



WORKSHOP FUNDED BY
THE GERMAN RESEARCH FOUNDATION (DFG)
ORGANIZED BY NATHALIE BREDELLA
(BERLIN UNIVERSITY OF THE ARTS)
AND CAROLIN HÖFLER
(COLOGNE UNIVERSITY OF APPLIED SCIENCES)

THE FABRIC OF
ARCHITECTURE
DIGITAL STRUCTURES,
OPERATIONS,
AND INSTITUTIONS

JUNE 25, 2015

02:00 pm **Introduction:** Nathalie Bredella and Carolin Höfler
Welcome: Norbert Palz, Vice Dean,
The College of Architecture, Media and Design,
Berlin University of the Arts

SESSION I CHAIR: MICHAEL DÜRFELD

02:30 pm T'ai Smith, University of British Columbia, Vancouver
Synthetics: Frock Coats as Diagrams

03:15 pm Mette Ramsgaard Thomsen, The Royal Danish Academy
of Fine Arts, Copenhagen
**The Tent and the Tapestry: Textiles as a Model and
Material for Architectural Poetics**

04:00 pm Coffee Break

04:30 pm Robert Aish, The Bartlett School of Architecture,
University College London
**The Influence of Computational Representation on
Architecture**

05:15 pm Marie-Ange Brayer, Centre Pompidou, Paris
Curating Computational Architecture and Design

JUNE 26, 2015

SESSION II CHAIR: KASSANDRA NAKAS

10:00 am Susanne Hauser, Berlin University of the Arts
The Process of Designing and Its Ends

10:45 am Sean Keller, Illinois Institute of Technology, Chicago
**Automatisms of the Automatic:
Architecture Through Computation**

11:30 am Coffee Break

12:00 am Georg Trogemann, lab3, Academy of Media Arts, Cologne
Poesis - The Fabric of Making

01:00 pm Lunch

SESSION III CHAIR: MARGARETE PRATSCHKE

02:00 pm Daniel Gethmann, Graz University of Technology
**Integrated Planning and Design of Urban
Agglomeration: Bernhard Hafner's Simulation of
Alternative Urban Prototypes**

02:45 pm Reinhold Martin, Columbia University, New York
Drawn in Sand: Numbers and Things

03:30 pm Wolfgang Schäffner, Humboldt-Universität zu Berlin
**Active Matter: 3D-Code in Weaving, Folding,
and Building**

04:15 pm Closing Remarks

ABSTRACT

Every architectural design emerges from a process. The different tools and media constitutive of these processes in turn foster approaches to architecture, as well as the creation of new categories of knowledge. With the progressive development of computer-based design techniques, the contemplation of the procedural aspects of architecture becomes increasingly significant for the production and reception of architecture. It is from this perspective that the workshop sets out to examine the specific roles that processes and practices play in computer-based design by seeking to illuminate those techno-cultural contexts and historical and intellectual bonds that unite them. Which traditions and strategies, and what historical correlations among architecture, culture, and technology, have motivated and shaped the development of computer-based design processes?

The image of a fabric serves as an application and expression of the singular and inextricable entanglement of architecture, culture and technology in computer-based design. The interweaving of a textile creates a transitory co-planarity between information and material.

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It emphasizes the active process of shaping as "structured form," (Gebildetes) by which elements become enmeshed or knotted with each other. Considering architecture then as an analog to a fabric highlights how those numerous interactions with media and tools leave behind traces in material form. Likewise, processes of the imagination and inspiration effectively unfold in the design. Hence, the increasing automation of operations through digital media also brings to the fore the nature of the interaction between standardized and intuitive design processes. How might the relationship between a rule-governed design process and the transgression of a predefined operational framework - a relationship aiming to produce new artifacts and knowledge - be determined? Furthermore, in what way does the interconnection of media, tools and design shape built architecture and its ensuing structures, control-processes and procedures?

With an eye toward these issues, the workshop discusses forms of knowledge production in architecture, including its technological, political, and economic requirements as well as the possibilities for an investigation into digital design cultures in architecture that transcend disciplinary boundaries.

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ARCHITECTURE

Digital Structures,
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LOCATION

Universität der Künste
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Hardenbergstr. 33
10623 Berlin

FURTHER INFORMATION

www.udk-berlin.de/igtg

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KISD

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