University of Hawaii at Manoa
School of Architecture Lectures
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Kostas Terzidis
Permutation
Architecture

6:00-7:30 PM, Thursday, January 28, 2010
School of Architecture Auditorium
University of Hawaii at Manoa

The purpose of this research is to use permutations as a computational method for the automatic generation of architectural plans of buildings. The objective is to create a computational system that will take as input coefficients the site, spaces, and adjacency matrix of a building program and then calculate an exhaustive list of all possible permutations (i.e. non-repetitive order-specific rearrangements of these spaces within the site constrained by the adjacency matrix).

Kostas Terzidis is an Associate Professor at the Graduate School of Design at Harvard University. He holds a PhD from the University of Michigan (1994). His research work focuses on creative experimentation within the threshold between arts, architecture, and computer science. He is the author of *Expressive Form: A Conceptual Approach to Computational Design* (Spon Press, 2003), *Algorithmic Architecture* (Elsevier, 2006), and *Algorithms for Visual Design* (Wiley, 2009) .