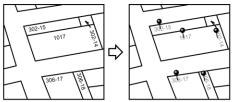


CAD polygon surfaces representing each building of a target city

2. Input data 2



Extraction of position and attribute data from land lot maps relating to official building registry

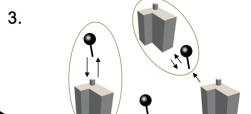
6.

with less uncertainty

Sequential trial of model construction

structures

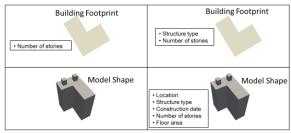
for specific type of with large uncertainty



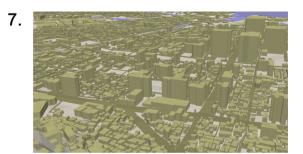
Nearest neighborSuccess in matching

Matching of CAD polygon surfaces and attribute data

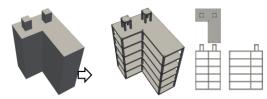
4.



Automatically generated heterogeneous structure datasets of a target city

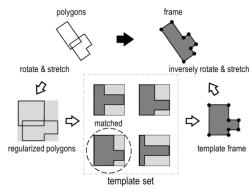


Structure models for urban earthquake simulation

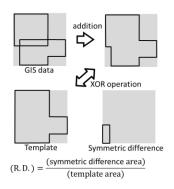


5.

Conversion of CAD polygon surfaces to 3D shapes with topological information making use of template fitting methodology



Schematic of template fitting



Evaluation of the relative difference between polygons