

CONTENTS

Section A: Marine Engineering, Maritime, and Marine Affair

Investigating Microstructures and High Temperature Superplasticity Behavior of Mg-5(Mass%) Sn Alloy by Using Equal Channel Angular Extrusion	Hao-Jan Tsai, Chin-Guo Kuo, Chuen-Guang Chao, and Tzeng-Feng Liu	379
An Interval-Valued Fuzzy Number Approach for Supplier Selection	Chan-Shal Lee, Cheng-Chi Chung, Hsuan-Shih Lee, Guo-Ya Gan, and Ming-Tao Chou	384
An Empirical Application of Fuzzy QFD to Improve the Relationship Quality of the Home Delivery	Tsung-Yu Chou and Ming-Tao Chou	390
Slope Stability Analysis of Transient Seepage under Extreme Climates: Case Study of Typhoon Nari in 2001	Chia-Feng Hsu and Lien-Kwei Chien	399
Robust Stabilization of Uncertain Switched Nonlinear Systems with Two Modes	Jian-Qiang Wang and Chee-Fai Yung	413
Seismic Response of an Arch-Beam Interacting with Sequential Moving Train Loads	Jong-Dar Yau, Ladislav Frýba, and Shota Urushadze	419
Predictions of Stress-Strain Curve and Fatigue Life for AISI 316 Stainless Steel in Cyclic Straining	Liang-Hsiung Chou, Yung-Chuan Chiou, Chia-Chin Wu, and Ying- Jen Huang	426
The Hydrodynamic Characteristics of an Inclined Submerged Porous Plate with Rock Filled Structure	Ching-Yun Yueh, Shih-Hsuan Chuang, and Chih-Hao Su	434
Labview-Based Remote Real-Time Evaluation System for Motor Winding Machines	Jia-Sheng Hu, Chien-Chu Yeh, Ke-Han Su, Chao-Jen Chen, and Ming-Yang Cheng	443
Probability Calculation Method with Neural Network for Estimating Wave Overtopping at Coastal Structures: Learning from Regular Wave Tests	Ching-Piao Tsai, Karl-Friedrich Daemrich, and Chuen-Lin Ho	449
Numerical Simulation of Deep Excavation in Gravel Layers	Chien-Yi Wu and Shuh-Gi Chern	458
Velocity-Based Egress Model for the Analysis of Evacuation Process on Passenger Ships	Yoon-Ok Cho, Sol Ha, and Kwang-Phil Park	465
Unbalanced Load Compensation in Three-Phase Power System with a Current-Regulated DSTATCOM Based on Multilevel Converter	Wei-Neng Chang, Ching-Huan Liao, and Po-Li Wang	483
Numerical Simulation Study of Hydrodynamic Impact of Sea-Crossing Bridge	Xiao-Feng Guo, Chu-Han Chen, Jun-Jian Tang, and Zhou-Hua Guo	492
Service Innovation at Keelung International Harbor	Ming-Chung Lii, Yuh-Ling Su, and Kung-Don Yc	501
Effect of Lorentz Force on Hydrogen Production in Water Electrolysis Employing Multielectrodes	Ming-Yuan Lin, Wen-Nong Hsu, Lih-Wu Hourng, Teng-Shih Shih, and Chien-Ming Hung	510
Soft Computing Technologies in Design of Fuzzy Controller for Active Vibration Isolation Systems	Jinn-Tong Chiu and Chih-Chung Fang	518
On Wave Interaction with Floating Structures with Dragged Moorings	Po-I Chen, Cheng-Tsung Chen, and Jaw-Fang Lee	529
A Novel Method for Testing LCD by Integrating Shorting Bar and Taguchi DOE Technologies	Jium-Ming Lin and Yuan-Jung Chiang	538
A ROI-Bag Approach for Automatic Liver Cirrhosis Diagnosis Using Ultrasound Images	Yi-Lan Lin, Chih-Lan Lin, Shyi-Chyi Cheng, Chen-Kuei Yang, and Yu-Hsiang Wu	547
The Composite Design of H _∞ -FRL Sliding-Mode Controller	Shun-Min Wang, Zhi-Hao Chen, and Cheng-Neng Hwang	561
The Development of New Type Free-Fall Lifeboat Using Fluid Structure Interaction Analysis	Ahmad Fauzan Zakki, Aulia Windyandari, and Dong Myung Bae	574
Influence of Shot-Peening-Induced Residual Stresses on Post-Necking Behavior of Tempered Ultrahigh-Strength Low Alloy 300M Steel	Shing-Hoa Wang, Yi-Ming Jen, Yu-Cyuan Lin, Bee-Fong Wu, Hsiu-Chuan Hsu, and Ji-Jung Yeh	579
Optimization of Large-Scale Economic Dispatch with Valve-Point Effects Using a Modified Hybrid PSO-DSM Approach	Chun-Lung Chen, Yu-Liang Lin, and Yen-Chang Feng	587
Outsourcing Decisions in Single Machine Scheduling Problem with Multiple External Facilities	Jung Man Hong and Jong Hyup Lee	601
Model for Assessing the Functionality of Soil and Water Conservation Facilities	Nai-Hsin Pan and Kuei-yen Chen	608
A Comparison of Models Used for Aircraft Tractor Supplier Selection from a Financial Perspective	Chang-Shu Tu, Chan-Shal Lee, Shing-Chih Yang, and Hsuan-Shih Lee	616

Section B: Oceanography, Marine Biology, Fishery Science, and Marine Ecology

Applications of Datum Marker Buoy Data to Search and Rescue of Persons in Water	Chou-Tien Yao, Chen-Han Tsai, and Hsiang-Hang Hsu	629
Temperature-Dependent Pathogenicity of Grouper Iridovirus of Taiwan (TGIV)	Hsin-I Liu, Ying-Chu Lin, Pinwen Peter Chiou, and Hsin-Yiu Chou	635
LD ₅₀ of Gamma Ray Irradiation Employed in Sulawesi Medaka <i>Oryzias latipes</i>	Chih-Yang Huang, Bin Lin, Kang-Wei Chang, and Shyn-Shin Sheen	543
Facilitating the Release of Bionutrients from <i>Morinda citrifolia</i> (Noni) by Cellulase Hydrolysis and Lactic Acid Bacteria Fermentation and Their Effects on α -Amylase and α -Glucosidase Activities	Hui-Hung Lee, Li-Jung Yin, Hsueh-Ming Tai, and Shann-Tzong Jiang	646
High-Resolution Surface Circulation of the Bay of Bengal Derived from Satellite Observation Data	Mridula Kuttiyattu Rayaroth, Benny Neettumkara Peter, and Mohd Razali Mahmud	654