Towards a Robotic Architecture

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- This book aspires to be the first scholarly treatment of a broad range of robotics research in architecture and design fields

The field of robotics is coming of age. Robotics and artificial intelligence represent the next cutting edge technology to transform the fields of architecture and design. The past decade's surge towards more computationally defined building systems and highly adaptable open-source design software has left the field ripe for the integration of robotics whether through large-scale building fabrication or through more intelligent/adaptive building systems. Through this surge, architecture has not only been greatly influenced by these emerging technologies, but has also begun influencing other disciplines in unexpected ways. The purpose of this book is to provide systems of classification, categorisation, and taxonomies of robotics in architecture so that a more systematic and holistic body of work could take place while addressing the multifarious aspects of possible research and production. As the research in this area is in its infancy, the book will play the role of bringing together scholars, designers, and industry members' defining their positions along the four frameworks for architectural robotics. The book aspires to be the first scholarly treatment of a broad range of robotics research in architecture and design fields. It will address how architectural robotics can open up unique and innovative possibilities both within architecture and related disciplines.

Dr. Mahesh Daas is the dean of the School of Architecture, Design & Planning at the University of Kansas. The Association for Computer Aided Design in Architecture (ACADIA) has twice elected him as its president, and recognised his leadership in 2013 with the ACADIA Society Award of Excellence. He serves on the editorial board of the *International Journal of Architectural Computing*. In 2011 he was named an Association of Collegiate Schools of Architecture (ACSA) Distinguished Professor. He is the founder of An Inconvenient Studio that partners with professional firms, academic institutions, and corporations that result in educational sponsorships and cutting edge collaborative research opportunities and creates entrepreneurial startups. **Professor Andrew John Wit** is an Assistant Professor of Digital Practice within Temple University where he leads research, courses, and workshops focused around novel building systems generated through the integration of light-weight composites, digital tools/fabrication and robotic systems.