

2014 IEEE 18th International Conference on Computer Supported Cooperative Work in Design

(CSCWD 2014)

**Hsinchu, Taiwan
21-23 May 2014**



IEEE Catalog Number: CFP14797-POD
ISBN: 978-1-4799-3777-6

Table of Contents

Collaboration technology applications in logistics and transportation

<u>An Artificial Intelligence Approach to Calculate the Capacity of Bulk Cargo Terminal</u>	1
<i>Bingli Yan and Qiang Zhou</i>	
<u>A Collaborative Production Model for Products with Components of Different Colors</u>	6
<i>Wen-Jing Guo, Wenfeng Li, Ye Zhong and Yunrui Li</i>	
<u>A Tabu Search Algorithm with Variability Cluster Grouping for Muti-depot Vehicle Routing Problem</u>	12
<i>Yongle He, Weidong Miao, Rong Xie and Yan-Jun Shi</i>	
<u>Agent-based Simulation for Order Selection Strategy in Collaboration Process of Supply Chain</u>	18
<i>Cancan Zhao and Junjiang Qiu</i>	
<u>A Multi-Layer Architecture Proposal for Conducting Trains Employing CBR</u>	23
<i>André Pinz Borges, Osmar Dordal, Denise M. V. Sato, Fabrício Enembreck, Bráulio Ávila, Edson E. Scalabrin and Richardson Ribeiro</i>	
<u>Logistics Scheduling Based on Cloud Business Workflows</u>	29
<i>Rongbin Xu, Xiao Liu, Ying Xie, Futian Wang, Cheng Zhang and Yun Yang</i>	
<u>Solution Space Generation for Disassembly Research on Liquid Crystal Displays Televisions</u>	35
<i>Guoqing Jin, Weidong Li, Sheng Wang and Xin Lu</i>	

Collaboration platforms, software tools, and services (I)

<u>Structure Optimization and Casting simulation of Engine Trestle Based on CAE Technology</u>	41
<i>Fei Mu, Mingxia Wu, Yi Yang, Gang Yang and Deqiang Yin</i>	
<u>An Effective Demonstration for Group Collaboration Based on Storyline Visualization Technology</u>	47
<i>Qiang Lu, Xiang-Yuan Zhu, Li Liu and Shu-Bo Cao</i>	
<u>SISS: Extending Semantic Interoperability to Support Collaborative System Development and Execution</u>	53
<i>Frâncila Neiva, José Maria David, Rita Suzana Maciel, Regina Braga and Fernanda Campos</i>	
<u>Challenges on Designing a Distributed Collaborative UML Editor</u>	59
<i>Carlos Eduardo Barbosa, Glauco Trindade, Vanessa Janni Epelbaum, Juliana Gomes Chang, Jonice Oliveira, José A. Rodrigues Nt and Jano Moreira De Souza</i>	
<u>Evidence-Driven Quality Evaluation Model of Collaboration Software Trustworthiness</u>	65
<i>Wenhe Li, Tie Bao, Lu Han and Shufen Liu</i>	
<u>A Multiagent Approach for Collaborative Design of Workflows in Supply Chains</u>	71
<i>Fu-Shiung Hsieh and Jim-Bon Lin</i>	

Collaboration platforms, software tools, and services (II)

<u>An Integrated Cloud Platform for Cooperative Smart Asset Management in Urban Flood Control</u>	77
<i>Gangyan Xu, George Q. Huang, Ji Fang and Xuan Qiu</i>	
<u>We4Fit: A Game With a Purpose for Behavior Change</u>	83
<i>Carla Pereira, Gustavo Figueiredo, Maria Gilda P. Esteves and Jano M. de Souza</i>	
<u>Using a Personal Assistant for Exploiting Service Interfaces</u>	89
<i>Marcio Fuckner, Jean-Paul Barthès and Edson Emílio Scalabrin</i>	
<u>FOLKUS-SD: Bulding Folksonomies From Source Code in Collaborative Software Development</u>	95
<i>Franciele Beal, Gregory Wanderley, Cesar A. Tacla, Milton Ramos and Emerson Paraiso</i>	
<u>A Modeling: Internetware-based Dynamic Architecture Evolution Applying to SOA</u>	100
<i>Jian Wang, Qimin Peng and Xiaohui Hu</i>	
<u>An Application Development Environment for Collaborative Training Sand Tables</u>	106
<i>Jianping Shen, Yinsheng Li and Shenglong Mi</i>	

Communication Support Systems for Collaborative Work

<u>A Novel Active Website Fingerprinting Attack against Tor Anonymous System</u>	112
<i>Gao Feng He</i>	
<u>A Multi-queue Algorithm for DDoS Attacks</u>	118
<i>Fabian Nkemneme and Ruizhong Wei</i>	
<u>A Data Anonymous Method based on Overlapping Slicing</u>	124
<i>Jing Yang, Ziyun Liu, Yue Yang and Jianpei Zhang</i>	
<u>Dealing with Incomplete and Uncertain Context Data in Geographic Information Systems</u>	129
<i>Jonathan Frez, Nelson Baloian, Gustavo Zurita and Jose A. Pino</i>	
<u>Synchronous Interaction for Supporting Remote Multilingual Brainstorming</u>	135
<i>Claude Moulin, Kenji Sugawara, Yuki Kaeri and Shigeru Fujita</i>	
<u>Visualization of Turn-taking and Mental Workload in Collaborative Working Environment</u>	140
<i>Katsunori Oyama, Hiroyuki Watanabe and Atsushi Takeuchi</i>	
<u>Modeling for Cooperation and Coordination within Structured and Complex Situations like Unknown Emergency Situations</u>	146
<i>Dirk Söffker, Olga Muthig and Xingguang Fu</i>	

Technology Management and Data Analysis for Cooperative Work

<u>Innovation Values in the Radio Frequency Identification Device Industry</u>	153
--	-----

<i>Cheng-Chin Tsao, Pei-Shu Fan, Chin-Yuan Fan and Pei-Chann Chang</i>	
<u>Computerized Automatic Miniature Unmanned Bird- exclusion Vehicle</u>	159
<i>Pei-Shu Fan and Lan-Fang Kao</i>	
<u>Patenting of China Medical Imaging Market</u>	164
<i>Sheng-San Cheng and Shun-Yi Hsueh</i>	
<u>Medical Image -Ultrasonic Image Patent Map</u>	169
<i>Sheng-San Cheng and Pei-I Liu</i>	
<u>The Practice of Non-patent References (NPR) Analysis to Evaluate the Impact of Academic Journals</u>	175
<i>Te-Yi Chan, Chin-Yuan Fan, Yi-Ching Liaw and Cheng-Hsin Chiang</i>	
<u>Patent Map of X-ray Medical Image -US and Worldwide Patent Analysis</u>	181
<i>Sheng-San Cheng, Yun-Han Chang and Chung-Min Wu</i>	
<u>Multi-feature Fusion for Image Segmentation based on Granular Theory</u>	186
<i>Rong Yin, Min Liu, Feng Zhang and Wei Wu</i>	

Collaboration technology applications in aerospace, automotive, and manufacturing

<u>Development of Rapid Prototyping Slicing Software Based on STL Model</u>	191
<i>Xiaodi Pan, Kun Chen and Dingfang Chen</i>	
<u>Speak with the Annotator: Promoting Interaction in a Knowledge-Based CAD Environment Built on the Extended Annotation Concept</u>	196
<i>Jorge Camba, Manuel Contero and Gustavo Salvador-Herranz</i>	
<u>A Comparative Simulation on Corrective Maintenance Strategies in Cellular Manufacturing Considering Worker Collaboration</u>	202
<i>Junjiang Qiu, Xiaodong Zhang, Cancan Zhao and Yang Hu</i>	
<u>Integration of Process Monitoring and Inspection Based on Agents and Manufacturing Features</u>	208
<i>Changqing Liu, Yingguang Li and Weiming Shen</i>	
<u>Hybrid Harmony Search for the Flowline Manufacturing Cell Scheduling Problem</u>	214
<i>Yazhi Li and Xiaoping Li</i>	
<u>Hypergraph Clustering-based Cloud Manufacturing Service Management Method</u>	220
<i>Lei Wu, Minggang He and Yanyan Han</i>	
<u>Multi-level Knowledge Representation and Retrieval of Complex Product Design Based on BOM</u>	226
<i>Gongzhuang Peng, Huachao Mao, Minghui Li and Heming Zhang</i>	

Collaborative E-commerce and E-governance

<u>Opportunity Cost Based Constraint Model for Transaction Credit Evaluation</u>	231
--	-----

<i>Yuanlin Chen, Yi Liu, Yueting Chai and Hongbo Sun</i>	
<u>A Method for Online Retail Sales Estimation Based on Semantic Features of Web Pages</u>	236
<i>Xiao Sun, Yi Liu, Yueting Chai and Hongbo Sun</i>	
<u>A Novel E-Invoice Framework towards Data-Oriented Taxation System</u>	242
<i>Hongyang Chu, Yueting Chai, Yi Liu and Hongbo Sun</i>	
<u>An Intelligent GA-nonparametric EWMA Sign Chart for Green Chain Management</u>	247
<i>Kuo-Ming Chao, Chen-Fang Tsai and Shin-Li Lu</i>	
<u>A Context-based Collaboration Supported Framework for E-commerce PaaS Platform</u>	253
<i>Zongshui Xiao, Wei He, Ting Li and Lizhen Cui</i>	

Collaborative Processing of Big Data

<u>TSIR: a Chinese Temporal Semantics Information Retrieval Based on MapReduce</u>	259
<i>Zhongmei Shu, Yayao Zuo and Yong Tang</i>	
<u>Data Mining for Privacy Preserving Association Rules Based on Improved MASK Algorithm</u>	265
<i>Haoliang Lou, Yunlong Ma, Feng Zhang, Min Liu and Weiming Shen</i>	
<u>Incremental FP-Growth Mining Strategy for Dynamic Threshold Value and Database Based on MapReduce</u>	271
<i>Xiaoting Wei, Yunlong Ma, Feng Zhang, Min Liu and Weiming Shen</i>	
<u>Application of Artificial Immune Systems Combines Collaborative Filtering in Movie Recommendation System</u>	277
<i>Alden Chang, Jhen-Fu Liao, Pei-Chann Chang, Chin-Hung Teng and Meng-Hui Chen</i>	
<u>An Augmented Map-Reduce Framework for Building Information Modeling Applications</u>	283
<i>Yi Jiao, Shaohua Zhang, Yin Li, Yinghui Wang, Baoming Yang and Liwu Wang</i>	
<u>A Big Data Cleansing Approach for n-dimensional RFID-Cuboids</u>	289
<i>Ray Y. Zhong, George Q. Huang and Qingyun Dai</i>	
<u>NORA: Network Oriented Resource Allocation for Data Intensive Application in Cloud Environment</u>	295
<i>Adeniyi Abdul, Rahat Iqbal, Anne James, Michael Odetayo and Nazaraf Shah</i>	

Data Analysis and Business Intelligence for Collaborative Systems in Service Industry (I)

<u>Integrating Meta-Path Selection with User-Preference for Top-k Relevant Search in Heterogeneous Information Networks</u>	301
<i>Shaoli Bu, Xiaoguang Hong, Zhaohui Peng and Qingzhong Li</i>	
<u>The Implementation of Global Logistic Services Using One-stop Logistics Management</u>	307
<i>Amy J.C. Trappey, Charles V. Trappey, Dennis W.T. Dai, Sandy W.C. Chang and Wang-Tsang Lee</i>	
<u>Using the Collective Intelligence of Sports Fans to Improve Professional Football League Customer</u>	313

Service

- Charles V. Trappey, Peter Smith, Shelby Trappey, Jasmine T.C. Tung and Lynn W.L. Chen*
[A K-anonymity Clustering Algorithm Based on the Information Entropy](#) 319
Ying Zhao, Jianpei Zhang, Yue Yang and Jing Yang
[A Study of Branding Experience Plazas: Strategic Marketing View](#) 325
Tsui-Yii Shih and An-Ni Chien
[The Role of Social Capital and Knowledge Sharing in Transformational Leadership Promoting Value Co-Creation – A Cross-Level Analysis](#) 330
Chan Hsiao, Yi-Hsuan Lee and Yi-Hsuan Li

Data Analysis and Business Intelligence for Collaborative Systems in Service Industry (II)

- [Prediction in Signed Heterogeneous Networks](#) 336
Li Pan
[The Design and Evaluation of an Auditory Navigation System for Blind and Visually Impaired](#) 342
Chun-Hung Yang, Sheue-Ling Hwang and Jan-Li Wang
[Understanding Customers Using Facebook Pages: Data Mining Users Feedback Using Text Analysis](#) 346
Hsin-Ying Wu, Kuan-Liang Liu and Charles V. Trappey
[Comparisons of Standby and Parallel Systems for Processing Times](#) 351
Mingchih Chen, Xufeng Zhao and Toshio Nakagawa
[Multi-phase Negotiation for Single-item Bidding](#) 354
Alberto Ayres Benicio, Ayslan Trevizan Possebom, Bráulio Coelho Ávila, Enembreck Fabrício and Edson Emílio Scalabrin
[Simulation and Verification of the Virtual Memory Management with MSVL](#) 360
Meng Wang, Zhenhua Duan and Cong Tian

Cooperative Work and Applications on Engineering Statistics

- [A Systematic Literature Review of Evaluation Methods for Health Collaborative Systems](#) 366
Luciana Pereira de Araújo, Carla Berkenbrock and Mauro Mattos
[Develop an Integrated Patent Quality Matrix for Investigating the Competitive Features among Multiple Competitive Patent Pools](#) 370
Yuhui Wang, Amy J.C. Trappey, Benjamin P. Liu and Tsai-Chieh Hsu
[Solving Quantile-based Stochastic Optimization Problems with Modified Stochastic Nelder-Mead Simplex Method](#) 374
Kuo-Hao Chang and Hou-Kuen Lu
[A New Lot Sentencing Method by Variables Inspection](#) 380

Chien-Wei Wu and Yen-Wen Chen

[Systematic Layout Planning in Human-System Interface an Evaluation of Alarm Displays With Spatial proximity for Accidents Diagnosis of Advanced Nuclear Power Plant](#) 384

Kang-Hung Liu and Sheue-Ling Hwang

[Cooperative Team Building by Data Clustering with Constraints](#) 390

Chao-Lung Yang, Maisyatus S Irfana and Febriliyan Samopa

[Statistical Characterization of Resistivity for Carbon Nanotube Buckypapers Produced by Filtering and Suspension](#) 396

Chi-Lung Kuo and Chih-Hsing Chu

Collaboration methods, mechanisms, and protocols

[Fault Tolerance Management in Collaborative Systems: Performance Comparison of Consensus Algorithms](#) 402

Fouad Hanna, Lionel Droz-Bartholet and Jean-Christophe Lapayre

[A Level Set Method for Structural Shape and Topology Optimization Using the Radial Basis Function](#) 408

Tao Gu, Hao Li, Li Zhang and Liang Gao

[A Framework for Exploiting Collaborative Traces](#) 414

Qiang Li, Jean-Paul Barthes and Marie-Hélène Abel

[Quantitative Model Verification in VANET based on Interval Probabilistic Timed Automata](#) 418

Qiang Li, Xiaoyan Wang and Shufen Liu

[Product Data Exchange of Complex Shape based on Parametric Curve](#) 423

Dejun Zhang, Fazhi He, Xiantao Cai, Xiaoxia Li and Yiqi Wu

[A Meta-Model for Crowdsourcing Platforms in Data Collection and Participatory Sensing](#) 429

Ana Luiza Dallora Moraes, Felipe Fonseca, Maria Gilda P. Esteves, Daniel Schneider and Jano M. de Souza

[A Cooperative Multi-Classifer Method for Local Area Meteorological Data Mining](#) 435

Shaohua Teng, Jihui Fan, Haibin Zhi, Wei Zhang, Dongning Liu, Xiao Chen and Xiufen Fu

Collaboration technology applications in business and administration

[Extended Economic Models for Information Systems Balance Theory](#) 441

Jianming Yong and Susan Finger

[A Case Study of N atura Campus Open Innovation Platform – A Collaborative Systems Verview](#) 446

XMarcio Geovani Jasinski, Carla Diacui Medeiros Berkenbrock and Luis Bernardes

[A Framework of Emergency Clinical Decision Support System based on MDA and Resource Model](#) 451

Lihong Jiang, Boyi Xu, Cheng Xie and Hongming Cai

[A Study of Student Behavior in Accepting the Blackboard Learning System: a Technology Acceptance Model \(TAM\) Approach](#) 457

Shu-Chiang Lin, Satria Fadil Persada and Reny Nadlifatin

[Think Twice Before Reposting It: Promoting Accountable Behavior on Sina Weibo](#) 463

Qi Wang, Tun Lu, Xianghua Ding and Ning Gu

[Positive Influence Dominating Set Games](#) 469

Guangyuan Wang, Hua Wang, Xiaohui Tao, Ji Zhang, Xun Yi and Jianming Yong

[How International information influence the investment of Chinese Services Enterprises in Taiwan](#) 474

Abdulaziz Al-Raisi, Saad Amin, Rahat Iqbal and Anne James

Depth-Sensor Based Product and Service Design

[Integrating Physiological and Psychological Techniques to Measure and Improve Usability: an Empirical Study on Kinect Applying of Health Management Sport](#) 481

Wei-Ying Cheng, Po-Hsin Huang and Ming-Chuan Chiu

[Service Dissatisfaction Detection and Service Recovery Design with a Case Study of Kinect Health Management Motion Sport Game](#) 487

Yi-Jie Chang, Po-Hsin Huang and Ming-Chuan Chiu

[Integration of Agent-based and Cloud Computing for the Smart Objects-oriented IoT](#) 493

Giancarlo Fortino, Antonio Guerrieri, Wilma Russo and Claudio Savaglio

Collaboration Technology Applications in Architecture, Engineering, and Construction

[Relationship between Quality and Payment in Crowdsourced Design](#) 499

Hao Wu, Jonathan Corney and Michael Grant

[A Parallel Level-set Based Method for Topology Optimization](#) 505

Tao Wu, Hao Xu, Wenqiang Hu, Yansong Zhao, Ying Peng, Lvjie Chen and Yu Fu

[A Collaborative Design Graphical Tool Based on Interactive Spaces and Natural Interfaces: A Case Study on an International Design Project](#) 510

Gustavo Salvador-Herranz, Manuel Bañó, Manuel Contero and Jorge Camba

[A Context-aware Disaster Response System Using Mobile Software Technologies and Collaborative Filtering Approach](#) 516

Nan Jing, Yijun Li and Zhao Wang

[Using a Collaboration Model to Classify Artifacts in Software Product Line for Collaborative Systems](#) 523

Cristiana Bispo, José David and Rita Maciel

[Investigating the Collaborative Support in CollabRDL: an Analysis Based on the 3C Model](#) 529

Edson Lucas, Daniel Schneider, Toacy Oliveira and Jano de Souza

Collaboration Technology Applications in Social Networks and Entertainment

- [An Automatic Questionnaire Survey Model Based on the Collective Message over the Internet](#) 535
Adam Hou and Yuh-Zong Chu
- [Covert Nodes Mining in Social Networks Based on Games Theory](#) 541
Atiao Yang, Yong Tang, Jiangbin Wang and Jieming Chen
- [Analyzing Sentimental Influence of Posts on Social Networks](#) 546
Beiming Sun and Vincent Ng
- [New Word Identification in Social Network Text based on Time Series Information](#) 552
Meng Wang, Lanfen Lin and Feng Wan

Collaborative Virtual Environments

- [A Simulation-based Study on the Influence of Knowledge Spillover on Mass Collaborative Network](#) 558
Yang Hu, Xiaodong Zhang, Chenjian Gong and Junjiang Qiu
- [Visualization and Filtering Awareness Information in Mobile Groupwares: an Action Research Approach](#) 563
Márcio José Mantau, Carla Diacui Medeiros Berkenbrock and Gian Ricardo Berkenbrock
- [Collaborative Evolution Process in MDArte: Exchanging solutions for information systems development among projects](#) 569
Rodrigo Salvador Monteiro, Geraldo Zimbrão and Jano Moreira De Souza
- [Manufacturing Capability Match and Evaluation for Outsourcing Decision-making in One-of-a-kind Production](#) 575
Chao Liu, Pingyu Jiang and Wei Cao
- [Soccer Tactics Analysis Supporting System Displaying the Player's Actions in Virtual Space](#) 581
Satoshi Gondo, Kasumi Tarukawa, Tomoo Inoue and Ken-Ichi Okada
- [A Study on the Computer Supported Communication Work in Virtual Product Design](#) 587
Weichen Chang
- [Design and Simulation of Intelligent Brake System Based on MATLAB and ADAMS](#) 593
Zhilin Xiong, Yanfang Yang, Xiaoqiang Guo, Yun Chen and Jiquan Hu

Collaborative Approaches in Healthcare Services and Systems

- [Development of Handheld Healthcare Information System in an Outpatient Physical Therapy Clinic](#) 599
Pei-Fang Tsai, I-Sheng Chen and Kevin Pothoven
- [RFID Reader Network Optimization for Hospital Management](#) 603
Chui-Yu Chiu, Po-Chou Shih, I-Ting Kuo and Cheng-Hsin Ke

<u>A Home Mobile Healthcare System for Wheelchair Users</u>	609
<i>Lin Yang, Yanhong Ge, Wenfeng Li, Wenbi Rao and Weiming Shen</i>	
<u>Designing Portable Solutions to Support Collaborative Workflow in Long-Term Care: a Five Point Strategy</u>	615
<i>Bhuvaneswari Arunachalan, Sara Diamond, Steve Szigeti, Derek Reilly, Fanny Chevalier, Anne Stevenz, Borzu Talaie and Maziar Ghaderi</i>	
<u>An Agent-based Collaborative Model for Orthopedic Outpatient Scheduling</u>	621
<i>Ta-Ping Lu, Pei-Fang Tsai and Ya-Chen Chu</i>	
<u>COOVADIS: A New Framework for Collaborative Diagnosis Approach of the Vascular System</u>	627
<i>María Aydeé Sánchez Santana, Marie-Laure Betbeder, Jean-Christophe Lapayre and Jaime Carranza Madrigal</i>	
<u>Using Participatory Design in the Construction of a Collaborative System</u>	633
<i>Luciana Pereira Araújo, Carla Diacui Medeiros Berkenbrock, Mauro Mattos and Eric Boeing</i>	

Collaborative computing (Clouds, Grids, and Web Services)

<u>SORC: Service-Oriented Distributed Revision Control for Collaborative Web Programming</u>	638
<i>Ahmad Sholehin Bin Sarib and Haifeng Shen</i>	
<u>A New Team Recommendation Model with Application in Social Network</u>	644
<i>Shaowen Hong, Chengjie Mao, Zhenxiong Yang and Hanjiang Lai</i>	
<u>A Study of Intents Resolving for Service Discovery</u>	649
<i>Cheng Zheng and Weiming Shen</i>	
<u>Hermes: On Collaboration across Heterogeneous Collaborative Editing Services in the Cloud</u>	655
<i>Huanhuan Xia, Tun Lu, Bin Shao, Xianghua Ding and Ning Gu</i>	
<u>Modeling the Interaction in Human-centric Wireless Sensor Networks</u>	661
<i>Sergio F. Ochoa, Alvaro Monares and José A. Pino</i>	
<u>Multivariate Quality Control Chart for Monitoring SLA of Workflow Application</u>	667
<i>Wenan Tan and Yong Sun</i>	
<u>A Budget and Deadline Aware Scientific Workflow Resource Provisioning and Scheduling mechanism for Cloud</u>	672
<i>Jiyuan Shi, Junzhou Luo, Fang Dong and Jinghui Zhang</i>	

Collaboration Theories and Methodologies

<u>A Design Pattern for Representing Workspace Awareness</u>	678
<i>Miguel A. Teruel, Elena Navarro, Víctor López-Jaquero, Francisco Montero and Pascual Gonzalez</i>	
<u>Version Storage in Collaborative Design System Based on Circular Linked List</u>	684

<i>You Song, Yunfeng Luo, Ye Zhang and Li Deng</i>	
<u>Research on Consistency Maintenance of the Real-time Image Editing System based on Bitmap</u>	689
<i>Shanshan Wang, Liping Gao, Chunxue Wu and Yicheng Yao</i>	
<u>A Component Quality of Service Modeling Method</u>	695
<i>Chengbang Zhu, Bing Li and Shufen Liu</i>	
<u>A Firing Sequence based Algorithm for Two-Sided Assembly Line Balancing</u>	700
<i>Ting-Kuo Peng</i>	
<u>Link Prediction Based on time-varied weight in co-authorship network</u>	706
<i>Shiping Huang, Yong Tang, Feiyi Tang and Jianguo Li</i>	
<u>New Service Development Model: A User Experience-Oriented Design</u>	710
<i>Ta-Sheng Lo, Hsiao-Lan Wei and Hsi-Peng Lu</i>	
Collaborative Energy Assessment and Management	
<u>Evaluating Renewable Energy Policies Using Hybrid Clustering and Analytic Hierarchy Process Modeling</u>	716
<i>Amy J.C. Trappey, Charles V. Trappey, Danny Y.C Wang, S.J. Li and Jerry J. R. Ou</i>	
<u>Computer-Supported Methodologies to Estimate the Eave-Effect of Building Energy Consumption</u>	721
<i>Wheyming Song, Grace Lin and Zih-Yi Wu</i>	
<u>Study on Unsteady Flow Collaborative Characteristics of Semi-open Impeller and Diffuser in Centrifugal Compressor</u>	727
<i>Rong Xie, Muting Hao, Liang Guan and Yan-Jun Shi</i>	
<u>Multi-objective Power Management on Smart Grid</u>	733
<i>Xian-Chang Guo, Chung-Shou Liao and Chia-Chi Chu</i>	
<u>Issues Affecting the Clean Development Mechanism (CDM): A Review</u>	738
<i>I-Hsuan Hong and Guillermo Nápoles Rodríguez</i>	
<u>Sustainable Product Design under Resource Scarcity</u>	743
<i>Yen-Ting Lin, Haoying Sun and Shouqiang Wang</i>	
<u>Author Index</u>	748