

3rd International Conference on Automation and Mechatronics Engineering (ICAME 2019)

IOP Conference Series: Materials Science and Engineering
Volume 812

Phuket, Thailand
25 - 27 October 2019

ISBN: 978-1-7138-2674-3
ISSN: 1757-8981

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.

This work is licensed under a Creative Commons Attribution 3.0 International Licence.
Licence details: <http://creativecommons.org/licenses/by/3.0/>.

No changes have been made to the content of these proceedings. There may be changes to pagination and minor adjustments for aesthetics.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.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: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

ELECTRONIC AND ELECTRICAL ENGINEERING

A TRACTION CONTROLLER OF A TWO-WHEEL MOBILE ROBOT WITH FEEDFORWARD COMPENSATOR	1
<i>M Dahlan, A Sutapun, V Sangveraphunsiri</i>	
STABILIZATION OF POWER FLUCTUATION OF RENEWABLE ENERGY BASED ON HYBRID ENERGY STORAGE SYSTEM.....	7
<i>Weibin Xu, Xinyan Zhang, Jiajun Zhang, Lei Yu, Yang Yu</i>	
EXPERIMENTAL STUDIES OF THE CORROSION RESISTANCE FOR Q235 AND Q235NHIN THE OUTDOOR HIGH-VOLTAGE DISCONNECTOR	14
<i>Z Q Zhou, Y T Zhou, J Jhe, Y Lu, Q F Sun, H Y Mao</i>	
INVESTIGATIONS WITH VARIOUS INNER SHIELDING DISTANCE TESTS FOR A NOVEL COUPLER-BASED CPT SYSTEM APPLIED FOR ELECTRIC VEHICLES USING ELECTROMAGNETIC RESONANT COUPLING AND ALUMINIUM SHIELDING MATERIAL	20
<i>J Duan, W Wang</i>	
THE RESEARCH ON DATA CENTRE CONSTRUCTION INVESTED BY POWER GRID COMPANY MODE	28
<i>Cheng Wang, Hongjian Zhu, Zuquan Liang</i>	
THE TECHNOLOGY OF USING INFLATABLE STRUCTURES MADE OF SPECIAL MATERIALS TO ADAPT THE DE-ORBITING SYSTEM FOR REMOVING SPACECRAFT	33
<i>V V Koryanov, A G Toporkov, V P Kazakovtsev, A A Nedogarak</i>	

CIVIL AND CONSTRUCTION ENGINEERING

STRUCTURE, LUMINESCENCE AND MECHANO-OPTICAL PROPERTIES OF STRONTIUM ALUMINATE DOPED WITH EUROPIUM AND DYSPROSIUM IONS	42
<i>A. A. Banishev, A. F. Banishev</i>	
FINITE ELEMENT SIMULATION OF REPEATED UPSETTING AT ELEVATED TEMPERATURE	48
<i>Wei Guo, Jin Zou, Keming Liu</i>	
THE INTEGRATION TECHNOLOGY OF DESULFURIZATION, DENITRATION AND HEAT RECOVERY FROM COKE OVEN FLUE GAS.....	53
<i>Hui Jiang, Shun Li, Jun Ha, Wei Guo, Yixin Pan, Xue Wan, Guowei Xie</i>	
STRUCTURE LOAD CALCULATION FOR ESSENTIAL ESW INTAKE STRUCTURE/CCW HX BUILDING CHILLED WATER COMPRESSION TANK.....	57
<i>Muhammad Sajjad, Dong Won Jung</i>	
RESEARCH AND MODELING OF WRINKLES AND CONTROL OF RECTANGULAR MEMBRANE STRUCTURES WITH HIGH-CLASS MODELING IN ON-ORBIT CONDITIONS	66
<i>S Kumar, S H Upadhyay, V V Koryanov</i>	

PAVEMENT DETERIORATION MODEL USING MARKOV CHAIN AND INTERNATIONAL ROUGHNESS INDEX.....	74
<i>A S Sati, S Abu Dabous, W Zeiada</i>	
PREDICTION OF PERMEABILITY AND COMPRESSIVE STRENGTH FOR PERVIOUS CONCRETE.....	81
<i>K Pareek, Y M Hong</i>	
A WRINKLING ANALYSIS AND CONTROL OF RECTANGULAR MEMBRANE STRUCTURES WITH UPSCALE MODELLING UNDER ON-ORBIT CONDITIONS.....	91
<i>S Kumar, S H Upadhyay, V V Koryanov</i>	
DETERMINATION OF PERVIOUS CONCRETE MIX BY STRENGTH.....	99
<i>Bo-Syun Huang, Yan-Fu Li, Chi-Hsing Wu, Chi Tang</i>	

Author Index