

# GCD 23

**SYMPOSIUM ON GEOMETRY AND COMPUTATIONAL DESIGN**

**NOV 3 | 2023 | 9:00 | KUPPELSAAL | KARLSPLATZ 13 | TU WIEN**

The members of the Center for Geometry and Computational Design cordially invite faculty, students, company representatives and the public to the 8<sup>th</sup> Symposium on Geometry and Computational Design at TU Wien on November 3<sup>rd</sup>, 2023.

Leading researchers will give lectures on recent developments in geometry, computer graphics, computational design, and civil and architectural engineering. In addition, selected and ongoing research projects within the center and the FWF Special Research Programme Advanced Computational Design will be presented in short talks, on posters, and in an exhibition.

The symposium will be free of charge for all attendees. Registration, via email to [gcd-registration@geometrie.tuwien.ac.at](mailto:gcd-registration@geometrie.tuwien.ac.at), is open until October 30<sup>th</sup>.

We would like to thank our partner, the AdvanceAEC Network.

Please forward this announcement to people who may be interested in this event.

## 9<sup>00</sup> REGISTRATION

## 9<sup>20</sup> OPENING

GERTI KAPPEL, Dean of the Faculty of Informatics at TU Wien and  
MICHAEL WIMMER, Director of the Center for Geometry and Computational Design,  
Coordinator of the Special Research Programme Advanced Computational Design

## 9<sup>30</sup> SIMON GUEST, University of Cambridge, UK

Modelling the Geometry of Origami

// Coffee break + SFB ACD exhibition

## 10<sup>45</sup> MICHELA SPAGNUOLO, IMATI Genua, Italy

The Role of Geometry in Intelligent Cities of Tomorrow

## 11<sup>30</sup> BENJAMIN DILLENBURGER, ETH Zürich, Switzerland

Form and Performance in a Digital Building Culture

// Lunch break + SFB ACD exhibition

## 14<sup>00</sup> EIKE SCHLING, University of Hong Kong

Geometry Design Structure

## 14<sup>45</sup> MICHAEL WIMMER, TU Wien

The Special Research Programme Advanced Computational Design – Introduction

## JOHANNES SCHLUSCHE, Universität Innsbruck, Austria

Pointcloud Tectonics

## CHRISTIAN FREUDE, TU Wien

Thermal Simulation for Interactive Conceptual Design

## SOROOSH MORTEZAPOOR, TU Wien

A Large-Scale Haptic VR System Using a Collaborative Mobile Robot

## VALENTIN SENK, TU Wien

Understanding Bio-Composite Mechanics to Enable Material-Informed Design

// Coffee break + SFB ACD exhibition

## 16<sup>30</sup> DANIELA MITTERBERGER, ETH Zürich, Switzerland

Augmented Human and Extended Machine: Adaptive digital fabrication and human-machine collaboration for architecture

## 17<sup>15</sup> KAI STREHLKE, Blumer Lehmann, Switzerland

Free Form Timber Architecture

// SFB ACD exhibition until 18<sup>30</sup>

