Advances in Sustainable Port and Ocean Engineering

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The journal encourages the dissemination of knowledge and understanding of the coastal zone by promoting cooperation and communication between specialists in different disciplines. Natural scientists, for example, are encouraged to collaborate with professionals in other fields to prepare contributions relating to the coastal zone that foster increased appreciation of coastal environments and processes. By means of this journal, with its scholarly and professional papers, systematic review articles, book and symposia reviews, communications and news, and special topical issues, an international forum for the development of integrated coastal research is provided.

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Gold Coast, Australia. Gold Coast is a coastal city in the Australian state of Queensland, approximately 66 kilometres (41 mi) south-southeast of the state capital Brisbane and immediately north of the border with New South Wales. With truly epic theme parks, Gold Coast and its surrounding area are key holiday resort in Queensland. There are beautiful sunshine, continuous white beach, clear blue sea water, and romantic palm forest. People coming here for a holiday add a lot of vitality and dynamic for it. Australian who love surfing call it the “Surfers Paradise”. Q1 Building is the tallest building in the southern hemisphere and the tallest pure residential apartment building in the world. Its appearance was inspired by the Sydney Olympic torch. SkyPoint Observation Deck at the top is a must for all visitors to the Gold Coast. When the weather is fine, from Brisbane to Byron Bay, from the Pacific Ocean to the inland national park, you can enjoy a breathtaking 360-degree panoramic view.
# TABLE OF CONTENTS

**Preface**  

**OCEAN SCIENCE AND ENGINEERING**

<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Characteristics Numerical Simulation of Sea Entrance Soil under Dynamic Load</td>
<td>1</td>
</tr>
<tr>
<td>The Stability and Reliability of the Marine Anchor Rock Mass under Wave Action</td>
<td>6</td>
</tr>
<tr>
<td>Numerical Simulation of Marine Internal Wave Dynamics Based on Functional Analysis</td>
<td>12</td>
</tr>
<tr>
<td>Detection of Chemical Composition of Sea Water Based on Gaussian Wavelet</td>
<td>17</td>
</tr>
<tr>
<td>Dynamic Model Simulation of Long-term Evolution of Seabed Terrain of Dumping Area Based on Seabed Side-scan Sonar Detection Technology</td>
<td>23</td>
</tr>
<tr>
<td>Location and Energy Saving of Underwater Sensor Network for Monitoring Seabed Landslide</td>
<td>29</td>
</tr>
<tr>
<td>Modeling of the Stimulating Effect of Marine Circulation Industry on the Economic Development of Coastal Area of China</td>
<td>35</td>
</tr>
<tr>
<td>Prototype System Design of Mooring Buoy for Seafloor Observation and Construction of Its Communication Link</td>
<td>41</td>
</tr>
<tr>
<td>Design and Implementation of Geo-spatial Information Technology in Marine Ecological Environment Monitoring</td>
<td>50</td>
</tr>
<tr>
<td>Collaborative Intrusion Detection Method for Marine Distributed Network</td>
<td>57</td>
</tr>
<tr>
<td>Design of Drilling Fluid of High Temperature and High Pressure Resistance in Well Drilling of Deep water Area</td>
<td>62</td>
</tr>
<tr>
<td>Removal Mechanism of Ship Materials by Micro Ultrasonic Machining</td>
<td>68</td>
</tr>
<tr>
<td>Improved Design of Risk Assessment Model for PPP Project under the Development of Marine Architecture</td>
<td>74</td>
</tr>
<tr>
<td>Effect of Circulating Water Temperature Change on the Dynamic Characteristics of Ocean Ship Thermal-system Heater</td>
<td>81</td>
</tr>
</tbody>
</table>

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## INSHORE AND OFFSHORE DYNAMICS

### Impacts of Thermal Discharge on Phytoplankton in Daya Bay

Youyin Ye, Kaibiao Chen, Qianqian Zhou, Peng Xiang, Yunlong Huo, and Mao Lin

Predicting Wave-induced Ripple Geometry and Bottom Friction Factor

Qianlu Xiao, Ruijie Li, Chunhui Li, and Xuwen Fang

The Evolution of Mariculture Structures and Environmental Effects in China

Hongyun Han and Ye Jiang

Vertical Distribution of Sediment Concentration in Offshore Waters

Chunhui Li, Xiaoyan Fu, Qianlu Xiao, Xishan Pan, and Hongsheng Cao

Influence of stress shadow on multi-fractures initiation mechanism under volume fracturing in Offshore Oil Drilling

Suling Wang, Kangxing Dong*, Wei Song, Jinbo Li, and Chunlei Xing

Vibration Fracture Analysis and Optimization Design of Ocean Ship Transmission Shaft

Zhenqi Yu, Huifang Jia, and Xingyuan Huang

Autonomous Return Path Planning Method for Small Underwater Robots

Weibo Song, Wei Wang, Xianjiu Guo, and Fengjiao Jiang

Simulation of One-dimensional Earthquake Wave Field for Submarine Viscoelastic Medium in Shallow Sea Environment

Peng Sun, Fenghui Dong, Yuan Yao and Meijing Tan

Overlying Strata Movement of Below Protective Seam

Yuesong Bai and Yaoqing Hu

Carrying Capacity of Low Carbon Tourism Environment in Coastal Areas From the Perspective of Ecological Efficiency

Jun Han

An Empirical Study on Economic Growth Driving Forces in Onshore Area

Fei Feng and Xionghua Ji

Marine Foreign Trade Economic Zone Industry Investment Risk Evaluation Model under the Background of the Belt and Road

Ding Ren and Jinmin Du

Positive Role of Marine Tourism on Economic Stimulus in Coastal Area

Wenbin Liu and Zongfeng Cao

Modeling and Analysis of Buildings’ Wind Resistance and Temperature Loss Process in Coastal Area

Xiaomin Wang and Fan Li
Change of Farmers’ household Livelihood Strategies Based on the Coastal Rural Tourism Background ............................................................ Yi Xiao, Dongqi Luo, and Ke Yin 225

Modeling and Analysis of Marine Product Trade on the Coordinated Development of Economy and Resource in Border and Coastal Area .......................................................... Dongyu Chang 229

The Influence of Earth Pressure Balanced Shield Tunnel Under passing Coastal Water Body on Stratum Deformation ................................................................. Caixia Guo, Xiaoming Guan, Leilei Shi, and Shengyuan Qiu 237

Determination of Sr Isotopes in Seawater by Mass Spectrometry ................................................................. Ming Xu 247

Numerical Simulation of Rock Failure Process in Offshore Area ................................................................. Runcheng Xie, Chenggong Zhang, Shaoke Feng, Yongming Duan, Jun Chen, and Tong Deng 251

Evacuation Path Optimization Algorithm for Inland River Passenger Ship in Emergency Situation ................................................................. Yao Zhang, Dianye Zhang, and Jian Jin 256

Medium Rate Control Method for Ship Mobile Network Traffic Generation ................................................................. You Lu, Baochuan Fu, Xuefeng Xi, Zhancheng Zhang, and Ni Zhang 261

Seismic Resistance Performance of Shear Wall Structure of Assembled Coastal Buildings ................................................................. Yong Xiang, Yao Wei, Yibin Wang, and Kang Meng 267

MARINE GEOLOGY

Displacement Prediction of Rainfall-induced Landslide Based on Machine Learning ................................................................. Chao Shen and Shengjun Xue 272

The Quality Control Analysis on the Drainage Layer of the Floor of the Underground Building Structure in the Coastal Area ................................................................. Jiaojiuo Xu, Yong Xiang, Dandan Li, and Kang Meng 277

Analysis on Change Characteristics of Soluble Silica in Shallow Groundwater of Coastal Area Caused by Seawater Intrusion ................................................................. Weijia Zeng 282

The Estimation Method of $T_{2\text{new}}$ Value for Basin Marine Facies Carbonate Cores Based on Fractal Theory ................................................................. Haoyang Deng, Liqiang Sima, Fengsheng Zhang, Fanglin Liu, Wen Wu, Xiuying Sui, and Xin Wang 287

Deterioration Performance of Damaged Concrete Beams under Freezing-thawing Cycle and Chloride Environment in Coastal Cities ................................................................. Hui Wang, Shiqin He, and Caihui Fei 295

Superiority Analysis of Composite Structure of Initial Lining Segment and Secondary Lining Molded Concrete ................................................................. Caixia Guo, Kaihang Han, Leilei Shi, and Mingzhe Cui 300

Modeling and Analysis of the Influence of Costal Remediation and Repair Management Project on the Coastal Erosion and Siltation ................................................................. Tao Zou 305

Influence of Harbor Cement Production on the Concentration of Solid Suspension in the Surrounding Atmosphere ................................................................. Jingjing Liu, Juanying Peng, Fengxiang Huang, Xiaoqin Liu, and Ying Luo 309

Application in Cement Soil of Stabilizer in Silt Soft Soil of Wuxi in China ................................................................. Xiaohui Lu, Mingxuan Cui, Peifang Wang, and Bing Li 316

Resistance Appearance Design of Deep-sea Vehicle under Complex Seabed Terrain ................................................................. Sen Zhang, Lifan Sun, Tingting Yang, Shuzhong Song, and Keqi Xu 324

Design of Simulation Training System for Remote Sensing Large Data Processing of Natural Disasters ................................................................. Ying Wang, Liu Yang, Lan Zhao, and Yuanyuan Deng 328
Optimized Design on the Disc Stack of Lubricating Oil Separator Based on CFD Theory and Orthogonal Experiments ................................................................. 335

A Fractal Model for Fluid Leak Rates Through Contact Rough Surfaces under a Changing Fluid Pressure ................................................................. 343

Effects of Equal Channel Angular Extrusion Assisted by Ultrasonic and Subsequent Heat Treatment on Tribological Properties of 65Mn for Marine Vessels 350

Thermal Characteristics of Aluminum Conductor Composite Core ................................................................................................................................. 356

MARINE SCIENCE AND CHEMISTRY

Ion Adsorption of Rice Straw to Marine Heavy Metal Polluted Waste Water ................................................................. 359

Effect of Dispersants on Bio-degradation of Marine Spilled Oil ................................................................................................. 364

Cyclostratigraphy under the Control of Orbital Periods: A Case Study of the Late Ordovician-early Silurian Strata 369

Influence of Straw Incineration Sediments on Heavy Metal Accumulation in Marine Organisms ... 375

Analysis and Evaluation of Tetrodotoxin in Coastal Aquatic Products of Zhejiang Province................................................................................................. 380

The Asymmetric Synthesis of Furanoseterterpene from Marine Natural Products ........................................................................................................ 386

A Trypsin from Euphausia Pacifica (TEP B): Functional Groups and Effects of Metal Ions .................. 392

Recognition Method of Fish Image with Dynamic Deformation Based on Depth Learning Network Model ................................................................................................. 397

Establishment and Application of the Ideal Model to the Milankovitch Cycle: A Case Study of Well Y9 in the Northern Yunnan-Guizhou Area ........................................................................................................ 402

Influence of Oceanic Climate on Flow and Heat-transfer Capability of R410A Cooling Medium Finned Tubular Heat Exchanger ................................................................. 409

Preparation of Polymeric Adsorbent and Study of Its Adsorption of Heavy Metal Ions in Water ... 414

Spectrum Features Analysis of Ocean Wind and Wave Based on Fast Fourier Transform Algorithm ........................................................................................................ 418

PORT ENGINEERING

Experimental Study on Corrosion Resistance of Carbon Fiber Reinforced Concrete for Sea Crossing Bridge ................................................................................................................................. 423

Durability of Concrete Bridge Structure under Marine Environment ................................................................................................................................. 429

Feature Analysis and Control Method of Seepage Deformation of Rock and Soil in Port and Coast 436

Zhihui Cheng

Xiaofei Wang and Yongchang Yu

Jun Shu, Zhangyan Chen, Chenghong Xu, and Wei Liu

Qing Luo and Jinping Li

Chengcheng Han, Xiaojun Zhang, Le Li, Leiming Fu, Yutao Liu, Zhaoye Wang, Yifei Chen, and Chunxia He

Jun Lang, Tingshan Zhang, Haihua Zhu, Jianli Zeng, and Xing Liang

Si Chen, Zhongyong Yan, Xuehui Gao, and Jiaqi Chang

Sichang Wang, Dongyan Liu, and Zijian Wang

Zhiguo Zhao, Guangqin Peng, Mengqi Feng, and Jinguo Liu

Ming Liu, Liquan Wang, Hengxu Liu, Xingwang Ji, and Jun Liu

Xiaofei Wang and Yongchang Yu

Jun Lang, Tingshan Zhang, Haihua Zhu, Jianli Zeng, and Xing Liang

Shaojun Zhang, Wanqing Wu, Qinggong Zheng, and Mingyu Wang

Jun Lang, Tingshan Zhang, Haihua Zhu, Jianli Zeng, and Xing Liang

Xue Zhao and Shihai Yang

Peng Xiang, Zhiqiang Wu, Wentao Niu, Youyin Ye, and Mao Lin

Jun Shu, Zhangyan Chen, Chenghong Xu, and Wei Liu

Jun Shu, Zhangyan Chen, Chenghong Xu, and Wei Liu

Yunfang Liu and Zihong Zhang
Fire Resistance of Steel Bridge Considering Damage of Marine Environment ................................................................. Yuze Li and Fenghui Dong 442
Calculation and Analysis of New Taxiing Modes on Aircraft Pollutant Emissions in Coastal Airports of China .................. Wujun Pan, Youjun Ye, Xiaolin Li, Qingyu Zhang, Zhiwei Zhang, and Xin Lai 448
Efficiency Evaluation of LCL Transshipment at Port Railway Container Intermodal Terminal ........................................... Quanlun Wei, Yue Xu, Chaoyang Li, and Yi Zhang 456
The Evaluation of Navigation Conditions in Zhoushan Qushan Port ............................................................................ Jianxiang Qi, Chao Xu, and Wanzheng Ai 465
Fault Diagnosis Method of Exhaust System of Port Vehicle .............................................................................................. Wujun Ji and Bing Li 469
Experimental Study on Dynamic Characteristics of Marine Soft Clay in North China .................................................. Yu Zhao, Xueling Du, Baolin Xiong, and Deying Zhang 474
Improved Fault Petri Nets of Unmanned Seafloor Drilling Based on Traces Transition ................................................... Jianjian Yang, Zhiwei Tang, Zirui Wang, Xiaolin Wang, Qiankun Huang, and Miao Wu 479
The Investigation of the Morphology and Failure Types of Pre-placed CBN on Cu-Ni-Sn-Ti Bonded to Steel by Laser Process ................................................................................................................... Xufeng Zhao, Tianbiao Yu, Yu Zhao, Yongliang Zhang, Xue Sun, Zhelun Ma, Ming Li, and Tianqian Zhang 486
Real-time Rendering Technology of Large-scale Underwater Scene on Web Terminal ...................................................... Ziwen Zhang, Yijun Liu, Peichao Yang, Wujun Ye, Shaowei Weng, Tie Liu, and Yang Li 490
Design and Research of Ship’s Intelligent Monitoring System in Wireless Network Environment ................................... Jun Yang and Fang Wei 495
3D Finite Element Analysis of Ocean Strengthened Side Prestressed Pier by ANSYS ....................................................... Liuying Sun, Wei Xie, and Kedong Tang 499
Virtual Reality of 3D Digital Factory Based on Coastal Environment .......................................................................... Xiaohui Wang 503
Design of Parallel Braking Control System for Port Hybrid Electric Vehicle ................................................................. Zhongwei Zhang 513
Large Hoisting Machinery Wheel Mechanism and Walking System for Seaport Wharf .................................................. Hongjuan Li, Gening Xu, and Youshan Gao 520
Design of Digital Brake Control System for the Navigating of Amphibious Armored Vehicles .................................... Yaogang Zheng and Shaona Liu 526
Control Method of Differential Power Steering for Port Locomotive Obstacle Avoidance under Emergency ................. Jie Tian, Changming Liu, and Ning Chen 531
Container Ship Stowage Based on Monte Carlo Tree Search ............................................................................................ Ning Zhao, Yuechao Guo, Tianyu Xiang, Mengjue Xia, Yifan Shen, Chao M 540
Experimental Investigation on GCr15 Steel for Marine Vessels Treated by Ultrasonic Assisted Equal Channel Angular Extrusion ........................................................................................................ Xuefei Wang and Yongchang Yu 548
Control and Decision Making for Ocean Tracking with Multiple Underwater Vehicles ................................................. Shaowei Zhang and Chen Li 552
Design of Effectiveness Evaluation System for Shipborne Unmanned Reconnaissance Aircraft .................................... Tianyi Gu and Yunxiang Chen 565
Laser Cladding Ti Coated CBN/CuSnTi Alloy on Steel for Grinding Tools of Ocean Ship ................................................. Xufeng Zhao, Tianbiao Yu, Yu Zhao, Yongliang Zhang, Lin Yang, Shengxin Jiang, and Wanshan Wang 571
Modularized Control System Design of Underwater Vehicle for Submarine Cable Inspection ...................................... Sen Zhang, Lifan Sun, Longtai Fan, Shuzhong Song, and Zhonghua Li 579
Optimal Design of Microstrip Bandpass Filter in Ultra-wideband (UWB) Wireless Communication for Ship Based on Distributed Algorithm ............................................................ Aiyun Zhan, Yong Hu, and Meng Yu
Parameter Analysis of Dynamic Seal of Deep-sea Motor Based on Response Surface Method

590

Yi Zhang, Xiaodong Zhang, Lin Yang, and Xin Yu

OCEAN INFORMATION SCIENCE

Segmentation of Sonar Image on Seafloor Sediments Based on Multiclass SVM

597

Jing Chen and Su Zhang

Simulation of Ocean Environmental Corrosion and Analysis of Visual Communication Effect

603

Songchin Chung, Yufu Chen, and Chujun Yang

Application of Borehole Camera Technology in Fractured Rock Mass Investigation of a Submarine Tunnel

609

Zengqiang Han, Chuanying Wang, Sheng Hu, and Yiteng Wang

3D Reconstruction of Submarine Landscape Ecological Security Pattern Based on Virtual Reality

615

Yong Su and Zhiheng Wang

Effectiveness Evaluation of UAVs to Detect Maritime Targets in Marine Environment

621

Tianyi Gu and Yunxiang Chen

On-line Monitoring Research of Seafood Quality Safety Based on Image Monitoring

627

Yingjie Song, Cuicui Lyu, and Wen Guo

Classification Method of Marine Tourism Resource of Least Square Support Vector Machines Based on Particle Swarm Algorithm

632

Huali Xu, Maosheng Fu, and Chaochuan Jia

Design of Dynamic Automatic Control System for Mariculture Water Quality under Internet of Things Environment

637

Su Zhang and Jing Chen

Simulation of Impact Stability Test Model in Underwater Coal Mining of Dam

642

Feng Zhang, Zhengyi Ti and Aiming Zhang

Workflow Task Scheduling Algorithm for Marine Environment Data Processing under Multi-core Computing Environment

646

Yang Shen, Deyu Qi, Naqin Zhou, and Xinyang Wang

Noise Reduction Method of Adaptive Wiener Filtering for Ocean Remote Sensing Image

651

Caihong Tang

Optimization Design of Marine Collective Engineering Management System with BS Architecture Based on Big Data

656

Xinyu Zhao

Innovative Design of Marine Resources Database System Based on Fuzzy Cluster Analysis

662

Yuanqiang Lian

Deep Intrusion Data Mining Method Foreship Monitoring Network under Cloud Computing

668

Zhiwen Yang and Haodong Zhou

Optimization of Intelligent Fusion Model for Ship Target Image Features in Cloud Computing Environment

673

Xianwen Zhu

Efficient Cleaning Method of Low Quality Marine Data in Large Data Environment

679

Guiyuan Zhao and Laijun Lu

Multi-point Digitalization Research of Hull Plate Based on Visual Communication of Hull Information

685

Hongmin Zhang

Optimization of Maritime Emergency Materials Allocation Based on Network Reliability

691

Wei Wang, Li Huang, and Xuesong Zhang

Intelligent Recognition Method of Micro Image Feature Recognition in Large Data Environment

697

Detian Huang

Dynamic Migration Algorithm of Marine Big Data in Cloud Computing Environment

706

Jianfeng Cui

Multi-objective Optimization of EREV Control Strategy with Pointer Hybrid Optimization Algorithm

713

Qingyong Zhang, Weiping Lin, Yaru Wang, and Zhenfei Lu
Noise Reduction and Recovery Algorithm for Underwater Distorted Image ........................................ Pu Han and Yibo Han .......................... 720

Chart Symbol Recognition Based on Computer Natural Language Processing ........................................ Xiaofeng Zhang .......................... 724

Quantitative Analysis of the Impact of Information Loss Rate on Internet Word-of-mouth Transmission ....... Lei Wang, Ting Yi, and Yanchao Ren .......................... 729

Design of Two-dimensional Visualization System for Embedded Marine Environment Spatial Data .............. Li Yan .......................... 735

System Dynamics Simulation of Information Diffusion Strategies for Typhoon Disasters: A Case from China Coastal Area ................................................................. Zufeng Zhong .......................... 741

Sustainable Development of Typhoon Prone Coastal Areas Based on SD Model ...................................... Zufeng Zhong, Shaofei Yang, and Yaqing Duan .......................... 754

---

SHIPPING INDUSTRY

Design of Mobile Interactive Terminal System for Ship’s Remote Wireless Scheduling .......................... Zhan Wei, Xiang Xiao, and Pei Pei .......................... 770

The Localization Method for Ship Network Nodes Based on High Performance Matching of Multi-pattern String TMWM ................................................................................. Hejun Zhu and Liehuang Zhu .......................... 776

Feature Segmentation for Blurred Edge of Ship Image Based on Depth Learning ................................. Jun Shu, Zhangyan Chen, and Chenghong Xu .......................... 781

Inventory Control Method of Reverse Logistics for Shipping Electronic Commerce Based on Improved Multi-objective Particle Swarm Optimization Algorithm .............. Wei Yang, Qianglai Xie, and Ming Li .......................... 786

A General Sediment Carrying Capacity Formula and Its Analysis .......................................................... Hongsheng Cao, Xishan Pan, Yan Wang, Chunhui Li, and Yifeng Zhang .......................... 791

Effects of Leadership Style on Job Satisfaction and Intention to Stay in Shipping Industry ........................ Chialing Yao and Paichin Huang .......................... 796

Diversification Business Performance Evaluation of Shipping Industry in China ................................. Paichin Huang and Chialing Yao .......................... 802

The Operation Evaluation of China’s Marine Industry Technology Innovation System .......................... Tuochen Li, Dongri Han, Yingying Ding, and Luyu Zhang .......................... 807

Optimal Design of Node Distribution in Maritime Logistics Network of Fruit and Vegetable Supply Chain .................................................................................................................... Junnan Hua, Shuhong Gu, and Lei Zhang .......................... 814


Reliability Analysis of Logistics Network of Rail-sea Intermodal Transportation in Internet of Things Environment ................................................................. Zhengyi Zhang, Jianyou Zhao, Jian Cui, and Hai Nie .......................... 823

An Empirical Study of EVA on Capital Structure-based on New Energy Shipping Companies Data ................. Yu Shang .......................... 828

Applying the Data Envelopment Analysis to Discuss Performance Evaluation of Customer Relationship Management in Shipping Industry ......................................................... Chienta Chen, Ziping Chiang, Minliang Hsieh, and Xinggui Zeng .......................... 833

Adoption Research of the M-commerce Application Based on the Perspective of Supply Chain Management in Shipping Industry ......................................................... Kuo Gao and Xinxin Shao .......................... 839

Critical Success Factors in Marine Safety Management in Shipping Industry ........................................... Chienta Chen, Ziping Chiang, Yaobin Liu, and Xinggui Zeng .......................... 846
An Automatic Decentralized Control Method for Low Voltage Power for Ship’s Shore Power

Hui Peng, Raoxiang Gao, Xianyong Song, and Quanyu Shen

How Far Away Is China from Marine Technology Power? Evidence from the Marine Technology Survey in China

Like Yuan

Secure Access Control Method of Ship Electronic Information System

Huan Liu, Deyun Chen, Shuang Zhang, Chunxiang Zhang, and Viktor V. Krasnoprovshin

Ship Communication Network Intrusion Signal Identification Based on Hidden Markov Model

Weimin Wu

Fault Diagnosis of Underwater Vehicle and Design of Intelligent Self-rescue System

Sen Zhang, Longtao Fan, Jiwei Gao, Jie Xin Pu, and Keqi Xu

Analysis of Coupling Motion of Vertical Axis Tidal Turbine and Floating Carrier

Renwei Ji, Liang Zhang, Shuqi Wang, Yuquan Zhang, Qihu Sheng, and Chao Hu

The Static and Hydrodynamic Characteristics of the Ship’s Stem Angle Based on CFD

Junfeng Xin, Yongbo Zhang, Lei Wang, and Shixin Li

Structure and Parameter Identification of Ship’s Multi-motion State Model

Jing Bai, Zhizhong Mao, and Tiecheng Pu

Design of Dynamic Positioning System for Anti-interference Ships under Different Sea Conditions

Binglei Guan, Hailun Wang, and Yan Zheng

Ultra Wide band Positioning Technology for Accident Ships under Adverse Sea Condition

Kun Zhang, Chong Shen, Qian Gao, Liqiang Zheng, Haifeng Wang, and Zhuang Li

Precise Positioning System of Ship Interior Based on UWB Ultra Wide band Technology

Kun Zhang, Chong Shen, Qian Gao, Liqiang Zheng, Haifeng Wang, and Zhuang Li

Effect on the Ability of Unit Frequency Modulation and the Dynamic Characteristic of Regulative System by Ocean Ship Condenser Vacuum

Yi Zhang, Jianguo Jin, and Nan He

Risk Assessment Model of Vessel Collision Based on Fuzzy Decision

Xiaojing Wei

A SROID Algorithm Based Accurate Detection Method for Surface Rust Spots in Ocean Ship

Pengzhong Li, Liuxian Lin, and Yun Chen

RENWABLE ENERGY AND SUSTAINABILITY

Design of Management System for a Variety of Marine Renewable Energy

Hongtao Liu and Beiwei Li

Performance Analysis of a Sea Javelin Wave Energy Converter in Irregular Wave

Hengxu Liu, Jingtao Ao, Hailong Chen, Ming Liu, Maurizio Collu, and Jun Liu

Axial Low Cyclic Loading Control Method for Ocean Wind Turbine

Cong Cong

Challenging Issues over Sustainable Water Management in Coastal Area from China

Hongyun Han, Sheng Xia, and Ye Jiang

Tidal Power Generation Process Control Based on Differential Game Theory

Haoming Xu and Deyi Wang

Modeling Analysis of the Relationship between the Exploitation and Utilization of Marine Resources and the Sustainable Development of the Marine Economy

Shuai He, Ruirui Zhai, and Ying Pan

Mechanics Analysis of Drag Reduction in Hull Motion under Wind and Waves

Jing Lu and Hejin Zhang

Performance Analysis for a Ocean Wave Energy Harvester of Piezoelectric Cantilever Beam

Ming Liu, Hengxu Liu, Hailong Chen, Yuanchao Chai, and Liquan Wang

Design of Low Loss Filter for UWB Wireless Signal of Ship’s Multi-user under Wind and Waves

Yuye Zhu, Yanliang Bi, and Yunxian Zhang
Analytical Research on Energy Conversion Characteristic of a Kind of Point Absorber Wave Energy Device

Xiongbo Zheng, Shuanghong Zhou, Yong Ma, and Lingling Wang
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Advances in Sustainable Port and Ocean Engineering

As the important support of regional export-oriented economy, port has played a guiding role during urbanization process, and sustainable development of port may directly influence regional urban orientation, resource allocation and industrial structure layout, and it not only includes establishment of port urban system, formation of urban transportation network and coordination of general port layout planning, but also includes promotion of port function, formation of regional coordination mechanism, strengthening of regional cooperation, and emphasis of environmental protection etc.

Sustainable development is the inevitable choice that ports keep competitiveness. As for the existing international shipping center ports in the world, industrial policies concerning sustainable development have been formulated, including diversified investment policies, complete land resource utilization policies, to promote sustainable development through policy guidance; while on the other hand, comprehensive transportation ability, service level and value-added service volume of the port have been improving, port information construction has been strengthening, and port functions have been improving to wholly improve benefits, safety, environmental protection and market competitiveness etc., and economic development in surrounding area has been driving through port development, thus forming synergistic and co-developmental interactive pattern.

Ocean engineering, for the purpose of development, utilization, protection and recovery of ocean resources, is the newly building, rebuilding and expanding project of which the subject is located at seaward side of the coastline. It specifically contains sea reclamation, marine dam construction, man-made island, marine and subsea material storage facilities, sea-spanning bridge, subsea tunnel project, subsea pipeline, subsea cable (optical cable) projects, marine mineral resource exploration and development as well as ancillary projects, marine tidal power plant, wave power station, differential temperature power station etc. projects concerning development and utilization of ocean energy resources, large marine farms, salt pan and sea water desalination etc. multi-purpose marine projects, landscape exploitation projects etc.

In the 21st Century, it has been the critical period for development of marine affairs by coastal countries in the world and for realization of marine power. As it has turned out that development of ocean engineering manufacturing industry is the important path to realize marine power, and ocean engineering together with equipment project has been of increasing importance during marine development by each country, besides, development of ocean engineering has been the general international trend and the strategic choice of coastal countries.

The aim of the special issue is to provide a platform for scholars, researchers and engineers to share their achievements during long-term research on development of ocean engineering and equipment. In such special issue, there are 8 specific
topics classified as per the different contents of papers, including Ocean Science and Engineering, Inshore and Offshore Dynamic, Marine Geology, Marine Science and Chemistry, Port Engineering, Ocean Information Science, Climate Change and Environments, and Shipping Industry. The decisions on selection of qualified papers are strict based on originality, technical contribution, practical contributions and relevance. And the accepted papers must be formatted strictly according to the journal style.

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Charlie has interests and expertise in the general areas of surficial geology, coastal and marine geomorphology (including coastal classification), coastal/marine biophysical environments, exploration geochemistry, soils and weathering (regolith geology), coastal zone management and engineering applications or impacts on natural systems (including erosion control and shore protection), coastal hydrology including submarine freshwater and mineralized seeps, subaerial and marine structural geology, natural hazard mitigation in coastal zones, marine environments and coastal wetland protection and restoration, and remote sensing (e.g., land cover classification in coastal wetlands, advection-diffusion turbidity plumes in coastal waters, delineation of bottom types and sand resources), effluent disposal and pollution of wetlands and estuaries, water resources mapping and conservation, time series studies of wetland hydroperiod and soil moisture.

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