

# Table of Contents

The Study of Inter-basin Environmental Regulation Issues ——Based on the Collaborative Governance Perspective	1
<i>Xu Geng</i>	
The building dynamic simulation software ODESSE (Optimal DESign for Smart Energy):analysis and suggested improvement	6
<i>Ginevra Balletto, Anselmo Casu and Alessandra Scalas</i>	
The Status of Water Resources in Taiwan Area and the Measures to Promote the Sustainable Development	11
<i>Chien-Cheng Lo</i>	
The System Innovation of Environmental Regulation: Voluntary Environmental Agreements	15
<i>Huayun Liu</i>	
Energy Optimization of Chiller Plant with Branch and Bound Method	20
<i>Chunwei Chen, Yuwei Lin and Fongzhi Chen</i>	
Using HAZOP and FTA to Analyse Security Vulnerability of Web Application and Infrastructure	26
<i>Pumisake Snamchaikul and Thitinan Phanrattanachai</i>	
The first deployment of DGT/DET for assessment of metals in sediment pore water at Songkhla Lake, Thailand	31
<i>Siriporn Pradit, Yue Gao, Aekkarak Faiboon, Mansawan S. Pattarathumrong, Willy Baeyens and Martine Leermakers</i>	
Improvement of the resolving power of ion mobility spectrometers: A simulation study	36
<i>Frank Gunzer</i>	
Study of Increasing Lipid Production from Reused Medium for <i>Ankistrodesmus</i> sp. Culture	41
<i>Katesuda Sukkrom</i>	
A Fast Attack against a Smart Meter Authentication Protocol	46
<i>Nelson Uto, Bruno Alves Pereira Botelho, Rafael De Simone Cividanes, Danilo Yoshio Suiama and Jos éFrancisco Resende Da Silva</i>	
Numerical Study of Passive Thermal Management of a Cylindrical Lithium-ion Battery	51
<i>Wei Tong, Erik Birgersson, Arun S. Mujumdar and Christopher Yap</i>	

Enhancement of Electrokinetic Power Generation by Surface Treatment on a Porous Glass <i>Yanmei Jiao, Chun Yang, Yuejun Kang and Kar Cherng Hon</i>	56
A Research on Position Shift Pedestrian Image Detection using Visual Words Selected Method <i>Xingguo Zhang, Kazuki Saruta, Yuki Terata and Guoyue Chen</i>	61
The Common Network Attack Model Based On Interval Temporal Logic <i>Qinglei Zhou, Xiyue Chen and Weijun Zhu</i>	66
Dynamic analysis of supporting structure of linear Fresnel solar concentrator through FEM, OOP C++ and AutoCAD <i>Silvia Caroline, Tiago Freires and Raimundo A. Menezes Junior</i>	72
Content Based Image Retrieval (CBIR) of Face Sketch Images Using WHT Transform Domain <i>Wajdi Besbas, Mohamed Artemi and Rawad Salman</i>	77
The Evaluation of Greenhouse Gases Generation from activities and services in car-service centers: A case study of Kitpaisarn Honda Cars Co.,Ltd. <i>Sayam Aroonsrimorakot and Phitak Siriwong</i>	82
Wireless Load Control Device using GSM module <i>Sarinee Ouitrakul and Sirichai Wattanasophon</i>	87
Garbage Collection Robot on the Beach using Wireless Communications <i>Sirichai Wattanasophon and Sarinee Ouitrakul</i>	92
Restoration and Conservation of Ecological System, Way of Life, and Local Wisdom of Mangrove Forest Community <i>Nithipattara Balsiri</i>	97
Study of process parameters of Biodiesel production from Cottonseed oil <i>Ajaygiri K. Goswami and Ghyas Usmani</i>	102
Organizational Features and Challenges of the US EPA <i>Liguang Liu</i>	106
Screening and characterization of the bacteria which can produce flocculants and degrade of phenol <i>Wenqiang Wei, Jingjia Zhang, Wenda Dong, Hongna Guo, Junwei Diao and Cuiyan Wang</i>	111
System operational costs reduction with non-conventional reactive power sources <i>Edward Mc Garrigle and Paul Leahy</i>	115
Paper-folding and digital systems: a new approach to architectural logic and structural design <i>CALRETAS, S lvia Edite Marcelo, KONG, Mário Say Ming and JANUÁRIO, Pedro</i>	120

<i>Miguel Gomes</i>	
Geo-Located IT Assets Management :The Case of University of Sharjah <i>Najla Al Bannai, Abeer Al Bannai and Oualid (Walid) Ben Ali</i>	125
Access Circuit Design for High Isolation and High Power Co-channel Communications <i>Qiao Huang, Zhengxin Ma, Yuhan Wang and Xiaowen Shu</i>	131
Inverse Channel Estimation Based On Adaptive Inverse Control <i>Ge Liu, Zhengxin Ma, Yuhan Wang and Xiaowen Shu</i>	136
A method of PCMA based on subsection weighting process for the helicopter satellite communication system <i>Zijian Shi, Yuhan Wang, Zhengxin Ma and Zhang Wei</i>	141
Current Policy and Challenges of Energy Utilities in Taiwan <i>Ju-Yin Chen</i>	146
Research and Implementation on e-Learning System based on EGL <i>Xiaomei Li, Yan Xue and Bo Song</i>	151
Numerical simulation of plume motions for cooling tower in an inland nuclear power plant <i>Chunlai Tian, Shan Zhou and Liyong Han</i>	157
Biopolymeric Chitosan Ligand Produced from Snail Shell as the Ligand Molecule for Chelation of Zinc (II) Metal Ion in Waste Water <i>V.N OKONKWO</i>	162
Analysis of alternare frigerants to HCFC-22 <i>Qiaolian Feng, Yanfei Li, Zhiyin Tang and Qingzhi Zhang</i>	168
Does Phosphate Restrain Reactivity of Salt Cake from Secondary Aluminum Production? <i>Xiaolan Huang and Thabet Tolaymat</i>	173
Mitigation Alternatives for Environmental Impacts of Aircraft Auxiliary Power Units <i>Ramazan ATILGAN and Önder TURAN</i>	179
Author Index	185