



# Computational Design

**Neil Leach  
Philip F. Yuan**

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- *Computational Design* offers an informed overview of the impact of computational techniques on architectural design today, providing a snapshot of the latest developments in the field, drawing upon the leading experts in architectural practice and education from across the world
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How are computational techniques changing the ways in which architects are designing buildings today? *Computational Design* offers a range of informed opinions on the subject, written by some of the leading authorities in the world. It addresses parametric and algorithmic design, along with other related subjects, such as swarm intelligence, artificial intelligence, machine learning, interactive design, video gaming, building information modelling, geographic informational systems, remote sensing and data visualisation. The volume is divided into different sections comprising Manifestos, Methodologies and Projects, and also includes a helpful Introduction that offers a brief history of computational design.

Neil Leach is a Professor at Tongji University, FIU and EGS. He has also taught at Harvard, AA, Columbia, Cornell, DIA, USC and SCI-Arc. He has published over 30 books, including *Rethinking Architecture* (Routledge 1997), *Designing for a Digital World* (Wiley, 2002), *Digital Tectonics* (Wiley, 2004), *Camouflage* (MIT Press, 2006), *Digital Cities* (Wiley, 2009) and *3D Printed Body Architecture* (Wiley, 2017). Philip F. Yuan is a Professor and Ph.D Advisor at Tongji University. He is also the founding partner of Archi-Union and Fab-Union with achievements in the research and discovery progress of digital design and intelligent construction areas in China. He has published 7 books, including *Fabricating the Future* (Tongji University Press, 2012), *Scripting the Future* (Tongji University Press, 2012), and *From Diagrammatic Thinking to Digital Fabrication* (Tongji University Press, 2016).

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