International Conference on Advances in Robotic, Mechanical Engineering and Design

(ARMED 2011)

Bangalore, India 14-15 September 2011

Editors:

Janahanlal Stephen R. C. Biradar

ISBN: 978-1-62995-407-5

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2011) by The Institute of Doctors Engineers and Scientists (IDES) All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact IDES-CPS at the address below.

IDES-CPS Prins Hendriklaan 19 1075 AZ Amsterdam, Netherlands

Phone: +31-6855 84465

cps.info@theides.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2634 Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

1. Buckling of Skew Plates Subjected to Linearly Varying In-Plane Edge Load using Finite Element Method <i>Girish G B, Srinivasa C V and Suresh Y J</i>	1-5
2. The Effect of the Reduction of Coordinates on the Identified Joint Dynamic Properties Soleimanian P, Tizfahm A and Sadeghi M H	6-11
3. Failure Analysis of Inner Suspension Spring of Railway Engine: A Case Study Manoj A Kumbhalkar, Yenarkar Y L and Grover A K	12-16
4. Conceptual design of a lateral undulation and side winding motion mechanism in a snake robot <i>Rajashekhar V S and Senthil R</i>	17-21
5. Development of Rotavator in Soil Trenching Applications Chitralekha Dey, Amit Jain and Hajare S G	22-26
6. Vibration Analysis of Adhesively Bonded Lap Joint Deshmukh R A and Sonawane S A	27-29
7. Evolutionary Decision Making Algorithm for Patriot Missile Yothesh Kumar Narendran and Kothai Thirumalai	30-32
8. Dynamic Lateral Loading of Cylindrical tubes_ A FE Analysis Reza emami, Epkoorapati Eshwara Prasad and Elahe Sadat Alavi Moghadam	33-36
9. Neuro-Fuzzy Approach for Obstacle Avoidance in Autonomous Mobile Robot Sagar B Bhokre, Kathika Roy and Naik S D	37-39
10. Reduction of Co Emission Levels in 4-Stroke 2 Wheelers Sathish S, Venkatesh Reddy and Venkatraman K	40-43
11. Assessment of Sandwich Plates Subject to Blast Loads Chitralekha Dey and Sunil Nimje	44-48