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Creating Database of Fuji-Duka and Map Expression using high precision DEM

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There are "Fuji-Duka" which imitated Mt. Fuji as artificial terrain.

It is assumed that the construction continued from the second half of the 1700s to the 1960s, and although the part is still existing on Kanto. But the recognition may be low, and the distributive characteristics has some questions.

Then, we have mapped the position of the Fuji-Duka in Tokyo, and started creating database the sizes (a diameter, relative height, etc.) measured by the field survey and the aerial photograph, and other attributes.

Moreover, we have verified possibility of map expression using high precision DEM data (2m grid).

Although we recognized that the number of Fuji-Duka is dozens to 100 in Tokyo, we can not found out the causal relationship between distribution and geographical characteristics.

On the other hand, if the Fuji-Duka have over 5m in relative height and over 20m in diameter, it may be able to read quite clearly by relief map made from 2m DEM. It's proved the validity of the airplane loading type laser scanner.

Keywords: Fuji-Duka, high precision DEM, Database