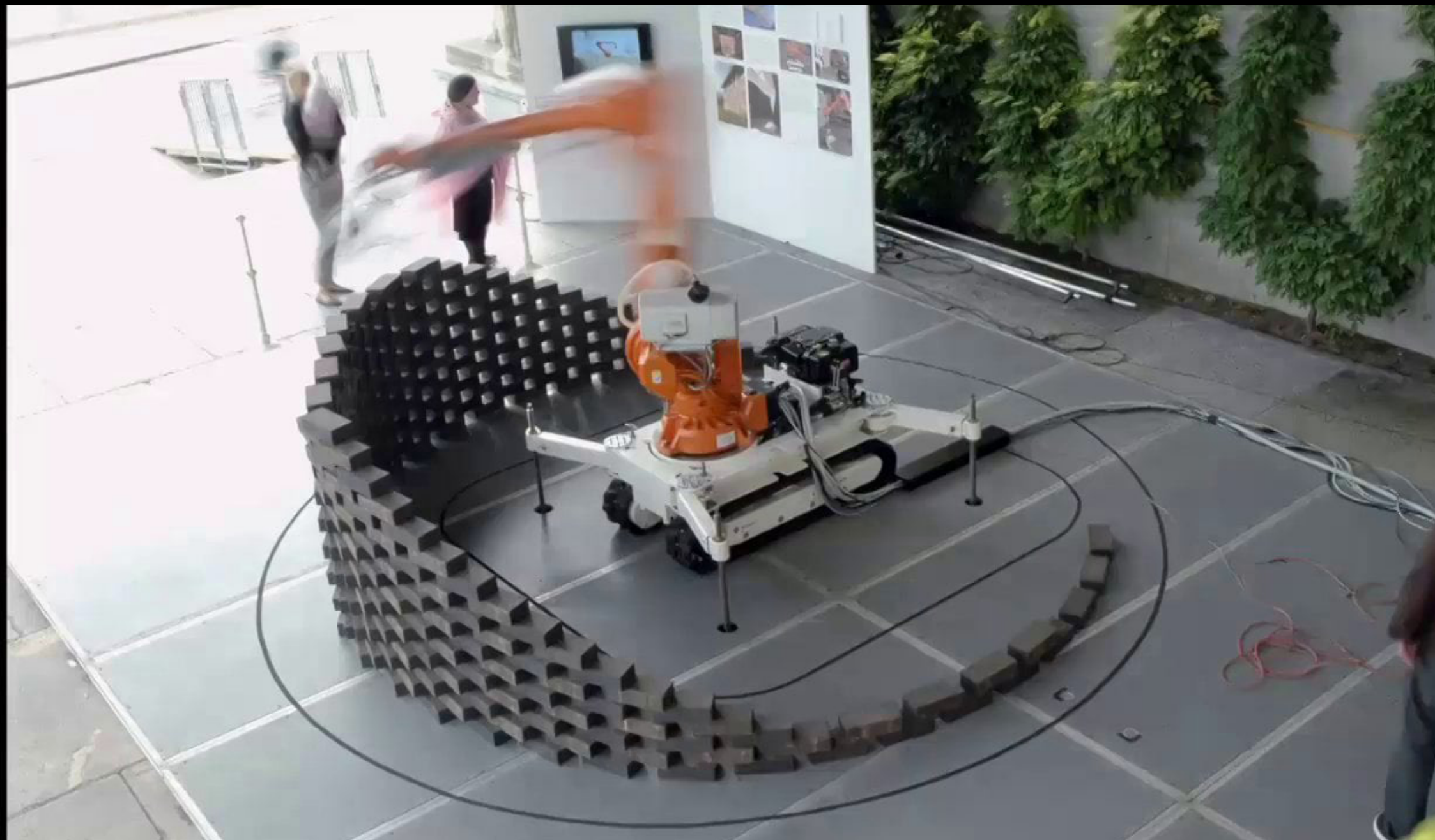




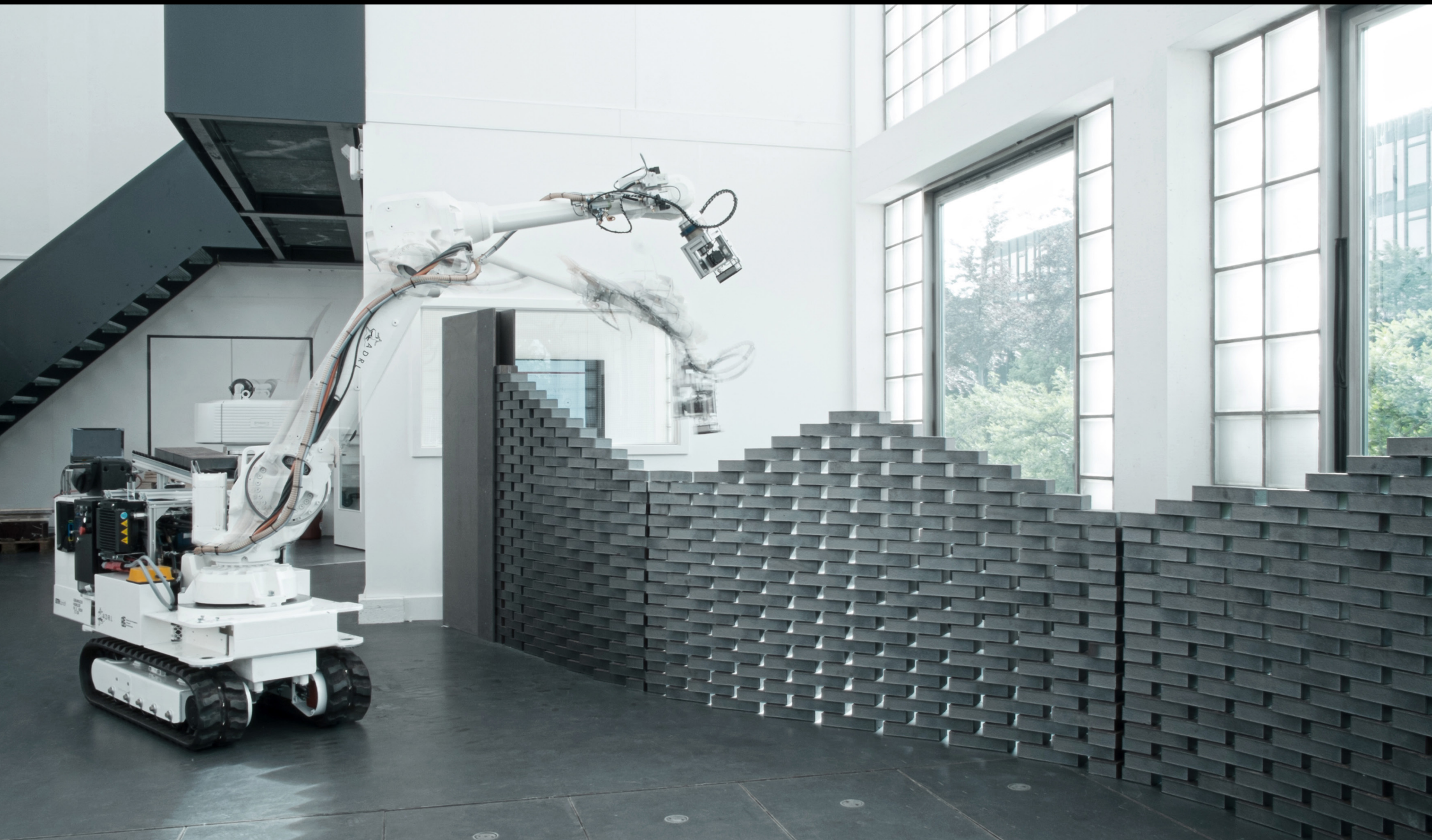
## Cocktail Dress



# GRAMAZIO & KOLLER







# PIERANDREA ANGIUS

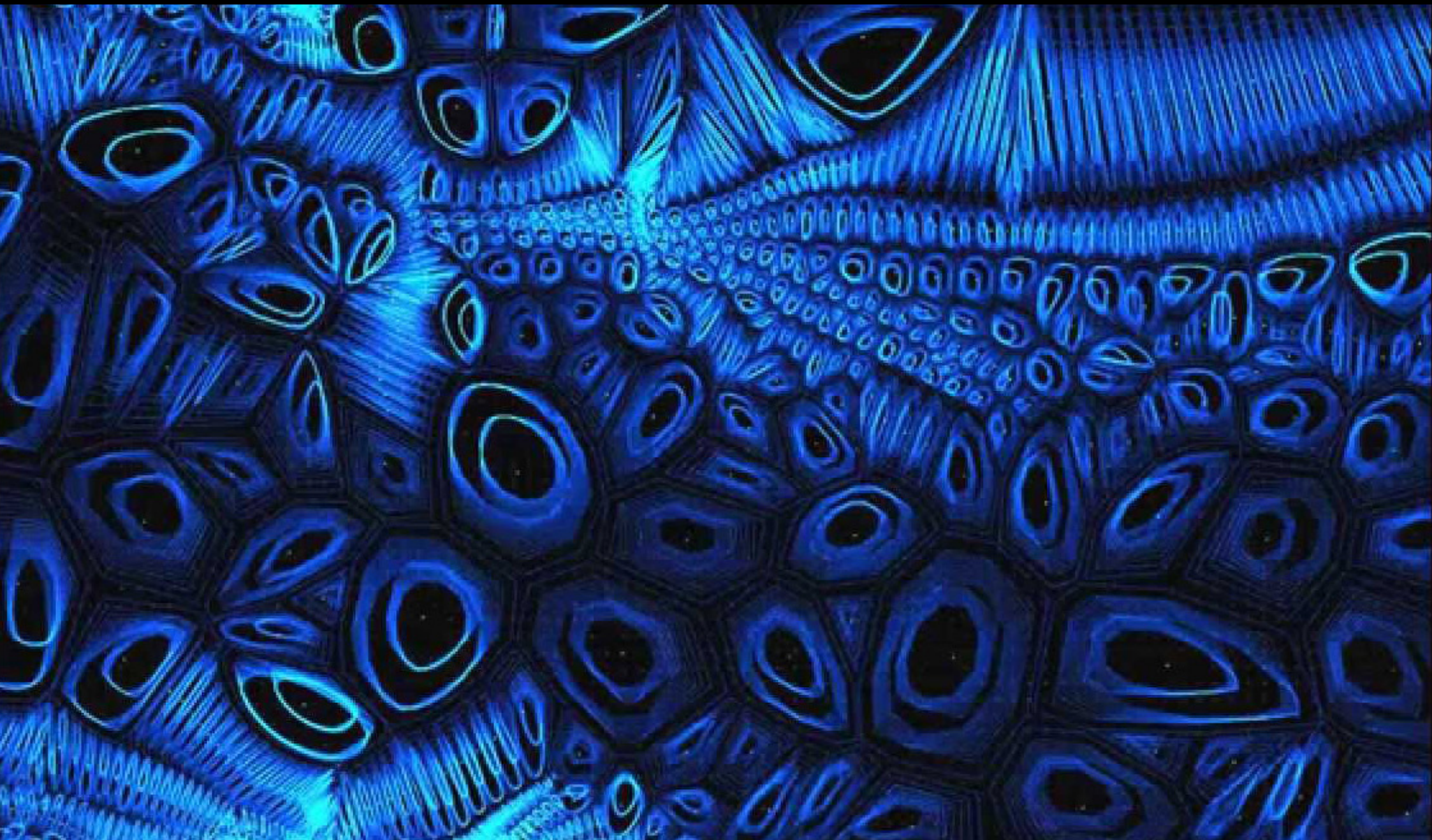








D A N I E L  
B O L O J A N



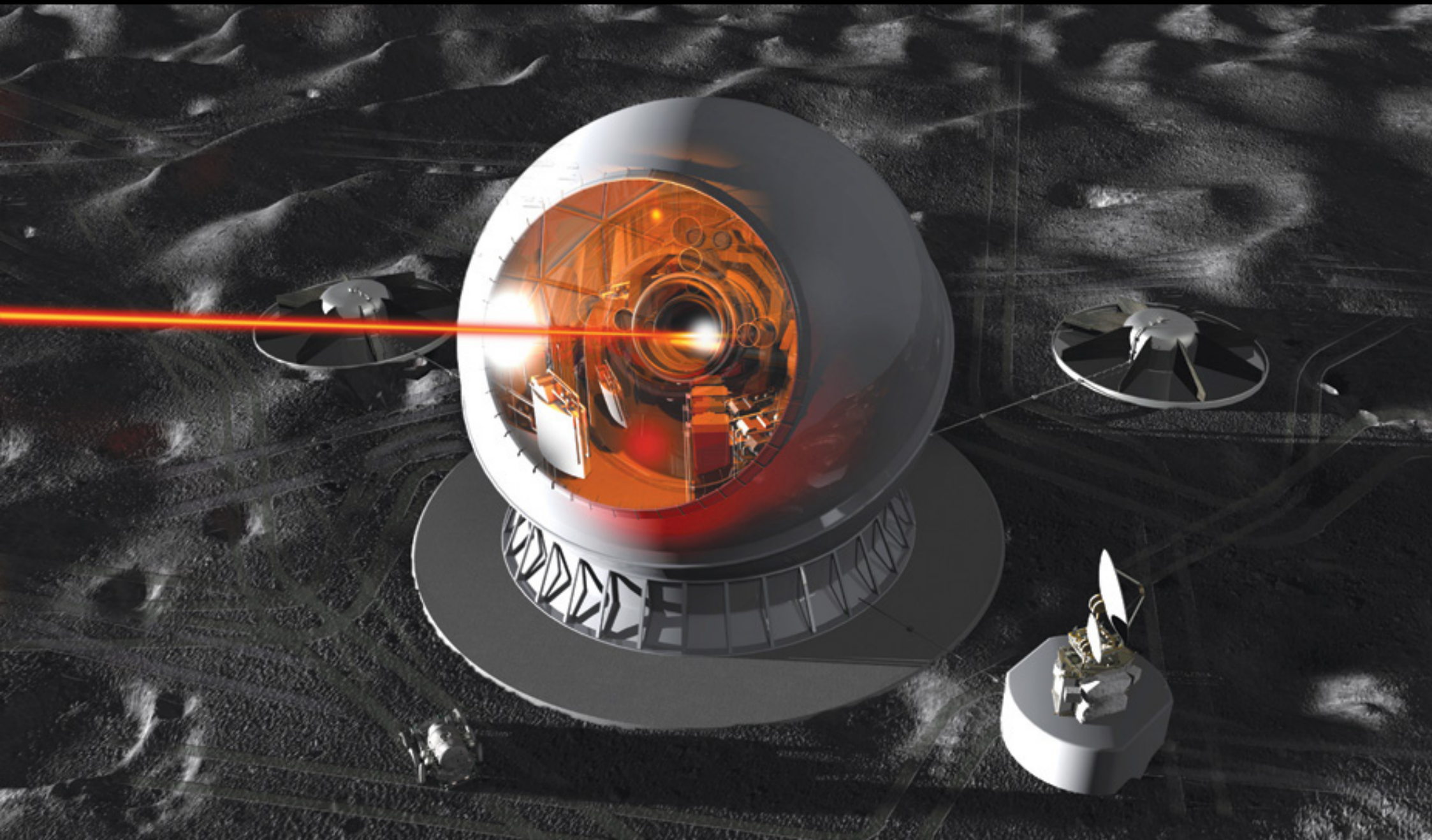
# A X E L K O R N E R





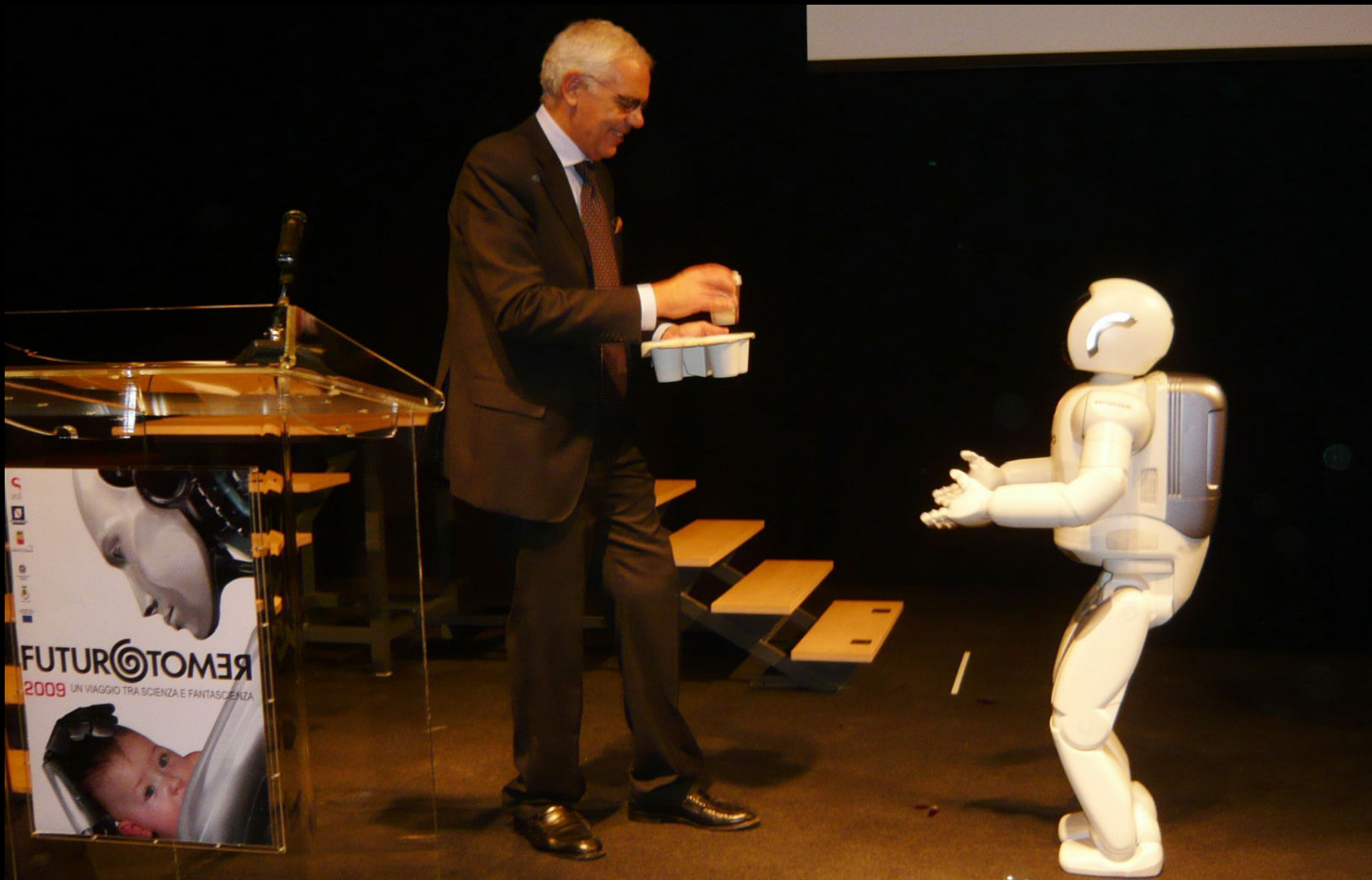
# M A D U THANGAVELU







# B R U N O S I C I L I A N O





J O H A N N E S  
B R A U M A N N





# IL MASTER

1680 ore di didattica  
960 ore di laboratorio  
720 ore didattica frontale  
8 ore al giorno  
5 giorni alla settimana

| Course Type         | Macroarea                     | Subject                                                | Dates      |            | Days    |     |       | Faculty                              |
|---------------------|-------------------------------|--------------------------------------------------------|------------|------------|---------|-----|-------|--------------------------------------|
|                     |                               |                                                        | Start      | End        | Lessons | Lab | Total |                                      |
| Seminar             | Theory                        | Intro                                                  | 02/02/2017 | 02/01/2017 | 1       | 0   | 1     | Amleto PICERNO                       |
| Lesson and debate   |                               | Complex Systems                                        | 03/02/2017 | 06/02/2017 | 2       | 0   | 2     | Amleto PICERNO                       |
|                     |                               | Biomimicry                                             | 07/02/2017 | 10/01/2017 | 3       | 1   | 4     | Petra GRUBER                         |
| Total               |                               |                                                        |            |            | 6       | 1   | 7     |                                      |
| Lesson and test     | Digital Tools                 | Rhinoceros 3D                                          | 13/02/2017 | 15/02/2017 | 2       | 1   | 3     | Sara NAPPA                           |
|                     |                               | Blender                                                | 16/02/2017 | 22/02/2017 | 4       | 1   | 5     | Alessandro ZOMPARELLI                |
|                     |                               | Maya                                                   | 23/02/2017 | 01/03/2017 | 4       | 1   | 5     | Lucia LUNGHI, Michela TONELLI        |
|                     |                               | Processing                                             | 02/03/2017 | 07/03/2017 | 3       | 1   | 4     | Michela MUSTO                        |
|                     |                               | Graphic Design                                         | 08/03/2017 | 10/03/2017 | 2       | 1   | 3     | Marialusia FIRPO, Gabriella GRIZZUTI |
| Total               |                               |                                                        |            |            | 15      | 5   | 20    |                                      |
| Learning by doing   | Digital Fabrication           | 3D Printer: FDM, 3D Scanner, SLS                       | 13/03/2017 | 14/03/2017 | 1       | 1   | 2     | Gianmarco PADUANO, Bruno LENZI       |
|                     |                               | Arduino                                                | 15/03/2017 | 20/03/2017 | 2       | 2   | 4     | Gianmarco PADUANO                    |
|                     |                               | Milling Machine                                        | 21/03/2017 | 22/03/2017 | 1       | 1   | 2     | Carmine SCALA                        |
|                     |                               | Laser Cutter                                           | 23/03/2017 | 24/03/2017 | 1       | 1   | 2     | Carmine SCALA                        |
| Total               |                               |                                                        |            |            | 5       | 5   | 10    |                                      |
| Lesson and test     | Advanced Computational Design | Grasshopper                                            | 27/03/2017 | 13/04/2017 | 10      | 4   | 14    | Amleto PICERNO, Pierandrea ANGIUS    |
|                     |                               | Mechatronics                                           | 18/04/2017 | 19/04/2017 | 2       | 0   | 2     | Bruno SICILIANO                      |
|                     |                               | Antropomorphic Robotic Arms                            | 20/04/2017 | 28/04/2017 | 2       | 3   | 5     | Carmine SCALA                        |
|                     |                               | IOE                                                    | 02/05/2017 | 05/05/2017 | 2       | 2   | 4     | Gianmarco PADUANO                    |
|                     |                               | OOP                                                    | 08/05/2017 | 19/05/2017 | 5       | 5   | 10    | Daniel BOLOJAN                       |
|                     |                               | Material Systems                                       | 22/05/2017 | 01/06/2017 | 5       | 4   | 9     | Stefan RUTZINGER                     |
|                     |                               | Total                                                  |            |            |         |     | 26    | 18                                   |
| Lesson and workshop | Focus Design                  | Advanced Manufacturing for non-terrestrial environment | 05/06/2017 | 16/06/2017 | 5       | 5   | 10    | Madhu THANGAVELU                     |
|                     |                               | Advanced Fashion and Design                            | 19/06/2017 | 30/06/2017 | 5       | 5   | 10    | Francis BITONTI                      |
|                     |                               | Advanced Fabrication for Construction                  | 03/07/2017 | 14/07/2017 | 5       | 5   | 10    | Axel KOERNER                         |
|                     |                               | Digital Fabrication for Biomedical Technologies        | 17/07/2017 | 28/07/2017 | 5       | 5   | 10    | Minas LIAROKAPIS                     |
|                     |                               | Museum Exhibit Design                                  | 07/08/2017 | 11/08/2017 | 5       | 0   | 5     | PROTON Team Member                   |
| Total               |                               |                                                        |            |            | 25      | 20  | 45    |                                      |
| Paper               | Abstract presentation         | Abstract Presentation                                  | 28/08/2017 | 01/09/2017 | 5       | 0   | 5     | FabLab Team                          |
| Total               |                               |                                                        |            |            | 5       | 0   | 5     |                                      |
| Lesson              | Business Development          | Activities                                             | 11/09/2017 | 15/09/2017 | 5       | 0   | 5     | Giovanni DE CARO                     |
| Total               |                               |                                                        |            |            | 5       | 0   | 5     |                                      |
| Building Prototypes | Applied Research              | Prototyping Laboratory Term 1                          | 05/09/2017 | 03/10/2017 | 0       | 21  | 21    | FabLab Team                          |
|                     |                               | Project Presentation Term 1                            | 04/10/2017 | 20/10/2017 | 0       | 13  | 13    | FabLab Team                          |
|                     |                               | Prototyping Laboratory Term 2                          | 23/10/2017 | 14/12/2017 | 0       | 36  | 36    | FabLab Team                          |
|                     |                               | Final Presentation                                     | 15/12/2017 | 15/12/2017 | 0       | 1   | 1     | FabLab Team                          |
| Total               |                               |                                                        |            |            | 0       | 71  | 71    |                                      |
|                     | Insight                       | Robotic Fabrication                                    |            |            | 0       | 0   | L     | Fabio GRAMAZIO                       |
|                     |                               | Fashion for Interaction                                | 01/08/2017 | 03/08/2017 | 3       | 0   | 3     | Anouk WIPPRECHT                      |
|                     |                               | Robots in Architecture                                 |            |            | 0       | 0   | L     | Johannes BRAUMANN                    |
| Total               |                               |                                                        |            |            | 3       | 0   | 3     |                                      |



# COME PARTECIPARE?



Scuola Politecnica e delle  
Scienze di Base

Università degli Studi di Napoli  
Federico II



Scuola Politecnica e delle  
Scienze di Base

Seconda Università degli  
Studi di Napoli



Dipartimento di Ingegneria  
Industriale

Università degli Studi di Napoli  
Federico II



Istituto per i Polimeri Composti o Biomateriali



Istituto per l'Ambiente  
Marino Costiero



Istituto Rilevamento  
Elettromagnetico Ambientale



Consorzio delle Tecnologie



Dipartimento di Ingegneria  
Elettrica e delle Tecnologie dell'Informazione

Università degli Studi di Napoli  
Federico II



CABHC@CRIB Napoli  
Center for Advanced  
Biomaterials for Healthcare



SCADENZA  
13 GENNAIO!



# GRAZIE!