



buildings



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Applications of Mathematics to Architecture

Guest Editors:

Prof. Dr. Nikos A. Salingaros

Department of Mathematics,
University of Texas at San
Antonio, San Antonio, Texas, USA

salingar@gmail.com

Dr. Michael W. Mehaffy

Centre for the Future of
Places, KTH Royal Institute of
Technology, Stockholm, Sweden

michael.mehaffy@gmail.com

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Message from the Guest Editors

Dear Colleagues,

We will focus on network science, topology, fractals, group theory, and related developments. This discipline combines the results of Christopher Alexander with those of many other researchers who identified the necessary qualities for structures to have a positive emotional feedback on people. The design toolkit also includes most classical and traditional architectures from all over the world. By extending those tried-and-tested design toolkits into new territories, the mathematical toolkit empowers innovative practitioners to create never-before-seen buildings. Importantly, new designs, if they follow the new guidelines, will share the same high degree of adaptivity as the best-loved heritage buildings. We will not be as interested in how new developments in mathematics make more exuberant and imaginative art forms possible—for example, computer-generated splines and the like—but rather what these developments tell us about the adaptive nature of habitat in today's context. We will also be interested in the potential crossover applications of these insights to other disciplines, including biology, physics, and philosophy.

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Special Issue