

PPS003-P18

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Detection of Craters as Concentric Contours on DTM

Shin Sato^{1*}, Hirohide Demura¹, Noriaki Asada¹, Naru Hirata¹, Yoshiko Ogawa¹, Chikatoshi Honda¹, Kohei Kitazato¹, Junya Terazono¹

¹Aizu University

We propose new algorithm to detect lunar craters on DTM. When we drew contours on DTM, crater appears as concentric circles because a crater is a circular depression on planetary surface. This algorithm extracts ellipses from contour lines and extracts a crater by searching a concentric circle. The current version of the algorithm achieves a detection rate of 80 % for craters > 200 m on a lunar DTM from TC of Kaguya.

Keywords: crater, contour