

Thursday

9:15 - 10:45

Session 1 | AI, Deep Learning, Data

Chair: [Daniel Kohler](#)

Application of an Automatic Shape Clustering Method

[Shermeen Youssif](#), [Wei Yan](#)

A Plane of Thrones

[Ishaan Varshney](#), [Ben Doherty](#)

User Directed Meta Parametric Design for Option Exploration

[Nazim Ibrahim](#), [Sam Conrad Joyce](#)

Robot Ex Machina

[Jose Luis Garcia del Castillo y López](#)

Towards an Autonomous Architecture

[Tyson Hosmer](#), [Panagiotis Tigas](#)

11:00 - 12:30

Session 2 | Patterns

Chair: [Aleksandra Jaeschke](#)

Pattern Mapping

[Eliza Pertigkiozoglou](#)

Three-dimensional Translation of Japanese Katagami Patterns

[Ghail Bouayad](#)

Waste Ornament

[Kristen Forward](#), [Joshua Taron](#)

Bespoke Cast Facade

[Mania Aghaei Meibodi](#), [Mairirena Kladeftira](#), [Thodoris Kyttas](#), [Benjamin Dillenburger](#)

Tensile Configurations

[Kenneth Tracy](#), [Sachin Sean Gupta](#), [Loo Yi Ning Stella](#), [So Jing Wen](#), [Abhipsa Pal](#)

2:30 - 4:00

Session 3 | Pavilions

Chair: [Alvin Huang](#)

Buga Fibre Pavilion

[Niccolò Dambrosio](#), [Christoph Zechmeister](#), [Serban Bodea](#), [Valentin Koslowski](#), [Marta Gil-Pérez](#), [Bas Rongen](#), [Jan Knippers](#), [Achim Menges](#)

Bio-Inspired Lamellar Structures

[Yasaman Yavaribajestani](#), [Simon Schleicher](#)

Robotic Constraints Informed Design Process

[Pradeep Devedass](#), [Tobias Heimig](#), [Sven Stumm](#), [Ethan Kerber](#), [Sigrid Brell-Cokcan](#)

Simplifying Catenary Wood Structures

[Nichol Long Hin Wong](#), [Kristo Crolla](#)

Experimental Biocomposite Pavilion

[Hanaa Dahnj](#), [Piotr Baszyński](#), [Jan Petř](#)

2:30 - 4:00

Session 4 | Formworks

Chair: [Tsz Yan Ng](#)

Unprintable Forms

[Yota Akiendjou](#), [Zeeshan Yunus Ahmed](#), [Freek Bos](#), [Marjan Colletti](#)

Dissolvable 3D Printed Formwork

[Shelby Elizabeth Doyle](#), [Erin Linsay Hunt](#)

Additive Casting of Mass-Customizable Bricks

[Lavender Tessmer](#), [Yijiang Huang](#), [Caitlin Mueller](#)

FLEX-NODE

[Ali Baghi](#), [Aryani Baghi](#), [Saleh Kalantari](#)

Dissolvable 3DP Formwork

[Matthias Leschok](#), [Benjamin Dillenburger](#)

4:15 - 5:30

Project Session 1

Chair: [Behnaz Farahi](#)

4:15 - 5:30

Project Session 2

Chair: [Adam Marcus](#)

Friday

9:00 - 10:30

Session 5 | Material Research

Chair: [Dana Cukpova](#)

POLYBRICK 2.0

[Eda Begum Bırol](#), [Yao Lu](#), [Ege Sekkin](#), [Colby Johnson](#), [David Moy](#), [Yaseen Islam](#), [Jenny Sabin](#)

INFRASONIC

[Neil Grewal](#), [Miguel Escallon](#), [Abhinav Chaudhary](#), [Alina Hramyka](#)

PolyBrick H2.0

[Viola Zhang](#), [William Qian](#), [Jenny Sabin](#)

Informing Grounds

[Karen Lee Bar-Sinai](#), [Tom Shaked](#), [Aaron Sprecher](#)

Digital Fabrication of Standardless Materials

[Katie MacDonald](#), [Kyle Schumann](#), [Jonas Hauptman](#)

10:45 - 12:15

Session 6 | Theory

Chair: [Gabriel Esquivel](#)

Digital Suprematism

[Galo Canizares](#)

Surrealist Aesthetics in Second-Order Cybernetic Architecture

[Jordi Vivaldi](#)

Bursting the Bubble

[Maxime Leblanc](#), [Theodora Vardouli](#)

Do Robots Dream of Digital Sheep?

[Neil Leach](#)

The Oxymoron of 'Jectivity'

[Gonzalo Vaillo](#)

10:45 - 12:15

Session 7 | Environments

Chair: [Ersela Kripa](#)

Thermochromic Articulations

[Andreas Kosmer](#)

Thermal Reality Capture

[Dorit Aviv](#), [Nicholas Houchois](#), [Forrest Meggers](#)

Sound Space

[Luke Gehron](#), [Adam Chernick](#), [Christopher Morse](#), [Sabrina Naumovskii](#), [Zeyu Ren](#)

Robotically Augmented Imaging (RAI Alpha)

[Ebrahim Poustinchi](#)

Cyber-physical UAV Navigation and Operation

[Aldo Sollazzo](#), [Keith Kaseman](#), [Soroush Garivani](#), [Andrzej Foltman](#), [Jean-Nicolas Alois Dackiw](#)

2:30 - 4:00

Session 8 | GAN

Chair: [Ian Bogost](#)

Hybrid Elevations using GAN Networks

[Ali Mohammad](#), [Christopher Beorkrem](#), [Jefferson Ellinger](#)

Interdisciplinary AI

[Güvenç Özel](#), [Benjamin Ernmoser](#)

GAN Lock

[Kyle Steinfeld](#)

AN ANONYMOUS COMPOSITION

[Henan Liu](#), [Longtai Liao](#), [Akshay Srivastava](#)

Imaginary Plans

[Matias del Campo](#), [Sandra Manning](#), [Alexandra Carlson](#)

2:30 - 4:00

Session 9 | AR + Fabrication

Chair: [Güvenç Özel](#)

Interactive Facade Detail Design Reviews with the VR Scope Box

[Christopher Morse](#), [Foteros Soufos](#)

Augmented Construction

[Garvin Goepel](#)

[BENT]

[Geylilm Jahn](#), [Andrew John Wit](#), [James Pazzi](#)

Experimental Applications of Virtual Reality in Design Education

[Amber Bartosh](#), [Phillip Anzalone](#)

Augmented Craftsmanship

[Soomeen Hahm](#)

4:15 - 5:45

Session 10 | Robotic Timber

Chair: [Uli Dangel](#)

Stressed Skin Wood Surface Structures

[AnnaLisa Meyboom](#), [David Correa](#), [Oliver David Krieg](#)

Autonomous Architectural Operations

[Emmanuel Vercautse](#)

The Buga Wood Pavilion

[Martin Alvarez](#), [Hans Jakob Wagner](#), [Abel Groenewolt](#), [Oliver David Krieg](#), [Achim Menges](#), [Daniel Sonntag](#), [Simon Becherl](#), [Lotte Aldinger](#), [Jan Knippers](#)

Exploring Natural Wood

[Niels Martin Larsen](#), [Anders Kruse Aagaard](#)

Distributed Robotic Timber Construction

[Samuel Leder](#), [Ramon Weber](#), [Dylan Wood](#), [Oliver Bucklin](#), [Achim Menges](#)

4:15 - 5:45

Session 11 | Parts

Chair: [Matias del Campo](#)

Blockerties

[Anna Galika](#), [Qiuru Pu](#), [Junyi Bai](#), [Daniel Kohler](#)

Toward Discrete Architecture: Automation takes Command

[Giles Retajp](#)

Mathematical Modelling of Cities as Complex Systems

[Ali Farzaneh](#), [Michael Weinstock](#)

Design for Mass-Customization

[Hus Chai](#), [Dario Marino](#), [ChunPong So](#), [Philip F. Yuan](#)

Discrete vs. Discretized Growth

[Christoph Klemm](#), [Igor Panic](#), [Andrei Gheorghe](#), [Adam Sebestyen](#)

Saturday

9:00 - 10:30

Session 12 | Alternative Printing + Casting

Chair: [Virginia San Fratello](#)

Janus Printing

[Zach Seibold](#), [Saurabh Mhatre](#), [Suleiman Alhadidi](#), [Jose Luis Garcia del Castillo y López](#), [Martin Bechtold](#)

Vertical Modulations

[Ana Anton](#), [Angela Yoo](#), [Patrick Bedarf](#), [Lex Reiter](#), [Timothy Wangler](#), [Benjamin Dillenburger](#)

IceFormwork for Cast HPFRCC Elements

[Vasily Shtnikov](#), [Peter Eigenraam](#), [Panagiotis Papanastasis](#), [Stephan Wassermann-Fry](#)

Soil 3D Printing

[Daniela Mitterberger](#), [Tiziano Derme](#)

Lithophanic Dunes: The Dunejars

[Rhett Russo](#)

10:45 - 12:15

Session 13 | Responsive Structures

Chair: [Jasno Kelly Johnson](#)

Expanding the Systemic Agency of a Material System

[Sean Ahlquist](#)

Compliant Laminar Assemblies

[Pamela Dychengboeng Chua](#), [Lee Fu Hui](#)

IRIDESCENCE: Bio-Inspired Emotive Matter

[Behnaz Farahi](#)

Alive

[Danil Koshelyuk](#), [Ardeshir Talaei](#), [Soroush Garivani](#), [Areti Markopoulou](#), [Angelos Chronis](#), [David Andres Leon](#), [Raimund Krenmüller](#)

Self-Choreographing Network

[Mathias Maierhofer](#), [Valentina Soana](#), [Maria Yablonina](#), [Seichi Suzuki](#), [Erazo](#), [Axel Körner](#), [Jan Knippers](#), [Achim Menges](#)

2:30 - 3:00

Special Paper Session | Autodesk Emergnig Research Award

Chair: [Kathy Veilkov](#)

[Eliena Baseta](#)

[Bastian Beyer](#), [Daniel Suarez](#)