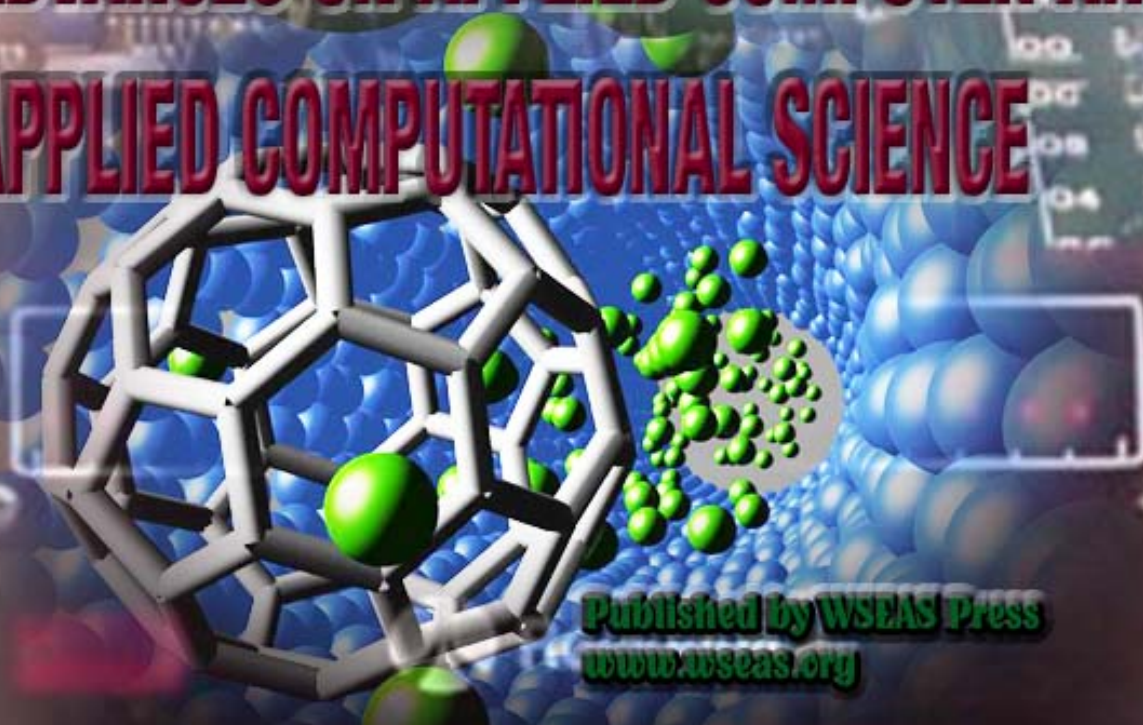


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# ADVANCES ON APPLIED COMPUTER AND APPLIED COMPUTATIONAL SCIENCE



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Proceedings of the 7th WSEAS International Conference on  
APPLIED COMPUTER & APPLIED COMPUTATIONAL SCIENCE (ACAGOS '08)

**Editors:**

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**Prof. S. Y. Chen, Zhejiang University of Technology, CHINA**

**Prof. Anping Xu, Hebei university of Technology, CHINA**

**Prof. Ming Li, school of Information Science and Technology, CHINA**



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## **Preface**

This book contains proceedings of the 7th WSEAS International Conference on APPLIED COMPUTER & APPLIED COMPUTATIONAL SCIENCE (ACACOS '08) which was held in Hangzhou, China, April 6-8, 2008.

We thank the China Jiliang University for the sponsorship . This conference aims to disseminate the latest research and applications in the afore mentioned fields. The friendliness and openness of the WSEAS conferences, adds to their ability to grow by constantly attracting young researchers. The WSEAS Conferences attract a large number of well-established and leading researchers in various areas of Science and Engineering as you can see from <http://www.wseas.org/reports>. Your feedback encourages the society to go ahead as you can see in <http://www.worldses.org/feedback.htm>

The contents of this Book are also published in the CD-ROM Proceedings of the Conference. Both will be sent to the WSEAS collaborating indices after the conference: [www.worldses.org/indexes](http://www.worldses.org/indexes)

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Expanded and enhanced versions of papers published in these conference proceedings are also going to be considered for possible publication in one of the WSEAS journals that participate in the major International Scientific Indices (Elsevier, Scopus, EI, ACM, Compendex, INSPEC, CSA .... see: [www.worldses.org/indexes](http://www.worldses.org/indexes)) these papers must be of high-quality (break-through work) and a new round of a very strict review will follow. (No additional fee will be required for the publication of the extended version in a journal). WSEAS has also collaboration with several other international publishers and all these excellent papers of this volume could be further improved, could be extended and could be enhanced for possible additional evaluation in one of the editions of these international publishers.

Finally, we cordially thank all the people of WSEAS for their efforts to maintain the high scientific level of conferences, proceedings and journals.

We are sure that this volume will be source of knowledge and inspiration for other academicians, scholars, advisors and industrial practitioners and will be considered as one more brilliant edition of the WSEAS related with a brilliant conference sponsored by China Jiliang University.



# Proceedings of the 7th WSEAS International Conference on APPLIED COMPUTER & APPLIED COMPUTATIONAL SCIENCE (ACACOS '08)

## Table of Contents

<b>Plenary Lecture I: Inverse Acoustic and Electromagnetic Obstacle Scattering: Theory and Numerics</b> <i>Jun Zou</i>	19
<b>Plenary Lecture II: Fractal Time Series and Tele-Traffic</b> <i>Ming Li</i>	20
<b>Plenary Lecture III: Multimedia system – 3d Interactive Model Web (3DIMW)</b> <i>Rong-Jyue Fang</i>	21
<b>Plenary Lecture IV: Analytical Synthesis Method:A New Circuit Design Method for Arbitrary Requirements</b> <i>Chun-Ming Chang</i>	22
<b>Plenary Lecture V: Real-time In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions</b> <i>LIN Feng</i>	23
<b>Plenary Lecture VI: Obstacle Avoidance for Kinematically Redundant Manipulators Based on an Improved Problem Formulation and Two Recurrent Neural Networks</b> <i>Jun Wang</i>	24
<b>Survey: Odor Source Localization</b> <i>Ahmet Kuzu, Seta Bogosyan, Metin Gokasan</i>	25
<b>Nonlinear Finite Element Analysis on the Steel Frame with Semi-rigid Connections</b> <i>Wang Xinwu</i>	31
<b>A Simulation of Stone Skipping Using Physically Based Modeling</b> <i>Joo-Young Do, Namkyung Lee, Dongkyu Kim, Kwan Woo Ryu</i>	36
<b>Extremum problems with unidimensional constraints</b> <i>Oltin Dogaru, Constantin Udriste, Cristina Stamin</i>	41
<b>Optimal determination of partial ratios of three-step helical gearboxes with first and third step double gear-sets for getting minimal gearbox length</b> <i>Vu Ngoc Pi</i>	50
<b>The Numerical and Experimental Study of Radiation Pattern from Various Shaped Reflectors Base on PO and PTD Method</b> <i>Vanvisa Thavirot, Piyaporn Krachodnok, and Rangsan Wongsan</i>	54

<b>Genetic Algorithm Optimization of Fuel Consumption in Compressor Stations</b>	<b>60</b>
<i>B. Fahimnia, R. Molaee, M. Ebrahimi</i>	
<b>Assessing the Effects of E-quality and E-satisfaction on Website Loyalty</b>	<b>69</b>
<i>Yang, Hao-Erl</i>	
<b>UCSMdess: ubiquitous computing service model based on D-S evidence theory and extended SPKI/SDSI</b>	<b>75</b>
<i>Daoqing Sun, Yishu Luo, Qiyong Cao</i>	
<b>A study on optimal calculation of partial transmission ratios of four-step helical gearboxes with second and fourth step double gear-sets</b>	<b>81</b>
<i>Vu Ngoc Pi</i>	
<b>Risk Mitigation and Management Scheme Based on Risk Priority</b>	<b>86</b>
<i>Basit Shahzad Sarah Afzal Safvi</i>	
<b>Framework and architectural style metrics for component based software engineering</b>	<b>92</b>
<i>R.Thirumalai Selvi, Meenakshi.R, N.V. Balasubramanian, George.T.Manohar</i>	
<b>Optimal meshes embedding of Mobius cubes</b>	<b>99</b>
<i>Chang-Hsiung Tsai, Jheng-Cheng Chen, Yung-Chun Lai</i>	
<b>Alternative Middleware for Efficient XML Data Communications on Networks</b>	<b>106</b>
<i>Xu Huang, Dharmendra Sharma</i>	
<b>Scrutinizing Behavior of a Dynamic Framed Slotted Anti-collision Algorithm for RFID Systems</b>	<b>112</b>
<i>Xu Huang</i>	
<b>UCAIPM: Ubiquitous Computing Agile Information Protection Mechanism</b>	<b>116</b>
<i>Daoqing Sun, Qiyong Cao</i>	
<b>Ontology matching based on Probabilistic Description Logic</b>	<b>122</b>
<i>Zhiming Li, Shanping Li, Zhiyu Peng</i>	
<b>Development of Fault Diagnosing System for Air-conditioning Systems</b>	<b>129</b>
<i>Ming-Tong Tsay Chia-Hung Lin</i>	
<b>Automated Data Collection for Usability Evaluation in Early Stages of Application Development</b>	<b>135</b>
<i>Yonglei Tao</i>	
<b>Aspect Design Pattern for Non Functional Requirements</b>	<b>141</b>
<i>Fazal-E-Amin, Ansar Siddiq, Hafiz Farooq Ahmad</i>	
<b>A weighted curvature flow for planar curves</b>	<b>146</b>

*Sheng-Gwo Chen, Mei-Hsiu Chi, Ying-Jen Lin And Jyh-Yang Wu*

**WSRP-Enabled Distributed Data Mining Services Deliverable over a Knowledge-Driven Portal 150**

*Vasile Georgescu*

**Quick sampling method for cubic Bezier curves by chordal error 156**

*Sheng-Gwo Chen*

**A New Improved Secure Password Authentication Protocol to Resist Guessing Attack in Wireless Networks 160**

*Y.-C. Lee, Y.-C. Hsieh, P.-S. You*

**Research of Mobile Database System Based On Mobile Agent 164**

*Jian Yu, Yunhe Pan*

**Error Order of Magnitude for Modeling Autocorrelation Function of Interarrival Times of Network Traffic Using Fractional Gaussian Noise 167**

*Ming Li*

**A Harmonical Model for Approximating the Identity in Min-Plus Convolution 173**

*Ming Li, Wei Zhao*

**Sufficient Condition for Min-Plus Deconvolution to Be Closed in the Service-Curve Set in Computer Networks 177**

*Ming Li, Wei Zhao*

**Classifying Fanatic Documents Using Explanations 182**

*Ahmad Almonayyes*

**UCCSSM: ubiquitous computing context-aware service supply mechanism 188**

*Daoqing Sun, Qiying Cao*

**Virtual Reality Approach in Acrophobia Treatment 194**

*Nazrita Ibrahim, Mustafa Agil Muhamad Balbed, Azmi Mohd Yusof, Faridah Hanimohammed Salleh, Jaspaljeet Singh, Mohamad Shahrul Shahidan*

**On Reducing Decision Complexity 198**

*Sylvia Encheva, Sharil Tumin*

**Services in Untrusted Environment 201**

*Sylvia Encheva, Sharil Tumin*

**Cation Redistribution Upon Water Adsorption in Titanosilicate ETS-10 204**

*Anjaiah Nalaparaju, George X. S. Zhao And Jianwen Jiang*

**A new approach of spontaneous baroreflex sensitivity based on detrended fluctuation analysis: methodology and an application 209**

*Yin-Yi Han, Jia-Rong Yeh, Yu-Wei Liu, Jiann-Shing Shieh*

**A Study on the Research of Rule Establishment for Effective Code Inspection : Case of “A” Company’s Information Systems** 214

*Taewon Kyung, Sangkuk Kim*

**Web History Archive In Large Scale Web** 220

*Sunghoon Cho, Euiin Choi*

**A Study of Profile Storage for Personalization on Ubiquitous Environment** 225

*JeongSeok Kim, Moohun Lee, Sunghoo Cho, Changbok Jang, Bonghoi Kim, Euiin Choi*

**Error estimates of weighted basis finite element method for convection dominated flow problems** 129

*Xiang-Gui Li, Jingliang Qiu, Xi-Jun Yu*

**Intelligent Design of Industrial Products: An Automatic Model for Establishing Specifications** 236

*Edson Pacheco Paladini*

**A Novel and Accelerated Genetic Algorithm** 245

*Bao-Juan Huang, Jian Zhuang, De-Hong Yu*

**A Principle of a Data Synthesizer for Performance Test of Anti-DDOS Flood Attacks** 254

*Ming Li, Wei Zhao*

**A Note on Statistically Detecting Tampered Type Attacks** 259

*Ming Li, Wei Zhao*

**Modeling Lane Dynamics** 262

*Abdul Malik Khan, Andrew Paplinski*

**AINI - Embodied Conversation Agent Applicable for Interactive Games** 272

*Goh Ong Sing, Chun Che Fung*

**Research on Coordinate Degree Evaluation among Organizations of B2B EC based on the Model of Bayes Attribute Synthetic Evaluation** 278

*Shibin Su, Zhenyu Liu*

**Segmentation and Recognition of Hand-Written Digits Using Ossa Neural Network** 282

*Kyunghee Lee*

**A Parallel Multi-Algorithm Solver for Dynamic Multi-Objective TSP (DMO-TSP)** 288

*Lishan Kang, Zhou Kang, Ming Yang*

**Simulation of trends of maintenance policies. A case study in a hospital** 294

*Carmen Carnero*

<b>Efficient causal message logging protocol integrated with asynchronous checkpointing</b>	<b>300</b>
<i>Jinho Ahn</i>	
<b>Finite element analysis of tunnel&amp;#8211;soil&amp;#8211;building interaction using displacement controlled model</b>	<b>306</b>
<i>Keshuan Ma,Lieyun Ding</i>	
<b>Automatic Tag Recommendation for Web 2.0 Blogosphere by Extracting Keywords from Similar Blogs</b>	<b>312</b>
<i>Sigma On Kee Lee And Andy Hon Wai Chun</i>	
<b>Automatic Haiku Generation Using VSM</b>	<b>318</b>
<i>Martin Tsan Wong, Andy Hon Wai Chun</i>	
<b>A Lightweight Web-based Application Framework for Web 2.0 Using Python</b>	<b>324</b>
<i>Andy Hon Wai Chun</i>	
<b>real-time fish detection based on improved adaptive background</b>	<b>330</b>
<i>Zhou Hongbin, Xiao Gang, Chen JiuJun, Gao Fei, Ying Xiaofang</i>	
<b>Convergence of the collocation methods for convergence of the collocation methods for singular integro- differential equations in Lebesgue spaces</b>	<b>336</b>
<i>Nikos E. Mastorakis, Iurie Caraus</i>	
<b>A pilot system for website security-level check</b>	<b>342</b>
<i>Sung-Hoon Kim,Min-Woo Lee,Young-Gab Kim,Jun-Sup Lee,Min-Soo Lee</i>	
<b>Does Interactivity Matter for Females to Learn Computer Skills On-line</b>	<b>346</b>
<i>Ming-Puu Chen</i>	
<b>Promoting ICT Skills Learning through Compensating Weaker Learning Style</b>	<b>352</b>
<i>Li-Chun Wang &amp; Ming-Puu Chen</i>	
<b>Can TF-IDF and Fuzzy Logic Improve Onomasiological Inference Ranking? Or Keywords Frequency is Good Enough?</b>	<b>358</b>
<i>Alberto Barron-Cedeno, Gerardo Sierra, Nicolas Kemper</i>	
<b>Emotions generation and knowledge organisation in an auto-adaptive system using shape and color recognition</b>	<b>365</b>
<i>Camille Havas, Othalia Larue, Mickael Camus</i>	
<b>Numerical simulations used to detect the chaotic evolution of the exchange rate described by a third-order nonlinear determinist system</b>	<b>371</b>
<i>Mirela-Catrinel Voicu</i>	
<b>A new concept gasoline injector with exhaust gas circulation: mechanism and simulation</b>	<b>377</b>
<i>Xiaolu Li, Xiaoming Fang, Xuefei Zhao</i>	

<b>WordNet-Based Document Summarization</b>	<b>383</b>
<i>Chenghua Dang, Xinjun Luo</i>	
<b>The Nature of Reflections on Problem-Solving in Mobile Learning</b>	<b>388</b>
<i>Jung-Chuan Yen &amp; Ming-Puu Chen</i>	
<b>Working space representation for the human upper limb in motion</b>	<b>394</b>
<i>Antoanela Naaji</i>	
<b>SOA-based conceptual model for continuous auditing: A discussion</b>	<b>400</b>
<i>Huanzhuo Ye, Shuai Chen, Fang Gao, Yuning He</i>	
<b>A Continuous Auditing Model Based on Web Services</b>	<b>406</b>
<i>Huanzhuo Ye, Yuning He</i>	
<b>Creative media experience for engineers</b>	<b>412</b>
<i>Siu-Kay Pun</i>	
<b>The Application of Formal Concept Analysis for Modeling Hospital Clinic Processes</b>	<b>417</b>
<i>Telung Pan, Kwoting Fang</i>	
<b>Performance Comparison of Facial Feature Extraction Techniques in Designing Human Emotion Recognition System Using Optimal SVM</b>	<b>423</b>
<i>Govind Kharat, Sanjay Dudul</i>	
<b>Improving Effectiveness of Virtual Tutoring Assistant Systems by Pseudo Relevance Feedback</b>	<b>429</b>
<i>Ji-Wei Wu, Judy C.R. Tseng</i>	
<b>Implementing Efficient Data Synchronization for Mobile Wireless Medical Users</b>	<b>435</b>
<i>Adrian Sergiu Darabant</i>	
<b>A Study of the Transport Route from Different Angles</b>	<b>441</b>
<i>Tingsheng Weng, Shun-Wen Chuang</i>	
<b>Optimum Solution in Fabricating 65nm NMOS Transistors Using Taguchi Method</b>	<b>451</b>
<i>Taib Ziad Mohamad, Ibrahim Ahmad, Azami Zaharim</i>	
<b>Attitude of professors and students about virtual learning at colleges in Iran</b>	<b>457</b>
<i>Ali Akbar Shaikhi Fini</i>	
<b>Port Throughput Forecast Based on Nonlinear Combination Method</b>	<b>461</b>
<i>Jianfeng Li, Yan Chen, Xusheng Cui</i>	
<b>Controlling-vertex-based approach to modeling heterogeneous objects</b>	<b>465</b>
<i>Zhenpeng Ji, Anping Xu, Jingxiong Zhao, Yi Yang, Yunxia Qu</i>	

<b>heterogeneous primitive modeling method based on material feature classification</b>	<b>471</b>
<i>Anping Xu, Zhihua Liu, Yunxia Qu</i>	
<b>An Improved Normal-Free BPA Algorithm for 3D Surface Reconstruction</b>	<b>477</b>
<i>Yang Guang, Ji Shiming, Chen Shengyong</i>	
<b>The effects of digital technology assisted instruction applied in the physical-examining skill courses</b>	<b>482</b>
<i>Mei-Huang Huang, Aih-Fung Chiu, Ju-Ling Liu</i>	
<b>Investigating axial flow between eccentric cylinders</b>	<b>488</b>
<i>Jane Labadin, Yiiong Siew Ping, Andrew G. Walton</i>	
<b>An Experiment of the Life Support Network for Elderly People in a Rural Area</b>	<b>492</b>
<i>Jun Sasaki, Keizo Yamada, Michiru Tanaka And Yutaka Funyu</i>	
<b>Association Between Facial Expressions and Symbolic Expressions of Emotion</b>	<b>498</b>
<i>I-Tsen Liu, Chung-Shan Sun</i>	
<b>A Comparative Two-Group Study to E-Note</b>	<b>504</b>
<i>Shaista Rashid, Dimitris Rigas</i>	
<b>Throughput Analysis of Burst Transmissions in IEEE 802.11e WLANs with a Fading Channel</b>	<b>510</b>
<i>Jain-Shing Liu</i>	
<b>Evaluation of using communication and information technology and its obstacles to do managerial duties in Tehran's universities</b>	<b>516</b>
<i>Hossien Zainally Poor</i>	
<b>Using Multimodal Interfaces to Browse Internet Search Results</b>	<b>522</b>
<i>Antonio Ciuffreda, Dimitrios Rigas</i>	
<b>Implementation of data-exchanging system based on Message Oriented Middleware in Website</b>	<b>528</b>
<i>Zhang Xiaoshuan, Wu Qinghua, Zhao Ming</i>	
<b>Research on Data Expression in J2EE Architecture system</b>	<b>532</b>
<i>Zhang Xiaoshuan, Chen Peijun, Zhao Ming</i>	
<b>Offline Signature Verification System using Hidden Markov Model in MATLAB Environment</b>	<b>536</b>
<i>Sharifah Mumtazah Syed Ahmad, Asma Shakil, Mustafa Agil Muhamad Balbed</i>	
<b>An operational system for linear feature extraction in land consolidation using high resolution imagery</b>	<b>541</b>
<i>Rui Guo, Daoliang Li</i>	
<b>Object oriented implementation monitoring of zone type land consolidation engineering using SPOT 5 imagery</b>	<b>546</b>



*Wei Su, Chao Zhang, Li Li, Yujuang Wang, Daoliang Li*

**A multidisciplinary GIS-based approach for the potential evaluation of land consolidation projects: a model and its application** 551

*Xiaochen Zou, Daoliang Li*

**Contrast and Analysis Methods of Moderate -resolution Satellite Remote Sensing Image Classification** 557

*Jinli Chen, Li Li, Daoliang Li, Chao Zhang, Yan Huang*

**Texture Feature Extraction for Land-cover Classification of Remote Sensing Data in Land Consolidation District Using Semi-variogram** 562

*Anzhi Yue, Su Wei, Daoliang Li, Chao Zhang, Yan Huang*

**A Super Resolution SAR Imaging Algorithm Based on Adaptive Kalman Filter for Land Consolidation** 568

*Li Li, Chao Zhang, Wei Su, Daoliang Li*

**Design and implementation of remote sensing monitoring system in land consolidation** 574

*Chao Zhang, Wei Su, Yijun Jiang, Yongpeng Zhao, Daoliang Li*

**A Web-GIS based Decision Support System for Revegetation in Coal Mine Waste Land** 579

*Yingyi Chen, Daoliang Li*

**Automation and Management Using Intelligent Instrumentation and Field Networks in the Water Treatment Process Automation** 585

*Marcelo De Souza, Caio Fernando Fontana, Eduardo Mario Dias, Sergio Luiz Pereira*

**A Design of Extracting System for Specific Contents Portion on Business Application** 592

*Young Jun Kim*

**A Comparison of Neural Network, Rough Sets and Support Vector Machine on Remote Sensing Image Classification** 597

*Hang Xiao, Xiubin Zhang, Yumei Du*

**A Flexible Framework for View-Based 3D Model Retrieval** 604

*Hang Xiao, Xiubin Zhang, Yumei Du*

**Redundant Data Transmission via Different Types of Binary Channels** 609

*H. D. Wacker J. Boercsoek H. Hillmer*

**Intelligent system for multimodal transport planning and containers monitoring - MNS** 615

*Gabriela Rodica Hrin*

**Multilayered Multicast Algorithms for Ad Hoc Wireless Networks** 621

*Osamah Badarneh, Michel Kadoch, Ahmed Elhakeem*

**Issues, Threats and Future Trend for GSP** 627

*L. Y. Por, X. T. Lim*

**Framework for the Development of Educational Software** 634

*Rosa Reis*

**Universal Symbolic Translator for Procedural Language over SQL** 639

*Calin-Adrian Comes, Lucian-Dorel Savu, Ioan Ovidiu Spatacean, Beatrice Stefan, Avram Ancuta*

**Genetic Algorithms Approach to Twin-Screw Food Extrusion Process Frequency Domain Parameter Estimation** 645

*Anant Oonsivilai ,Ratchadaporn Oonsivilai*

**Applying mathematical programming elements to answer market needs: case studies of optimization of electrical power flow** 651

*Emerson Eustaquio Costa, Luiz Danilo Barbosa Terra, George Leal Jamil*

**Time Complexity of a Matrix Product on Message Passing Architectures** 658

*Maryam Amiripour and Hamid Abachi*

**Learning techniques of CAD operations to restore partial omissions in 2D drawings** 666

*Masaji Tanaka, Toshiaki Kaneeda, Daisuke Sasae, Junichi Fukagawa, Ryosuke Yokoi, Machiko Fujiwara*

**An empirical investigation for the role of facial expressions and body gestures in interactive environments** 672

*Dimitrios Rigas, Nikolaos Gazepidis*

**Key Factors Involving the Design of the System of Virtual University** 678

*Martina Kadavova, Antonin Slaby, Filip Maly*

**Impact of Using Computer Applications in Education on Teaching-Learning Process** 684

*Andreea Zamfir*

**Information Hiding: A New Approach in Text Steganography** 689

*L. Y. Por, B. Delina*

**Evaluation Models for Choosing Insurance Policy Using the AHP, Fuzzy Logic, and Delphi Technique** 696

*Chin-Sheng Huang, Yu-Ju Lin, Che-Chern Lin*

**What can multimedia add to the optimization of teaching and learning at universities?** 704

*Eva Milkova*

**Is Adaptive Learning Effective? A Review of the Research** 710

*Elena Verdú, Luisa M. Regueras, María J. Verdú, Juan P. de Castro, María A. Pérez*

**Mobile approach, trends and technologies in modern information systems** 716

*Tomas Kozel, Filip Maly, Antonin Slaby*

<b>Graph algorithms in mutual contexts</b>	<b>721</b>
<i>Eva Milkova, Antonin Slabý</i>	
<b>Development of software for trawling nets. Case of the conversion from types of cut to angle and vice versa</b>	<b>727</b>
<i>Javier Bilbao Eugenio Bravo Olatz Garcia Concepcion Varela Miguel Rodriguez Alexander Odriozola</i>	
<b>Process Mutation Models of Agile Project Management Methodologies</b>	<b>731</b>
<i>Evangelos Markopoulos Javier Bilbao Eugenio Bravo Todor Stoilov Tanjia Vos Carlo Figa Katrin Reschwamm</i>	
<b>Improving academic results of students by means of computer applications</b>	<b>736</b>
<i>Javier Bilbao Eugenio Bravo Olatz Garcia Concepcion Varela Miguel Rodriguez Veronica Valdenebro Gorka Garate Izaskun Baro Purificacion Gonzalez Emiliana Uranga</i>	
<b>A Modified PCX Image Compression Algorithm</b>	<b>740</b>
<i>Che-Chern Lin</i>	
<b>Projects Selection and Resource Allocation in Turbulent Environments: the Role of Critical Success Factors</b>	<b>746</b>
<i>George Mavrommatis, Elias Maragos</i>	
<b>Protocol-Based Classification for Intrusion Detection</b>	<b>749</b>
<i>Ming-Feng Wu</i>	
<b>A Soft Decision Feedback Turbo Equalizer (SDFE) for Data Communication</b>	<b>755</b>
<i>Aruna Tripathy, Sant Sharan Pathak and Saswat Chakrabarti</i>	
<b>Building the imagistic textural model of the liver pathological stages for the early detection of hepatocellular carcinoma based on ultrasound images</b>	<b>764</b>
<i>Delia Mitrea, Sergiu Nedevschi, Monica Lupsor, Radu Badea</i>	
<b>The Impact of Multi-Players Serious Games on the Social Interaction among Online Students versus Face-to-Face Students</b>	<b>772</b>
<i>Samah Mansour, Mostafa El-Said</i>	
<b>The Internet and Infantile Pornography</b>	<b>779</b>
<i>Dan-Maniu Duse, Carmen Sonia Duse, Marcel Ioan Rusu</i>	
<b>Informatics Crime</b>	<b>783</b>
<i>Dan-Maniu Duse, Carmen Sonia Duse, Marcel Ioan Rusu</i>	
<b>Structural Optimization and Performance of Sifcon Plates</b>	<b>787</b>
<i>H. K.Sharma , V.P. Singh and Mukesh Kumar</i>	
<b>Towards secure legally valid long-term electronic archive using pattern approach</b>	<b>793</b>
<i>Helena Halas, Jan Porekar, Tomaž Klobučar, Aleksej Jerman Blažič</i>	

## Plenary Lecture I

### Inverse Acoustic and Electromagnetic Obstacle Scattering: Theory and Numerics

**Professor Jun Zou**  
Department of Mathematics  
The Chinese University of Hong Kong

**Abstract:** In this talk we shall present some breakthroughs that have been achieved in the past few years on inverse acoustic and electromagnetic obstacle scattering problems. Both theory and numerical simulations will be discussed. This is a joint work with Dr. Hongyu Liu (Washington University, Seattle) and supported by Hong Kong RGC grants (Project 404105 and Project 404606).

**Brief Biography of the Speaker:** Jun ZOU is a Professor in Department of Mathematics of The Chinese University of Hong Kong. Before taking up his current position in Hong Kong, he had worked two years (93-95) in University of California at Los Angeles (USA) as a post-doctoral fellow and a CAM Assistant Professor, worked two and a half years (91-93) in Technical University of Munich as a Visiting Assistant Professor and an Alexander von Humboldt Research Fellow (Germany), and worked two years (89-91) in Chinese Academy of Sciences (Beijing) as an Assistant Professor. His research areas include numerical solutions of electromagnetic Maxwell systems, interface problems, ill-posed Problems and inverse Problems. He has about 70 publications in the refereed international journals.

## Plenary Lecture II

### Fractal Time Series and Tele-Traffic



**Professor Ming Li**

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**Abstract:** Fractal time series gains applications in various fields of sciences and technologies ranging from financial engineering to network traffic. The speech will describe several models of fractal time series, such as fractional Gaussian noise, the generalized Cauchy process, and so on. Possible applications of fractal time series to networking will be discussed.

**Short Biography of the Speaker:** Ming Li, Ph.D., is a professor in electronic communications and information systems, as well as computer science at East China Normal University, PR. China. He was with the School of Computing, National University of Singapore, before joining East China Normal University in 2004. His research areas relate to applied statistics and signal processing with the recent interests in fractal time series and time-frequency analysis, computer science currently focusing on network traffic modeling and network security, and measurement & control in the aspects of error analysis and optimal control. He has published over refereed 60 papers in international journals and international conferences in those areas.

## Plenary Lecture III

### Multimedia system – 3d Interactive Model Web (3DIMW)



**Professor Rong-Jyue Fang**  
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Taiwan  
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**Abstract:** Based on the functions of theoretical foundations and related literature analysis, study group develop a multimedia system named: 3D Interactive Model Web (3DIMW). The original purpose of research work targeting on constructing a learning platform for three-dimensional computer animation. The feasibility was based on the evaluated functions of 3-D animation techniques and the prototype constructed. Platform derived from three-dimensional computer animation technique associated with ASP.NET and SQL Database. After the completion of platform, consequent procedures were applied to examine the usefulness of it. Graphic science and drawing course was the object comes up with first choice. Later a Turbulence Phenomena simulation and nano sized physical representation showed that it is a good tool for learning complicated image description and maneuvering sophisticated micro-devices.

**Brief Biography of the Speaker:**Dr. Rong-Jyue Fang – 1984 graduated from The Pennsylvania State University IED Department PhD program. He had been Director of Computation Center, Department Chair of Industrial Technology, and Dean of R&D Office in National Kaohsiung Normal University, later, been a President of National Taitung (East Taiwan) University. In 2005, he moves to Southern Taiwan University of Technology as a Chair Professor. He concentrates his research on multimedia hardware, software, and system development for more than twenty years and gain more than twenty years financial support from Taiwan's National Science Council. In recent years, he works mostly on 3D Interactive Model Web.

## Plenary Lecture IV

### Analytical Synthesis Method: A New Circuit Design Method for Arbitrary Requirements



**Professor Chun-Ming Chang**

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**Abstract:** Analytical Synthesis Method (ASM) has been presented in several papers published in the IEEE Transactions on Circuits and Systems since 2003. It is one of the powerful design methods in the field of analog circuit design. It is the method using a succession of innovative algebra manipulation operations to decompose a complicated transfer function representing the relationship between the output and the input signals of a design project into many simple equations feasible by using the corresponding simple sub-circuitries. The simple sub-circuitries can be constructed by the desired configuration of the element such as the single-ended-input operational transconductance amplifiers (OTAs) and the grounded capacitors, both of which are used for absorbing and reducing the shunt parasitic capacitance and lead to have more precise output responses. In addition to this, the ASM can control the number of the terms in the complicated decomposition process such that the number of both active and passive components used in the circuit is the least compared to the previously reported ones. Then, the ASM is the only one method which can simultaneously achieve the three important criteria for the design of OTA-C circuits without trade-offs.

Due to the flexibility of the ASM, the simple sub-circuitries used in the circuit design can be changed and chosen according to different necessities for the target of the circuit design. For example, if the reduction of the number of the active and passive components used in the circuit is more important than the type of the element configurations like single-ended-input/differential-input OTAs and grounded/floating capacitors due to the consideration about power consumption, chip area, noise, and total parasitics....., etc., the minimum component OTA-C circuit can also be investigated and developed successfully using the ASMs. The fully flexible characteristic and the real demonstration in the literature of the ASM may make it be one of the most prospective methods in the field of analog circuit design in the near future..



## Plenary Lecture V

### Real-time In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions



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**Abstract:** We study the feasibility of 3D virtual histology through real-time in vivo and in situ cellular imaging. A prototype system has been developed based on photodynamic fluorescence signals, confocal endomicroscopy, and FPGA image processing and characterization computing. Experiments in its clinical applications have been conducted, mainly for diagnosis of early-stage mucous cancer. With the fine-grained parallel imaging programs mapped on the FPGA, a stream of focused optical sections of microstructures in the subsurface layers up to 300 $\mu$ m in depth, can be processed online and the extracted features can be visualized seamlessly with the endomicroscopy settings.

**Brief Biography of the Speaker:** Lin Feng, PhD, is an Associate Professor in School of Computer Engineering, Nanyang Technological University, Singapore. His research interests include bioinformatics, bioimaging and visualization, and high-performance computing. He has published about one hundred technical papers in journals, conferences and books, and served in several editorial boards and conference organization committees.

## Plenary Lecture VI

### **Obstacle Avoidance for Kinematically Redundant Manipulators Based on an Improved Problem Formulation and Two Recurrent Neural Networks**

**Professor Jun Wang**

Department of Mechanical and Automation Engineering

The Chinese University of Hong Kong

Shatin, N.T., Hong Kong

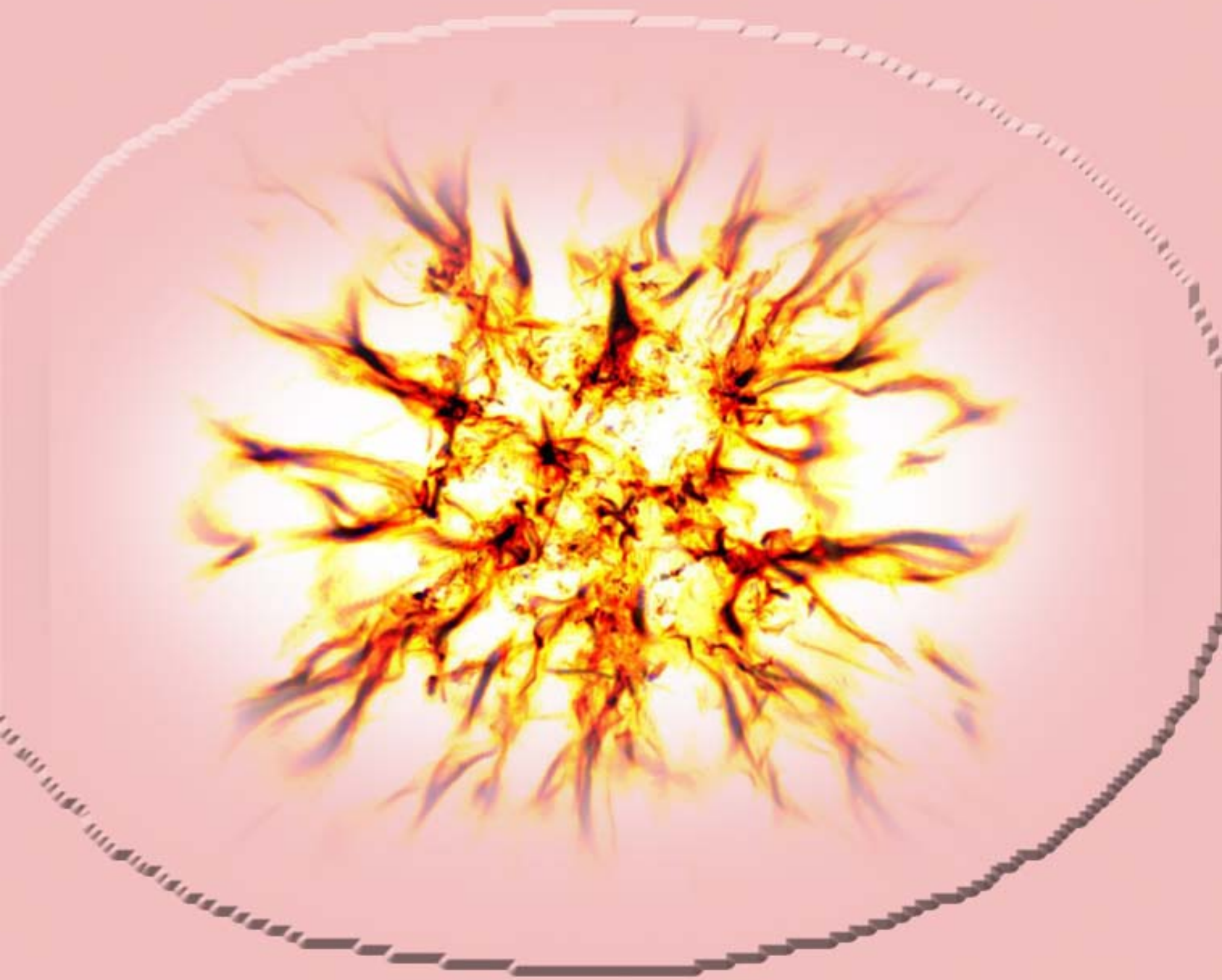
**Abstract:** With the wide deployment of kinematically redundant manipulators in industrial applications, obstacle avoidance emerges as an important issue to be addressed in robotic motion planning. In this talk, we show the formulation of the inverse kinematic control of redundant manipulators with obstacle avoidance task as a convex quadratic programming problem with both equality and inequality constraints. Compared with our previous formulation, the new problem formulation is more favorable with better solutions or bigger solution set to the problem. To solve this time-varying quadratic programming problem in real time, two recurrent neural networks are applied to compute inverse-kinematic solutions with obstacle avoidance capability in real time. The effectiveness of the proposed approach is demonstrated by using simulation results based on the Mitsubishi PA10-7C

## AUTHOR INDEX

Abachi, H.	658	Do, J.-Y.	36
Ahmad, H.F.	141	Dogaru, O.	41
Ahmad, I.	451	Du, Y.	597, 604
Ahmad, S.M.S.	536	Dudul, S.	423
Ahn, J.	300	Duse, C.S.	779, 783
Almonayyes, A.	182	Duse, D.-M.	779, 783
Amiripour, M.	658	E-Amin, F.	141
Ancuta, A.	639	Ebrahimi, M.	60
Badarneh, O.	621	Elhakeem, A.	621
Badea, R.	764	El-Said, M.	772, 201
Balasubramanian, N.V.	92	Encheva, S.	198
Balbed, M.A.M.	194, 536	Fahimnia, B.	60
Baro, I.	736	Fang, K.	417
Barron-Cedeno, A.	358	Fang, X.	377
Bilbao, J.	727, 731, 736	Fei, G.	330
Blažič, A.J.	793	Figa, C.	731
Boercsoek, J.	609	Fini, A.A.S.	457
Bogosyan, S.	25	Fontana, C.F.	585
Bravo, E.	727, 731, 736	Fujiwara, M.	666
Camus, M.	365	Fukagawa, J.	666
Cao, Q.	75, 116, 188	Fung, C.C.	272
Caraus, I.	336	Funyu, Y.	492
Carnero, C.	294	Gang, X.	330
Chakrabarti, S.	755	Gao, F.	400
Chen, J.	557	Garate, G.	736
Chen, J.-C.	99	Garcia, O.	727, 736
Chen, M.-P.	346, 352, 388	Gazepidis, N.	672
Chen, S.	400	Georgescu, V.	150
Chen, S.-G.	146, 156	Gokasan, M.	25
Chen, Y.	461, 579	Gonzalez, P.	736
Chi, M.-H.	146	Guang, Y.	477
Chiu, A.-F.	482	Guo, R.	541
Cho, S.	220, 225	Halas, H.	793
Choi, E.	220, 225	Han, Y.-Y.	209
Chuang, S.-W.	441	Hao-Erl, Y.	69
Chun, A.H.W.	312, 318, 324	Havas, C.	365
Ciuffreda, A.	522	He, Y.	400
Comes, C.-A.	639	He, Y.	406
Costa, E.E.	651	Hillmer, H.	609
Cui, X.	461	Hongbin, Z.	330
Dang, C.	383	Hrin, G.R.	615
Darabant, A.S.	435	Hsieh, Y.-C.	160
de Castro, J.P.	710	Huang, B.-J.	245
Delina, B.	689	Huang, C.-S.	696
Dias, E.M.	585	Huang, M.-H.	482
Ding, L.	306	Huang, X.	106, 112

Huang, Y.	557, 562	Lim, X. T.	627
Ibrahim, N.	194	Lin, C.-C.	696, 740
Jamil, G.L.	651	Lin, C.-H.	129
Jang, C.	225	Lin, Y.-J.	146, 696
Ji, Z.	465	Liu, I-T.	498
Jiang, Y.	574	Liu, J.-L.	482
Jiang, J.	204	Liu, J.-S.	510
Jiujun, C.	330	Liu, Y.-W.	209
Kadavova, M.	678	Liu, Z.	278, 471
Kadoch, M.	621	Luo, X.	383
Kaneeda, T.	666	Luo, Y.	75
Kang, L.	288	Lupsor, M.	764
Kang, Z.	288	Ma, K.	306
Kemper, N.	358	Maly, F.	678, 716
Khan, A.M.	262	Manohar, G.T.	92
Kharat, G.	423	Mansour, S.	772
Kim, B.	225	Maragos, E.	746
Kim, D.	36	Markopoulos, E.	731
Kim, J.S.	225	Mastorakis, N.E.	336
Kim, S.	214	Mavrommatis, G.	746
Kim, S.-H.	342	Meenakshi, R	92
Kim, Y.-G.	342	Milkova, E.	704, 721
Kim, Y.J.	592	Ming, Z	528, 532
Klobučar, T.	793	Mitrea, D.	764
Kozel, T.	716	Mohamad, T.Z.	451
Krachodnok, P.	54	Molaei, R.	60
Kumar, M.	787	Naaji, A.	394
Kuzu, A.	25	Nalaparaju, A.	204
Kyung, T.	214	Nedevschi, S.	764
Labadin, J.	488	Odriozola, A.	727
Lai, Y.-C.	99	Oonsivilai, A.	645, 645
Larue, O.	365	Paladini, E.P.	236
Lee, J.-S.	342	Pan, T.	417
Lee, K.	282	Pan, Y.	164
Lee, M.	225	Paplinski, A.	262
Lee, M.-S.	342	Pathak, S.S.	755
Lee, M.-W.	342	Peng, Z.	122
Lee, N.	36	Pereira, S.L.	585
Lee, S.O.K.	312	Pérez, M.A.	710
Lee, Y.-C.	160	Pi, V.N.	81
Li, X.-G.	129	Ping, Y.S.	488
Li, D.	541, 546, 551, 557, 562, 568, 574, 579	Poor, H.Z.	516
Li, J.	461	Por, L.Y.	627, 689
Li, L.	546, 557, 568	Porekar, J.	793
Li, M.	167, 173, 177, 254, 259	Pun, S.-K.	412
Li, S.	122	Qinghua, W.	528
Li, X.	377	Qinghua, W.	532
Li, Z.	122	Qiu, J.	129

Qu, Y.	465, 471	Uranga, E.	736
Rashid, S.	504	Valdenebro, V.	736
Regueras, L.M.	710	Varela, C.	727, 736
Reis, R.	634	Verdú, E.	710
Reschwamm, K.	731	Verdú, M.J.	710
Rigas, D.	522, 504, 672	Voicu, M.-C.	371
Rodriguez, M.	727, 736	Vos, T.	731
Rusu, M.I.	779, 783	Vu Ngoc Pi	50
Ryu, K.W.	36	Wacker, H.D.	609
Safvi, S.A.	86	Walton, A.G.	488
Salleh, F.H.	194	Wang, L.-C.	352
Sasae, D.	666	Wang, Y.	546
Sasaki, J.	492	Wei, S.	562
Savu, L.-D.	639	Weng, T.	441
Selvi, R.T.	92	Wong, M.T.	318
Shahidan, M.S.	194	Wongsan, R.	54
Shahzad, B.	86	Wu, J.-W.	429
Shakil, A.	536	Wu, J.-Y.	146
Sharma, D.	106	Wu, M.-F.	749
Sharma, H.K.	787	Xiao, H.	597, 604
Shengyong, C.	477	Xiaofang, Y.	330
Shieh, J.-S.	209	Xiaoshuan, Z.	528, 532
Shiming, J.	477	Xinwu, W.	31
Siddiq, A.	141	Xu, A.	465, 471
Sierra, G.	358	Yamada, K.	492
Sing, G.O.	272	Yang, M.	288
Singh, J.	194	Yang, Y.	465
Singh, V.P.	787	Ye, H.	400, 406
Slaby, A.	678, 716, 721	Yeh, J.-R.	209
Souza, M.D.	585	Yen, J.-C.	388
Spatacean, I.O.	639	Yokoi, R.	666
Stamin, C.	41	You, P.-S.	160
Stefan, B.	639	Yu, D.-H.	245
Stoilov, T.	731	Yu, J.	164
Su, S.	278	Yu, X.-J.	129
Su, W.	546, 568, 574	Yue, A.	562
Sun, C.-S	498	Yusof, A.M.	194
Sun, D.	75, 188, 116	Zaharim, A.	451
Tanaka, M.	492, 666	Zamfir, A.	684
Tao, Y.	135	Zhang, C.	546, 557, 562, 568, 574
Terra, L.D.B.	651	Zhang, X.	597, 604
Thaiviro, V.	54	Zhao, Y.	574
Tripathy, A.	755	Zhao, G.X.S.	204
Tsai, C.-H.	99	Zhao, J.	465
Tsay, M.-T.	129	Zhao, W.	173, 177, 254, 259
Tseng, J.C.R.	429	Zhao, X.	377
Tumin, S.	198, 201	Zhuang, J.	245
Udriste, C.	41	Zou, X.	551



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