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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah : Estimation of foot pressure from human footprint depths using 3D scanner
 Jumlah Penulis : 3 Orang
 Status Pengusul : Penulis ke-2
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Nilai Pengusul = (40% x 28,00)/2 = 5,60			

Semarang, 14 Mei 2019

Reviewer 2

Rusnaldy, S.T., M.T., Ph.D.
 NIP. 197005201999031002
 Unit Kerja : T. Mesin FT UNDIP

Reviewer 1

Dr. Agus Suprihanto, S.T., M.T.
 NIP. 197108181997021001
 Unit Kerja : Teknik Mesin FT UNDIP

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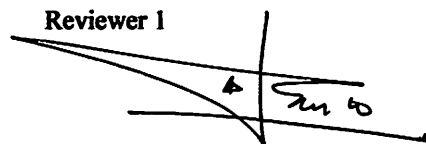
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Dr. Agus Suprihanto, S.T, M.T.
 NIP. 197108181997021001
 Unit kerja : Teknik Mesin FT UNDIP

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Rusnaldy, S.T., M.T., Ph.D.
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Volume 1717, 29 March 2016, Article number 4943451
4th International Conference and Exhibition on Sustainable Energy and Advanced Materials 2015, ICE-SEAM 2015; Solo; Indonesia; 11 November 2015 through 12 November 2015; Code 121290

Estimation of foot pressure from human footprint depths using 3D scanner (Conference Paper)

Wibowo, D.B.^a Haryadi, G.D.^a Priambodo, A.^b

^aMechanical Engineering Dept., Faculty of Engineering, Diponegoro University, Indonesia

^bOrthopedic Dept., Faculty of Medicine, Diponegoro University, Indonesia

Abstract

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The analysis of normal and pathological variation in human foot morphology is central to several biomedical disciplines, including orthopedics, orthotic design, sports sciences, and physical anthropology, and it is also important for efficient footwear design. A classic and frequently used approach to study foot morphology is analysis of the footprint shape and footprint depth. Footprints are relatively easy to produce and to measure, and they can be preserved naturally in different soils. In this study, we need to correlate footprint depth with corresponding foot pressure of individual using 3D scanner. Several approaches are used for modeling and estimating footprint depths and foot pressures. The deepest footprint point is calculated from z max coordinate-z min coordinate and the average of foot pressure is calculated from GRF divided to foot area contact and identical with the average of footprint depth. Evaluation of footprint depth was found from importing 3D scanner file (dxf) in AutoCAD, the z-coordinates than sorted from the highest to the lowest value using Microsoft Excel to make footprinting depth in difference color. This research is only qualitatif study because doesn't use foot pressure device as comparator, and resulting the maximum pressure on calcaneus is 3.02 N/cm², lateral arch is 3.66 N/cm², and metatarsal and hallux is 3.68 N/cm². © 2016 AIP Publishing LLC.

SciVal Topic Prominence

Topic: Foot | Flatfoot | Flat feet

Prominence percentile: 91.653

ISSN: 0094243X
ISBN: 978-073541365-8
Source Type: Conference Proceeding
Original language: English

DOI: 10.1063/1.4943451
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Preface: 4th International Conference and Exhibition on Sustainable Energy and Advanced Materials 2015 (ICE-SEAM 2015)

Dear Distinguished Delegates and Guests,

On behalf of the Organizing Committees, I warmly welcome you to the 4th International Conference and Exhibition on Sustainable Energy and Advanced Materials 2015 (ICE-SEAM 2015), held on November 11, 2015 in Solo, Indonesia. This conference is hosted by Sebelas Maret University (UNS), Indonesia and jointly organized by Universiti Teknikal Malaysia Melaka (UTeM), Malaysia, Brawijaya University, Indonesia and Diponegoro University, Indonesia. The theme of the ICE-SEAM 2015 conference is **“Energy Efficient and Advanced Material for Sustainable Development”**.

The aims of this joint conference are to increase internationalization activities and enhance collaborative relationships between universities, disseminate information, technology, engineering, performance and the latest scientific discoveries in the field of engineering at the international level and provide information and exposure to the industry and other institutions on the progress and opportunities for collaboration in research and consultancy hence strengthen networking between academicians, scientists, engineers and technologists at regional and international levels.

More than 85 papers were submitted to ICE-SEAM 2015 and around 69 papers are accepted for the conference after peer reviewed by reviewers drawn from the scientific committee, external reviewers and editorial board depending on the subject matter of the paper. Reviewing and initial selection were undertaken electronically. After the peer-review process, the submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference.

We would like to thank the Rector of UNS for financial supporting, the keynote speakers, the program chairs, organization staff, the members of the committees and our sponsors for their work. Thanks also go to all those who have contributed to the success of ICE-SEAM 2015.

Hopefully, all participants and other interested readers benefit scientifically from the conference.

We hope all of you have a unique, rewarding and enjoyable week at ICE-SEAM 2015 in Solo.

With our warmest regards,
Dr. Triyono
Solo, Indonesia
November 11, 2015

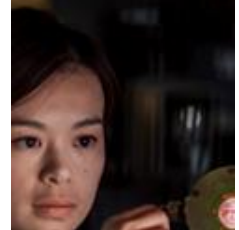
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AIP Conference Proceedings 1717, 010001 (2016);
<https://doi.org/10.1063/1.4943422>

PLENARY PAPERS

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**National Composite Center-A
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AIP Conference Proceedings 1717, 020001 (2016);
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Kuncoro Diharjo, V. Bram Armunanto and S. Adi Kristiawan

AIP Conference Proceedings **1717**, 040024 (2016);
<https://doi.org/10.1063/1.4943467>

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Sukmaji Indro Cahyono, Angit Widodo, Miftahul Anwar, Kuncoro Diharjo, Teguh Triyono, A. Hapid and S. Kaleg

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