

JRAME Selected Papers Announcement

In the interest of promoting excellence in International Conference on Mechanical Engineering, JRAME will provide free access to the distinguished papers during the month of February 2020. Distinguished papers are now be evaluated by the JRAME Reviewers and Committees.

An outstanding paper that exemplifies quality, achievement, and significance to advance a field of Mechanical Engineering will be accepted to publish in the Journal of Research and Applications in Mechanical Engineering (JRAME) - TCI database. The selected papers will be notified again with the result via email after the revised version have been reviewed. Please note that all the JRAME selected papers have to do the registration and present their work at the TSME-ICoME 2019 held on 10th-13th December 2019 otherwise the paper will not be published in the Journal.

The TSME-ICoME 2019 Organizing Committees are very pleased to announce fourteen selected distinguished papers. Please join the TSME-ICoME 2019 conference in congratulating the following authors on their selected distinguished papers:

1. Thermal Investigation of Cell Arrangements for Cylindrical Battery with Forced Air-Cooling Strategy

W. Intano¹, A. Kaewpradap¹, S. Hirai² M., Masomtob³ *

¹Department of Mechanical Engineering, King Mongkut's University of Technology Thonburi,

²Department of Mechanical Engineering, Tokyo Institute of Technology, Tokyo, Japan

³Materials for Energy Research Unit, National Metal and Materials Technology Center (MTEC), National Science and Technology Development Agency (NSTDA), Pathum Thani, 12120, Thailand

2. Transformation of A Traditional Micromanipulator to A Semi-Automatic Cell Surgery Robotic System for In-Vitro Fertilization

K. Thamrongaphichartkul¹, S. Vongbunyong¹ *, L. Nuntakarn²

¹Innovation and Advanced Manufacturing Research Group, Institute of Field Robotics, King Mongkut's University of Technology Thonburi.

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3. Semi-Automatic System for Setup Process of Forging Machine

S. Vongbunyong, A. Wongpakdee, N. Suwanarawat, S. Phansaeng, T. Tothong

Innovation and Advanced Manufacturing Research Group, Institute of Field Robotics, King Mongkut's University of Technology Thonburi.

4. Energy Balancing and Analysis of Power System for BCCSAT-1 Satellite

Hayathorn Chattanapornyothin¹ *, Ned Surechainirun¹, Adirek Pitak¹, Phongsakorn Meemak², Phongsatorn Saisutjarit³

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²Astroberry Limited, Bangkok, Thailand

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5. Energy cost analysis of organic Rankine cycle with exhaust gas in off design conditions

Thanaphat Phueksaphanrat, and Atit Koonsrisuk*

School of Mechanical Engineering, Institute of Engineering, Suranaree University of Technology, Muang District, Nakhon Ratchasima 30000, Thailand

6. Development of medical device design method considering human centered design

K. Kikuta, D. Misaki

Department of Mechanical Systems Engineering, Faculty of Engineering, 1-24-2 Nishishinjuku, Shinjuku-ku, Tokyo, 1638677, Japan

7. Study on improvement of micromanipulation system by using a functional surface with a groove structure

Shuhei Yoshinaga¹, Kyuhei Tomie², Daigo Misaki¹ *

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²Nagaoka Institute of Design

8. Characterization of Particulate Matters from Biomass Combustion using Electron Microscopy and Energy Dispersive X-ray Spectroscopy

Hay Mon Oo¹ *, P. Karin¹, V. Wongpattharaworakul¹, N. Chollacoop², K. Hanamura³

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³Tokyo Institute of Technology, Meguro-ku, Tokyo, 152-8552, Japan

9. Effect of Biodiesel on Compression Ignition Engine's Combustion Behavior and Particle Emission

A. Tripatara¹ *, J. Boonsakda¹, P. Karin¹, W. Phairote¹, C. Charoenphonphanich¹, N. Chollacoop², H. Kosaka³

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10. Waste heat recovery power plant for a heat source temperature of 130 - 150°C

W. Raksa-in, A. Koonsrisuk*

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11. Design of a sloped solar chimney power plant powered by industrial waste heat

B. Chansawang, A. Koonsrisuk*

School of Mechanical Engineering, Institute of Engineering, Suranaree University of Technology, Muang District, Nakhon Ratchasima 30000, Thailand

12. Simulation of a hybrid dew-point evaporative cooling system

R. Somsanuk, T. Kamonsan, A. Koonsrisuk*

School of Mechanical Engineering, Institute of Engineering, Suranaree University of Technology,
Muang District, Nakhon Ratchasima 30000, Thailand

13. Fluid selection and optimal operating conditions of an ORC, and trilateral Rankine cycle power plant for a heat source temperature of 210°C - 250°C

T. Theamtat, A. Koonsrisuk*

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Muang District, Nakhon Ratchasima 30000, Thailand

14. Design of a solar chimney dryer

S. Klongdee, A. Koonsrisuk*

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