RECALIBRATION: on imprecision and infidelity
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Conference hosted by the Universidad Iberoamericana, Mexico City

PAPER PROCEEDINGS

Proceedings Catalog of the 38th Annual Conference of the Association for Computer Aided Design in Architecture

UNIVERSIDAD IBEROAMERICANA, MEXICO CITY

Editors
Phillip Anzalone, Marcella Del Signore + Andrew John Wit

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CHAIRS
Pablo Kobayashi holds a Master in Emergent Technologies & Design from the Architectural Association School of Architecture and a B.S.I. from the Universidad Intercontinental. He is the director of the Unidad de Protocolos (Protocols Unit), an advanced design practice and consultancy office based in Mexico City with a development and fabrication subsidiary specialized in bespoke concrete elements production called UP. He has focused his practice and research on the implications of the use of digital technologies in different stages of the design process, from conceptualisation to fabrication, emphasising the analysis of the theoretical and philosophical consequences of this new paradigm and its interrelation with the matter. This has been driven by the constant will to explore and apply the principles of emergence to both the structure of thought, design and research processes. The dynamics of his practice have constantly shifted between an adaptable plug-in office, an external consultancy agency and an experimental art and design studio, enabling collaborations with numerous architects, designers and artists.

Pablo is an Associate Professor of Architecture at the Universidad Iberoamericana where he leads the Exogenous Protocols, Endogenous Properties studio. In 2018 he led the Material Behaviors unit at the AA Visiting School Mexico City. He also teaches at the Architecture and Technology Master Programme at the UNAM, the Advanced Design Master Programme ay the UMICH and has taught at the La Salle Bajio University, and CENTRO.

Brian Slocum holds a Master of Architecture from the Graduate School of Architecture, Planning and Preservation of Columbia University and a Bachelor of Science in Architecture from Georgia Tech. He is currently an Adjunct Professor in the Department of Architecture, Urbanism and Civil Engineering at the Universidad Iberoamericana in Mexico City, where he teaches a design studio entitled Exogenous Protocols//Endogenous Properties (#prex-pren), which focuses on analog material research with thin shell concrete structures and fabric formwork using computational and performative design strategies.

Brian is the co-founder of the design and architecture collaborative Diverse Projects, with offices in the United States and Mexico, which serves as an umbrella for both academic and professional projects in the areas of installation art, infrastructure research, architectural technologies, urban planning and computational design strategies. Slocum was a participant in the group exhibition Landscapes of Quarantine at Storefront for Art and Architecture, where he presented Context/Shift, a prosthetic piece installed on a door panel in the gallery designed by the architect Stephen Holl and the artist Vito Acconci. Additionally, Brian is the recipient of an Individual Research Grant for ad hoc infrastructures from the New York State Council on the Arts. He has also contributed to the journal CLOG as well as to Pamphlet Architecture #23: MOVE Sites of Trauma, by Johanna Saleh Dickson.
Phillip Anzalone is an Associate Professor of architectural technology at the NYC College of Technology, where he teaches courses in design, building envelope, architectural structures and automation in construction. Phillip published close to thirty peer-reviewed and professional articles, lectured at over fifty international venues, served as a jury member in dozens of academic institutions, and holds a patent in space-frame construction processes.

In addition to his teaching and scholarship, Phillip is a Principal of Atelier Architecture 64, a Brooklyn based architecture firm with award-winning projects in North America and Europe. Phillip is a member of the Board of Directors of ACADIA, a long-time member of the AIA, and the Chair of the Professional Practice committee of the New York Center for Architecture.

Prior to his current appointment, Phillip was the Director of the Building Science and Technology Department at the Graduate School of Architecture at Columbia University, where he was also the founding Director of the Laboratory for Applied Building Science.

Phillip holds a Masters of Architecture from Columbia University and B.P.S. Architecture from SUNY Buffalo, with past professional experience as a building envelope consultant for R. A. Heintges & Associates and architectural designer with Greg Lynn Form.
Marcella Del Signore is an architect and the principal of X-Topia, a design-research practice that explores the intersection of architecture and urbanism with digital practices. She is an Associate Professor of Architecture at the New York Institute of Technology, School of Architecture and Design. Her work concentrates on the relationship between architecture and urbanism by leveraging emerging technologies to imagine scenarios for future environments and cities. She has been focusing on inter-scalar design approaches, from small scale interventions, installations and prototypes to the larger urban scale.

Marcella has taught and collaborated with academic institutions in Europe and USA including Tulane University, Barnard College at Columbia University, the Architectural Association, IaaC, University of Waterloo, LSU School of Architecture and University of Trento. She currently serves on the Board of Directors of ACADIA where she is a technical co-chair for the 2018 Conference in Mexico City. She has operated nationally and internationally through an extended network of partners, institutions and sponsors that have supported her work, receiving several awards, grants and recognitions.

Andrew John Wit and is currently an Assistant Professor at Temple University’s Tyler School of Art where he leads research, courses and workshops focused around novel building systems generated through light-weight composites, digital production tools and robotic systems. Additionally, he is a Co-Founder of the interdisciplinary research group wito* "Laboratory for Intelligent Environments"; an editor with Mahesh Daas of the recent book "Towards a Robotic Architecture"; resides on the ACADIA board of directors where he chairs the scientific committee; is a co-editor for a forthcoming issue of the Architectural Science review; and serves on the editorial board for the International Journal of Architectural Computing where he is a co-editor of its forthcoming issue.

Wit’s research and projects have been highly disseminated and recognized: UTenSAils (2007 AIA Best of Practice Award), the Advanced Fabrics Exhibition (2007 IFAI Outstanding Achievement Award), along with the widely-published Underwood Pavilion and woven carbon fiber installation rolyPOLY and carbon fiber kites of cloudMAGNET. Wit’s work has been featured at numerous galleries, international conferences and refereed publications.

Wit holds a master’s degree from MIT, a BS in architecture from the University of Texas in San Antonio.
Jorge Ramirez, through process-oriented artworks, sound, sculpture, actions and curatorial projects, explores emergent phenomena as a window to the uncanny. His work relies on computational logic to investigate perception, augmentation, human experience, consciousness and materiality.

He has been guest artist and lecturer at Polytech Science Museum in Moscow; Royal Institution of Australia; Tsinghua University in Beijing; Institute fuer Musik und Medien, Koln; Universitat der Kunste, Berlin; ZHDK Interaction Design department, Zurich; and CENART, Mexico.

His work has been exhibited in Mexico, China, Japan, Australia, Russia and throughout Europe.

Jorge's work has been featured in national and international media outlets such as Wired, Archdaily, Vice, Global Times (CH), Resident Advisor (JP), Afisha (RUS), Código DF, Expansión, La Jornada, Milenio, among others.

Marcela Delgado holds a Master of Architecture from Harvard's Graduate School of Design and a Bachelor of Arts and Science in Civil Engineering with a concentration in Architectural Design from Stanford University.

Marcela is an Associate Professor in the Department of Architecture at the Universidad Nacional Autónoma de México where she is the Academic Coordinator for computer-aided design courses. She is a thesis advisor and teaches electives in parametric design and digital design processes. Marcela has taught previously at Harvard's Career Discovery Program, Boston Architectural College, Northeastern University, Universidad Iberoamericana and co-taught a travel studio between Sci-Arc and IBERO.

Since arriving to Mexico City in 2013, she maintains her independent architecture practice. Marcela is currently serving as the 2018 ACADIA workshops co-chair.
EXHIBITION

CHAIRS
Irma Soler is a Mexican architect. She graduated from the University of Strathclyde where she received her M. Sc. in Computer Aided Building Design. She pursued her architectural studies in Universidad Iberoamericana, Mexico City.

In 2001 she joined Universidad Iberoamericana as a full time professor at the Architecture Department and in 2008 she assumed the CAD Architecture Coordination and formed with the Industrial Design CAD Coordination the ARQDIS computer workshop where rapid prototyping was implemented.

She is also in charge of the Computer Aided Design subjects where she is introducing 3D modeling, BIM, visualizations, use of drones and 3D printing.

She collaborated on the elaboration of the Mexican BIM Standard in 2016. She is also the Architecture Coordinator in the Academic Group of Inter University Cooperation for Architecture and Engineering, promoted by FUNCO.

Pablo Iriarte holds a B.A. Architecture from the Monterrey Institute of Technology. He is an International Associate of the AIA. Past lecturer at the Queens COC, and digital instructor at Universidad Iberoamericana and Monterrey Institute of Technology.

Based in New York City, he defines his architectural practice through a bottom-up design approach: engaging materials, construction systems, and nonlinear geometries explored through computational processes and physical building experimentation.

He pursued studies in generative design processes with Pablo Kobayashi, theories of materials with Manuel De Landa, spatial experimentation with Michael Hensel, scripted design at the University of Houston, robotic fabrication at the Massachusetts Institute of Technology, and architectural technology at the Technische Universitat, Germany. He also collaborated as a computational designer with Marc Fornes / THEVERYMANY and Studio Osman Akan.
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ACADIA was founded in 1981 by some of the pioneers in the field of design computation including Bill Mitchell, Chuck Eastman, and Chris Yessios. Since then, ACADIA has hosted over 30 conferences across North America and has grown into a strong network of academics and professionals in the design computation field.

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Proceedings Catalog of the 38th Annual Conference of the Association for Computer Aided Design in Architecture

UNIVERSIDAD IBEROAMERICANA, MEXICO CITY

Editors
Phillip Anzalone, Marcella Del Signore + Andrew John Wit
Contained in this year’s paper proceedings are an unbiased mixed of the precise/imprecise and the computationally faithful/unfaithful. The juxtaposition of this seeming contradictory research and/or projects paints a picture of a broadening computational discourse at the intersection of art, science and technology.

The presented research mediates physical, digital, virtual and mixed realities, bridges scales from the singular material compounds to the complex conglomerations associated with the urban environment, and all the while pushing against the limits of design both on Earth and beyond.

This year’s conference calls into question how we within the disciplines of architecture and design as well as those outside view the role of computation, production and advanced technologies such as robotics and artificial intelligence within architecture, design and the built environment.

Anzalone, Del Signore + Wit