Architectural Planning and Design, Urban Analysis

Kashiwa2 Cooperation Hub 301

## K. HONMA LAB.

## Mathematical Engineering of Spatial Design



Department of Human and Social Systems, Design-Led X Platform Large-Scale Experiment and Advanced-Analysis Platform

Mathematical Engineering of Spatial Design

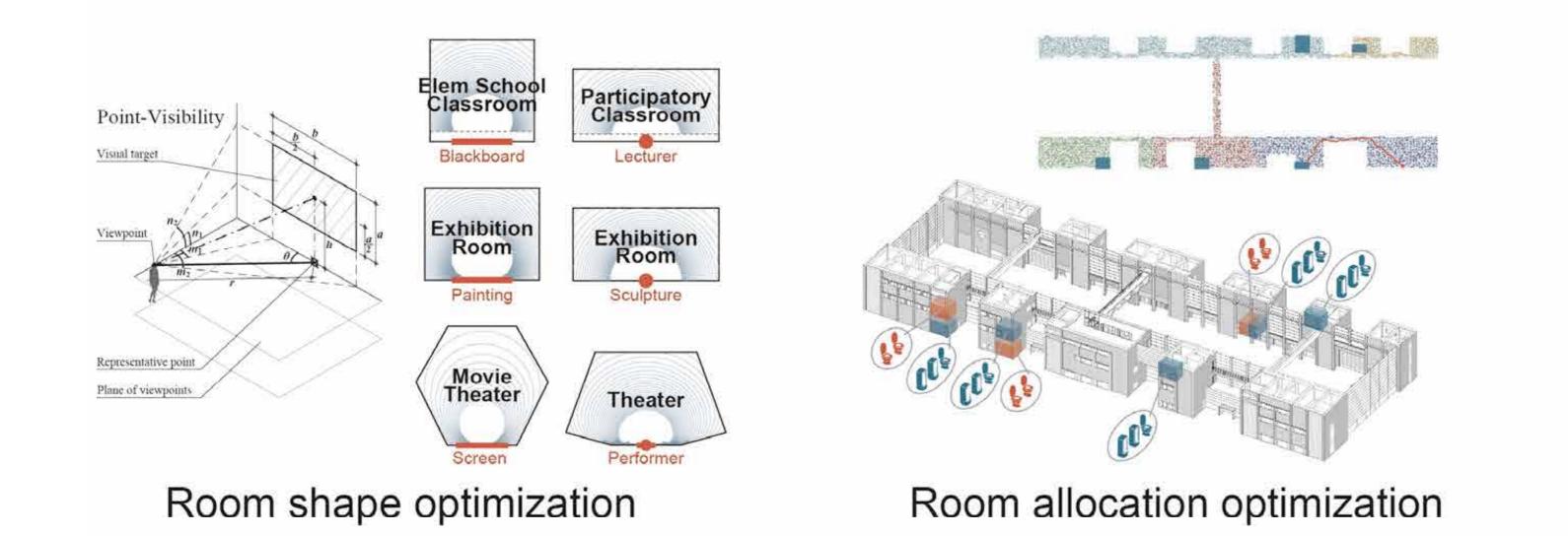
Department of Architecture, Graduate School of Engineering

http://hnm.iis.u-tokyo.ac.jp/

We aim at "fusion of design and engineering" in architectural and urban planning.

Toward this future goal, we are conducting the following research in recent years: (1) Development of new spatial analysis methods for architectural and urban design (2) Innovative architectural and urban design driven by the developed spatial analysis methods (3) Urban analysis using geographic big-data (4) Theoretical research on facility allocation and urban growth based on behavioral choice model (5) Activities of "Design Lod X"

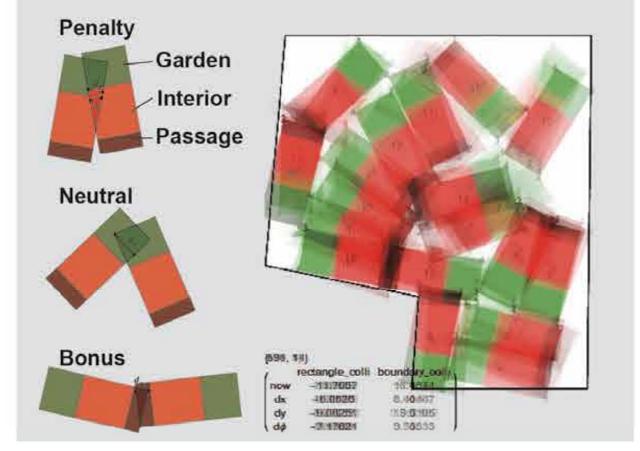
(5) Activities of "Design-Led X"



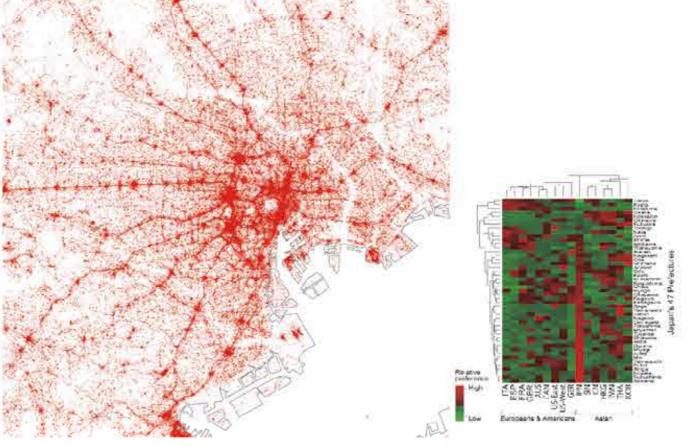


Architectural design

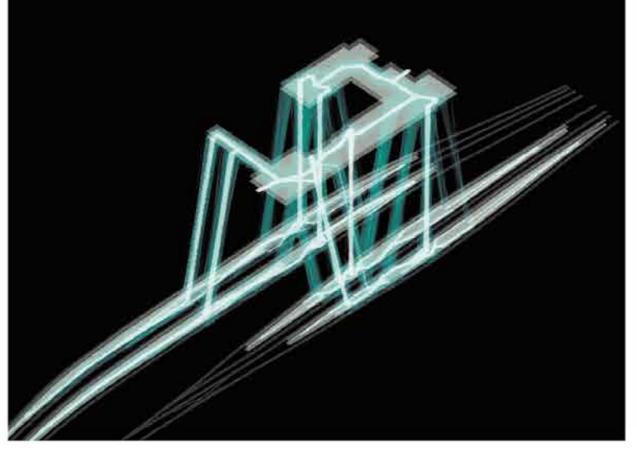
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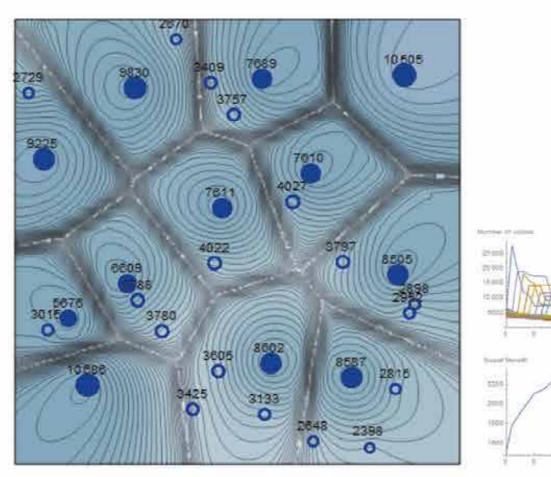
Packing problem of dwelling units



Urban analysis using big-data



Planning based on network analysis



Facility location problem



Quantification of spatial experience



Activities of "Design-Led X"

