

## CONTENTS

### 2013 International Applied Science and Precision Engineering Conference

Research on Sealing Performance of Hydrostatic Pressure Mechanical Seal .....	673
..... Wei-Bing Zhu, He-Shun Wang, and Sheng-Ren Zhou	
Performance Evaluation of Three Types of Passive Micromixer with Convergent-Divergent Sinusoidal Walls .....	680
..... Arshad Afzal and Kwang-Yong Kim	
Design of a New Electromagnetic Valve with a Hybrid PM/EM Actuator in SI Engines .....	687
..... Ly Vinh Dat and Yaojung Shiao	
Effective Orifice Area of a Newly Developed Polyurethane Aortic Valve: Manufacturing and Evaluation ...	694
..... Wu-Chiao Shih, Ha-Hai Vu, Cheung-Hwa Hsu, Kai-Wen Yang, and Yaw-Hong Kang	
Contour Data Acquisition System for Electric Vehicle Distance Estimation System .....	700
..... Kuew Wai Chew and Chee Ken Leong	
Discoid and Asymmetrical Gyroless Micro-Satellite Off-Modulation Attitude Control with Kalman Filter .....	705
..... Ho-Nien Shou	
Applying Fuzzy Logic Controller to Intelligent Solar Panel Cleaning System .....	716
..... Cong-Hui Huang	
Synthetic Physical Models for Animating Unsteady Fish Motions .....	723
..... Shyh-Kuang Ueng and Hong-Kai Chen	
Periodic Damage Evaluation of Aging Offshore Jackets Based on Continuous Dynamic Tests .....	732
..... Fu-Shun Liu, Hong-Chao Lu, Wei-Ying Wang, and Dong-Ping Yang	
Development of an Intelligent Energy Saving Heat Pump for Water Heater with Fuzzy Logic Controller ....	739
..... Cong-Hui Huang	
A Study on Optimization of Ship Hull Form Based on Neuro-Response Surface Method (NRSM) .....	746
..... Soon-Sub Lee, Jae-Chul Lee, Sung-Chul Shin, Soo-Young Kim, and Hyun-Sik Yoon	
Modeling and Control of a Novel Ball Screw Mechanism .....	754
..... Wen-Hsiang Hsieh and Kai-Bi Chang	
Fault Diagnosis and Performance Assessment for a Rotary Actuator Based on Neural Network Observer ...	762
..... Jian Ma, Xin Li, Chen Lu, and Zi-Li Wang	
Title Index to Volume 22 (2014) .....	769
Author Index to Volume 22 (2014) .....	774
Key Words Index to Volume 22 (2014) .....	777