







Home ▶ All Journals ▶ Computer-Aided Design and Applications ▶ List of Issues ▶ Volume 13, Issue 1 ▶ Design and fabrication of periodic latti

Computer-Aided Design and Applications > Volume 13, 2016 - Issue 1: 3D Printing

674 60

0

Views CrossRef citations to date Altmetric

Special Section: 3D Printing

Design and fabrication of periodic latticebased cellular structures

Recep M. Gorguluarslan ➡, Umesh N. Gandhi, Raghuram Mandapati & Seung-Kyum Choi

Pages 50-62 | Published online: 21 Aug 2015

66 Cite this article

https://doi.org/10.1080/16864360.2015.1059194

Check for updates

Sample our
Engineering & Technology
Journals
>> Sign in here to start your access to the latest two volumes for 14 days

Full Article

Figures & data

References

66 Citations

Metrics

➡ Reprints & Permissions

Read this article

ABSTRACT

A methodology, which consists of design, optimization and evaluation of periodic

lattice-b

user-frie

size opti

200622

approac

the s

size of the

both yie

built and

Physical

We Care About Your Privacy

We and our 845 partners store and/or access information on a device, such as unique IDs in cookies to process personal data. You may accept or manage your choices by clicking below, including your right to object where legitimate interest is used, or at any time in the privacy policy page. These choices will be signaled to our partners and will not affect browsing data. Privacy Policy

We and our partners process data to provide:

Use precise geolocation data. Actively scan device characteristics for identification. Store and/or access information on a device. Personalised advertising and content, advertising and content measurement, audience research and services development.

List of Partners (vendors)

Essential Only In The

Show Purpose unit cells.

Then, for eam and

proach for

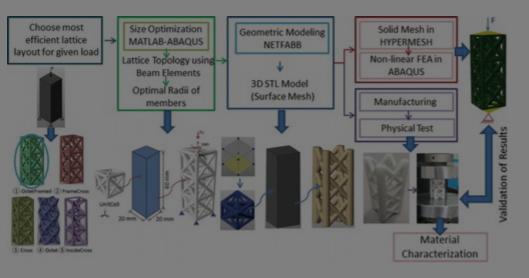
nance.

laterial

e structure is

properties for the 3D printed parts are determined for the finite element study using reverse engineering of actual measured data.

GRAPHICAL ABSTRACT



Q KEYWORDS: Additive manufacturing 3D Printing lattice-based cellular structure topology optimization

ORCID

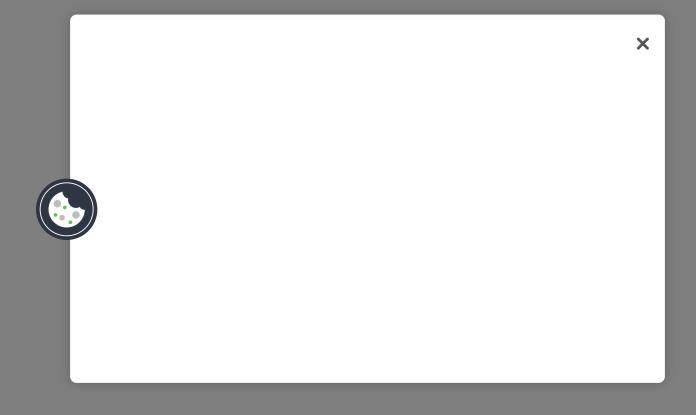
Recep M. Gorguluarslan http://orcid.org/[0000-0002-0550-8335]

Umesh N. Gandhi http://orcid.org/[0000-0003-1162-5279]

Raghuram Mandapati http://orcid.org/[0000-0002-8313-448X]



Computer-Aided Design for Additive Manufacturing of Cellular Structures > David W. Rosen Computer-Aided Design and Applications Published online: 5 Aug 2013 Design for Additive Manufacturing of Cellular Structures > Chen Chu et al. Computer-Aided Design and Applications Published online: 9 Aug 2013 View more



Information for Open access Authors Overview R&D professionals Open journals Editors **Open Select** Librarians **Dove Medical Press** Societies F1000Research Opportunities Help and information Reprints and e-prints Advertising solutions Newsroom Accelerated publication Corporate access solutions Books Keep up to date Register to receive personalised research and resources by email Sign me up Taylor & Francis Group Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions Accessib

