Solid Model Approach Designed for Smart Cities in Vertical Castro Techniques

Yasemin Kuleyin (Turkey)

SUMMARY

In our country and other countries of the world, as the first step in the processing of the 3rd dimension with the hybrid method to the existing 2-dimensional cadastral system in which the neighborhood relations are defined by integrating the parcel and the building, the matless solid model without base was built. However, the architectural project to be vectorized cannot be obtained or L3 and L4 models of the oblique method have been faced with the high cost or the problem of integrating even if data is available. With the oblique L0 model, the view of the building with all its facades (number of floors) and the outer frame area of the building with roof coordinates are obtained and its location relative to the parcel is determined.

With the method applied in this study;

-Determination of independent sections is made with a field team,

-Building area (base) coordinates are obtained with certain accuracy (square decimetres),

- The number of independent sections on each floor and common areas (stairwell, doorman flat, shelter, warehouse, basement floors, parking place, etc.) are determined,

- It can produce surface areas of independent sections within the building based on coordinates that can be produced with certain accuracy.

By applying the method presented in this study;

- Structure intelligence of oblique

Solid Model Approach Designed for Smart Cities in Vertical Castro Techniques (10881)
Yasemin Kuleyin (Turkey)

FIG e-Working Week 2021
Smart Surveyors for Land and Water Management - Challenges in a New Reality
Virtually in the Netherlands, 21–25 June 2021

data,

- Starting for 3rd Dimension cadastre solid model,

- Data required for real estate valuation

- For smart cities, a solid model at accepted level (decimeter square) will be produced.