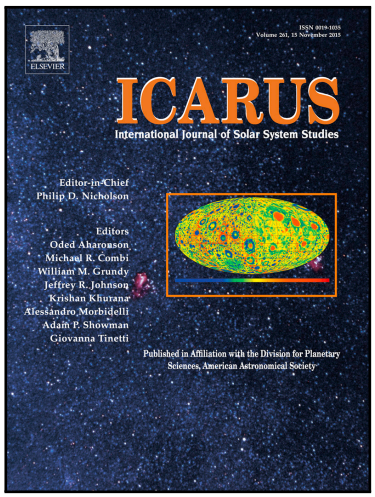
Accepted Manuscript



Lunar Crater Identification via Deep Learning

Ari Silburt, Mohamad Ali-Dib, Chenchong Zhu, Alan Jackson, Diana Valencia, Yevgeni Kissin, Daniel Tamayo, Kristen Menou

PII: S0019-1035(18)30138-6
DOI: 10.1016/j.icarus.2018.06.022
Reference: YICAR 12943

To appear in: *Icarus*

Received date: 6 March 2018
Revised date: 29 May 2018
Accepted date: 22 June 2018

Please cite this article as: Ari Silburt, Mohamad Ali-Dib, Chenchong Zhu, Alan Jackson, Diana Valencia, Yevgeni Kissin, Daniel Tamayo, Kristen Menou, Lunar Crater Identification via Deep Learning, *Icarus* (2018), doi: 10.1016/j.icarus.2018.06.022

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- Trained a Deep Learning model to automatically identify Lunar craters.
- Reproduced a human-classified crater distribution on a Lunar test patch.
- Used Moon-trained model to successfully recognize craters on Mercury.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/8133627

Download Persian Version:

https://daneshyari.com/article/8133627

Daneshyari.com