

Table of Content

Preface.....	iii
Conference Organization.....	iv
Table of Contents.....	xi

The 9th International Conference on Distributed Multimedia Systems

Keynotes

<i>Secure Distributed Multimedia Information Management</i>	3
Bhavani Thuraisingham	
<i>Next Generation Networking: Distributed Multimedia Information for Healthcare</i>	4
Michael J. Ackerman	
<i>Distributed Multimedia Information Systems: An End-to-End Perspective</i>	5
Arif Ghafoor	

Multimedia Software Engineering and Multimedia Management Systems

<i>Designing Quality of Service Based Multimedia Systems Using the Unified Modeling Language</i>	6
Muhammad Abdulla, Duminda Wijesekera, and Hassan Gommaa	
<i>MM4U - A framework for creating personalized multimedia content</i>	12
Susanne Boll	
<i>MediaManager: A Distributed Multimedia Management System for Content-Based Retrieval, Authoring and Presentation</i>	17
Shu-Ching Chen, Mei-Ling Shyu, and Na Zhao	
<i>Info Navigator: A Visualization Interface for Document Searching and Browsing</i>	23
Matthew Carey, Daniel C Heesch, and Stefan M Ruger	

Tele-conferencing Technologies

<i>Uncompressed Video Transmissions and Remote Controlled Distributed Television Productions in Real-Time over High-Capacity Networks</i>	29
Susanne Naegle-Jackson, Peter Holleczeck, Andreas Metz, and Horst Wollherr	

<i>Seamless Videoconferencing System</i>	35
Thitiporn Lertrusdachakul, A. Taguchi, T. Aoki, and H. Yasuda	
<i>Conferencing: A 3D Audio Conferencing/Archiving Service Supporting Wireless PDA Clients With 3D Graphical Interactive Interfaces</i>	41
Stuart Goose, Jochen Riedlinger, and Sreedhar Kodlahalli	
<i>Adaptive QoS-Based Load-Sharing in Multisession-Video-Conferencing Distributed Multimedia System</i>	47
Mohammad R. Moghal, Mohammad S. Mian, and Jahangir A. Satti	

Multimedia Communications and Network Architectures

<i>Notification-Based QoS Control Protocol for Group Communication</i>	53
Takuya Tojo, Tomoya Enokido, and Makoto Takizawa	
<i>Layer Subscription Coordination in Arbitrary Non-Cumulative Layered Multicasting Environments</i>	59
Gamal Abdel Shafy Ebrahim and Akmal A. Younis	
<i>Adaptive Adjustment of End-to-End Delay and Inter-Receiver Delay Variation in the Multicast Tree</i>	66
Gamal Abdel Shafy Ebrahim and Akmal A. Younis	
<i>Enhancing Patching Performance Through Double Patching</i>	72
Ying Cai, Wallapak Tavanapong, and Kien A. Hua	

Multimedia Communications and Interaction for Mobile Applications and Wireless Networks

<i>A Cross-Layer Optimization Approach For Multimedia Over CDMA Mobile Wireless Networks</i>	78
Yee Sin Chan and James W. Modestino	
<i>A Multimedia Programming Environment for Cellular Automata Systems</i>	84
Mahmoud A. Saber, Nikolay Mirenkov	
<i>Quality-of-Service Based Delivery of Multimedia Database Objects without Compromising Format Independence</i>	90
Sven Schmidt, Andreas Marcz, Wolfgang Lehner, Maciej Suchomski, and Klaus Meyer-Wegener	
<i>Quality of Service Provision in Buffered Crossbar Switches by Emulating Output Queueing Switch</i>	94
Qiang Duan	

Web-based Applications, Multimedia Streaming and QoS Control

<i>Autopilot Scripting for the TerraFly GIS</i>	98
Naphtali Rishe, Boonserm Wongsaroj, Maxim Chekmasov, Andriy Selivonenko, Yanli Sun, Scott Graham, and Alejandro Mendoza	
<i>Mining Typical User Profiles using Non-negative Matrix Factorization</i>	101
Jianjiang Lu, Baowen Xu, Gangshi Huang, and Yafei Zhang	
<i>Web-based Virtual Tour Using The Tour Into The Picture (TIP) Technique</i>	105
Sanghyuk Yoon, Hai-jung Chen, Tom Hsu, and Ilmi Yoon	
<i>Congestion Adaptive Streaming: An Integrated Approach</i>	109
Ashwatha Matthur and Padmavathi Mundur	

Multimedia Content Analysis, Retrieval and Intelligent Multimedia Computing

<i>Efficient Content-Based Video Retrieval Using Fuzzy Spatial Relations</i>	113
Abeer S. Madbouly, Nigel M. John, Akmal A. Younis, and Mansur R. Kabuka	
<i>Compressed Pattern Matching for Predictive Lossless Image Encoding</i>	120
Tao Tao and Amar Mukherjee	
<i>A Distributed Algorithm for Intelligent Stereoscopic Image Capture</i>	126
Sameer Narkhede and Forouzan Golshani	

Multimedia Compression, Modeling and Web-based Applications

<i>CULTOS: Towards a World-Wide Digital Collection of Exchangeable Units of Multimedia Content for Intertextual Studies</i>	130
Karin Schellner, Utz Westermann, Sonja Zillner, and Wolfgang Klas	
<i>Wavelet-Based Video Compression Using Multiresolution Motion Estimation and Compensation</i>	138
Weiting Cai and Malek Adjouadi	
<i>A Rich-Semantics GIS Imagery Composing Framework</i>	144
Naphtali Rishe, Yanli Sun, and Andriy Selivonenko	
<i>Testing Web Performance Through Obtaining Users' Actions</i>	148
Lei Xu, Baowen Xu, Hongji Yang, and Huowang Chen	

Video Data Management

<i>Detection of Plays and Breaks in football Games Using Audiovisual Features and HMM.....</i>	154
Mohamed Abdel-Mottaleb and Guy Ravitz	
<i>VDBMS: A Testbed Facility for Research in Video Database Benchmarking.....</i>	160
Walid G. Aref, Ann Catlin, Ahmed K. Elmagarmid, Jianping Fan, Moustafa Hammad, Ihab Ilyas, Mirette Marzouk, Sunil Prabhakar, Yi-Cheng Tu, and Xingquan Zhu	
<i>Video Indexing and Retrieval based on Object Motion and Positions.....</i>	167
Serhan Dagtas	
<i>Playing Video Streams with Variable Qualities.....</i>	173
Ibrahim Kamel and Khaled Elbassioni	
<i>Fast 2D Wavelet Transform Through a Novel "Twisted-Packed" Algorithm.....</i>	181
Corneliu Manescu and Abdelsalam (Sumi) Helal	

XML Based Applications and Intelligent Multimodal Interaction

<i>XML Schema Modeling Using Sem-ODM.....</i>	187
Li Yang, Naphtali Rishe, Maxim Chekmasov, Scott Graham, Yanli Sun, and Ian de Felipe	
<i>Implementation of a .NET Distributed Computing Cluster using XML Web Services.....</i>	193
Alejandro Simon, Malek Adjouadi, Anaelis Sestin, Craig Mackey, Mark Rossman, and Melvin Ayala	
<i>Layout Adaptation with XFrames.....</i>	199
Istvan Beszteri and Petri Vuorimaa	
<i>Intelligent Multimodal Interaction.....</i>	204
Smita Bhandarkar, Divya Sathyanarain, and Akanksha Singhvi	

Virtual Learning Community and Distance Learning Methodologies

<i>Augmented Video System Based on Petri Net.....</i>	208
Timothy K. Shih, Han-Bin Chang, Yi-Chun Liao, and Jung-Ken Chuang	
<i>DSC - A Decentralized Synchronous Collaboration P2P System Using JXTA.....</i>	214
Jianhua Ma, Makoto Shizuka, Jeneung Lee, Tomomi Kawashima, and Runhe Huang	
<i>Web-Service Oriented Content Providing for SCORM Compatible LMS Systems.....</i>	220
Chih-Ping Chu, Chingpao Chang, Alice (Chung-Wei) Yeh, and Yufang Yeh	
<i>A Real-Time Interactive Distance Education System for Broad Band Internet Environment..</i>	226
Billy Pham, Kazuo Yana, and Hisato Kobayashi	

<i>A SCORM Based Content Aggregation and Presentation system</i>	233
Timothy K. Shih, Wen-Chih Chang, Keith Hsieh, and Jyh Yu Hu	

Multimedia Technologies for People With Disability

<i>The Berlin Brain-Computer Interface (BBCI)</i>	237
Roman Krepki, Benjamin Blankertz, Gabriel Curio, and Klaus-Robert Müller	
<i>3-D Sound Navigational Aid for the Blind Based on Real-Time Sonar Range Measurements</i>	245
Armando B. Barreto, Maroof H. Choudhury, and Carlos A. Ordonez	
<i>Use of 3-D Sound Auditory Icons in the Enhancement of Human-Computer Interfaces for Partially Sighted Users</i>	251
Armando B. Barreto, P.O. Hugh, J.A. Jacko, and M. Adjouadi	

The 2003 International Conference on Visual Languages and Computing

Visual and spatial reasoning

<i>Truth, Negation, and Entailment in Pictures</i>	257
Gary Malinas	
<i>A Constraint Diagram Reasoning System</i>	263
Gem Stapleton, John Howse, and John Taylor	
<i>Lambda-Space - A Mapping of the Observation Space for Spatial Reasoning</i>	271
Erland Jungert	
<i>Documents in Visual Reasoning: From Paper-Based to Electronic Ones</i>	277
Daniela Fogli, Giuseppe Fresta, Piero Mussio, and Denise Salvi	
<i>Visualization of Uncertainty in Spatial Classification</i>	283
Iftikhar Sikder, Aryya Gangopadhyay, and Victoria Y. Yoon	

Pictorial querying and visualization

<i>Aspects of a Visual User Interface for Spatial/Temporal Queries</i>	287
Karin Silvervag and Erland Jungert	
<i>WebMGISQL - A 3D Visual Environment for GIS Querying</i>	294
L. Paolino, F. Pittarello, M. Sebillio, G. Tortota, and G. Vitiello	
<i>Qualitative Tools to Support Visual Querying in Large Spatial Databases</i>	300
Alia I. Abdelmoty and Baher A. El-Geresy	
<i>CADAPPLETS: Visualization of VLSI CAD Algorithms</i>	306
John A. Nestor	
<i>Customized Multimedia Presentations in a Distance Learning Environment</i>	312
T. Arndt, A. Guercio, P. Maresca, and H. Kulkarni	

Reasoning on subjective visual perception in visual computing

<i>Visualizing User's Emotions for Enhanced Human Computer Interaction</i>	316
Christine L. Lisetti, Fatma Nasoz, and Ning Yu	
<i>Is the subjective feel of "presence" an uninteresting goal?</i>	322
Roberto Casati and Elena Pasquinelli	
<i>Interpretation and ambiguity resolution in Sketch-Based Interfaces</i>	327
Fernando Ferri and Patrizia Grifoni	
<i>What Users See Is What Users Need</i>	335
Daniela Fogli, Antonio Piccinno, and Denise Salvi	
<i>Exploring Multiple Visualization Perspectives with Aesthetic Computing</i>	341
Paul Fishwick	

Specifying and generating Visual Languages and Environments

<i>A Tool for the Aided Generation of Interactive Visual Environments</i>	347
R. Cassino, G. Tortora, M. Tucci, and G. Vitiello	
<i>CIDER: A Component-Based Toolkit for Creating Smart Diagram Environments</i>	353
Anthony R. Jansen, Kim Marriott, and Brad Meyer	
<i>Exceptions in Visual Data Flow Programming Languages</i>	360
Philip T. Cox, and Simon Gauvin	
<i>Semantic Specifications in Reserved Graph Grammars</i>	368
Ke-Bing Zhang, Kang Zhang, and Mehmet A.Orgun	

The 2003 International Conference on Visual Information Systems

Visual Information Systems & Architecture

<i>Recent Advancement in Indexing and Retrieval of Visual Documents</i>	375
L. Guan, P. Muneesawang, J. Lay, I. Lee and T. Amin	
<i>Content-based browsing of mail-order catalogue with PicSOM system</i>	381
V. Viitaniemi and J. Laaksonen	
<i>A Versatile Image Retrieval Platform based on a Multi-agent Architecture</i>	387
S. Dimitriadis, K. Marias, and S. C. Orphanoudakis	
<i>Visual Retrieval of Environmental Information</i>	393
G. Lopez, K. Sasaki, and P. Maret	

Content Analysis and Benchmarking

<i>Video Text Detection And Segmentation</i>	397
C. W. Ngo and N. C. K. Chan	
<i>Contextually Meaningful Representation of Color for the Description of Visual Content</i>	403
S. Volmer and N. Diakopoulos	
<i>Relevance Feedback in Content-Based Image Retrieval Using GRA</i>	410
Kui Cao and Y. Feng	
<i>A Benchmark for Performance Calibration in Visual Information Search</i>	414
M. Grubinger and C. Leung	
<i>3D Graphical Model Retrieval by Evolutionary Computation-based Adaptive Histogram Binning</i>	420
K. K. T. Cheung, R. H. S. Wong, and H. H. S. Ip	

Emerging Technologies for Visual Information Systems

<i>On the influence of image compression on the performance on content based image retrieval</i>	426
G. Schaefer and M. Stitch	
<i>An Approach to Image Compression Using Three-Dimensional DCT</i>	432
B. Furht and X. Li	

<i>Scale Saliency: Applications in Visual Matching, Tracking and View-Based Object Recognition</i>	436
J. S. Hare and P. H. Lewis	
<i>Model-based Lighting Normalization and its Application in Face Recognition</i>	441
Z. Lei and J. K. Wu	
<i>Image Mining using Inexact Maximal Common Subgraph of Multiple ARGs</i>	446
C. W. Ngo and H. Jiang	

Machine Intelligence in Content-based Retrieval

<i>Recent Parallel Methods for Image Content Interpretation</i>	450
T. Caelli	
<i>Video Summarization Using Greedy Method in a Constraint Satisfaction Framework</i>	456
L. Shi, I. King, and M. R. Lyu	
<i>Image Classification in the Compressed Domain</i>	462
C. I. Chiu, R. H. S. Wong, and H. H. S. Ip	
<i>Feature Integration, Multi-image Queries and Relevance Feedback in Image Retrieval</i>	467
Q. Iqbal and J. K. Aggarwal	
<i>A Model Learning Approach for Collection Fusion of Distributed Image Libraries</i>	475
S. Berretti, Alberto Del Bimbo, and P. Pala	

The 2003 International Workshop on Mobile Systems, E-commerce and Agent Technology

Agent-Based System

<i>A Smart IDS and Response System for Internet Worm Supported by Mobile Agent</i>	483
Jason C. Hung, Schummi Yang, Han-Bin Chang, and Louis H. Lin	
<i>An Agent-based Progressive Image Transmission Technology</i>	489
Jason C. Hung, Schummi Yang, Hsiau-Wen Lin, and Louis H. Lin	
<i>Designing an Agent-Based Learning Portfolio System</i>	493
Kuan-Cheng Lin, Shu-Huey Yang, Min-Tzu Wang, and Yi-Ping Huang	

<i>Designing an Agent-Based Teaching Portfolio System</i>	497
Kuan-Cheng Lin, Shu-Huey Yang, Yi-Ping Huang, and Min-Tzu Wang	
<i>Maintaining Mobile Agent in Distributed Environment</i>	501
Lawrence Y. Deng and Jen-Kuei Peng	

E-Commerce and Security

<i>Security Communication Architecture for Mobile Agents and E-commerce</i>	505
Ronggong Song and Larry Korba	
<i>Multimedia Computing Environment For Telemedical Applications</i>	510
V.K. Murthy	
<i>Automatic Key Replacement Mechanism Using UPnP for Home Network Security</i>	516
Tzu-Chi Hu and Cheng-Shun Liao	
<i>Simulation and Analysis of Telecom Business Processes using Agents</i>	522
Ram Dixit	

Wireless Network

<i>Rescue System Based on Location Aware Information Exchange in Mobile AdHoc Network.</i>	525
Andrey Nikolov, Shigeru Tubota, Terumasa Watanabe, Chikara Ohta, and Kuniaki Uehara	
<i>An Extenics-based Handover Algorithm for Supporting QoS in Wireless Cellular Network...</i>	531
Liang-Teh Lee, Chia-Ying Tseng, Chen-Feng Wu, Ching-Ren Wei, and Der-Fu Tao	
<i>Scheduled Share-Tree Multicasting for Bluetooth Networks</i>	535
San-Yuan Wang, Steen Hsu, Lain-Chyr Hwang, and Ching-Fen Hsieh	
<i>Access Control for Documents in Ad-hoc Networks</i>	541
Matei Ciobanu Morogan and Sead Muftic	

Agent Technology

<i>Modified Diffusion Dynamic Load Balancing Employing Mobile Agents</i>	545
Magdy Saeb and Cherine Fathy	
<i>Improving Distance Education System using Mobile Agents</i>	552
R. Ilayaraja and P. Selvaraju	
<i>SAMARA: Security Architecture Multi-Agent-based Risk Assessment Security Process Management</i>	557
Gustavo A. Santana Torrellas and Luis A. Villa	

<i>A Website-Model-Supported New Search Agent</i>	563
Sheng-Yuan Yang and Cheng-Seen Ho	

Internet Routing and Parallel Processing

<i>An Efficient Routing Protocol on Bluetooth Group-Scatternet Topology</i>	569
K. P. Shih, Chih-Yung Chang, Sean S. Wang, Jen-Hung Su, and Yan-Da Chen	
<i>Building a High Speed Switching System Based on the Ring Shift Register Switch Array</i>	575
Liang-Teh Lee, Der-Fu Tao, Ching-Ren Wei, Chen-Feng Wu, and Hung-Yuan Chang	
<i>A Data-Driven Architecture in Extenics Environment</i>	579
Liang-Teh Lee, Ching-Ren Wei, Chen-Feng Wu, and Der-Fu Tao	

The 2003 International Workshop on Cryptology and Network Security

Authentication and System Security

<i>Certificate Revocation System based on Peer-to-Peer CRL Distribution</i>	587
Matei Ciobanu Morogan and Sead Muftic	
<i>An Unsupervised Network Anomaly Detection System Using Random Projection Technique</i>	593
Hongmei Deng, Qing-An Zeng, and Dharma P. Agrawal	
<i>Securing Data Delivery in Ad Hoc Networks</i>	599
Wenjing Lou and Yuguang Fang	

System Security

<i>A Unified Approach To Detect Binding Based Race Condition Attacks</i>	605
Bharat Goya, Sriranjani Sitaraman, and S. Venkatesan	
<i>Role Authorisation with Role Based Access Control</i>	611
Anthony Rhodes and William Caelli	
<i>A Tampering Detection Mechanism using The Trusted Host for Mobile Agents</i>	618
Yuki Kotegawa and Kouichi Sakurai	

Cryptosystems Design and Analysis

<i>AA5: Another analogue cipher of A5</i>	624
Ya Zhang and Deng-Guo Feng	
<i>A methodology for numerical evaluation of the computational complexity of AES and Camellia</i>	628
G. Boato, F. Granelli and E. Tecchio	
<i>Information Security Projects: An Administration, Technology and Methodology Challenge</i> .	632
Leonardo García Rojas and Agustín F. Gutiérrez Tornes	
<i>The Characterization of Cryptographic Primitives and Their Security Properties</i>	636
Ashraf Bhery, Shigeki Hagihara, and Naoki Yonezaki	
<i>Non-Zero Entropy Ciphertexts (Stochastic Decryption) On The Possibility of One-Time-Pad Class Security With Shorter Keys</i>	643
Gideon Samid	
<i>Attacks on Non-Repudiation Cryptographic Protocol and Its Improvement</i>	647
Li Li, Li-Na Wang, and Huan-Guo Zhang	

Public key system and Digital signatures

<i>Forward-secure Undeniable Signatures with Fair Anonymity</i>	651
Song Han, Winson K.Y. Yeung, and Jie Wang	
<i>RSA-based Fail-Stop Signature Schemes Revisited</i>	657
Willy Susilo and Yi Mu	
<i>Verifiable Ring Signature</i>	663
Jiqiang Lv and Xinmei Wang	

Cryptanalysis and Security Test

<i>An equivalent expression of Rijndael algorithm</i>	668
Josef Pieprzyk and Xian-Mo Zhang	
<i>The Editing Generator and Its Cryptanalysis</i>	673
Guang Gong and Shaoquan Jiang	
<i>A glimpse to non-linear balanced Boolean functions</i>	679
Guillermo Morales-Luna	
<i>An Automatic Security Test Engine for IPv6 Network</i>	685
Hyeok Chan Kwon, Sang Choon Kim, Jae Hoon Nah, Taek Yong Nam, Sung Won Sohn	

New methods in security systems and information hiding

- Using trapdoor permutations in a complete subtree method* 691
Ryo Nojima and Yuichi Kaji
- Router Numbering Based Packet Marking* 698
Dequan Li, Purui Su, and Dengguo Feng
- A new method for embedding order recovery of digital watermarks* 704
Mario Gonzalez.-Lee, Mariko Nanako Miyatake, and Hector Perez-Meana

Security protocols in Network environment

- e-Mask - A Practical Approach to Ensure Anonymity and Accountability on Internet* 710
S. Canard, S. Guilloteau, E. Malville, and J. Traore
- An Efficient Distributed Password-Authenticated Key Exchange Protocol* 714
Xunhua Wang and Samuel Redwine
- Identity-based optimistic fair exchange with transparent signature recovery* 718
Shahrokh Saeednia, Olivier Markowitch, and Yves Roggeman
- EIGMP: Enhanced IGMP for secure multicast key management* 722
Jianping Wang, Qiong Zhang, and Biao Chen
- Private Certified E-mail Systems with Electronic Notice Board*..... 726
Kenji Imamoto and Kouichi Sakurai
- An adaptive secure multicast system supporting mobile working* 730
M. Blanc, C. Toinard, Mahery Andriambololona, L. Barther, Bruno Doolaeghe, M. Hervieux, K. K. Hassani, Pascal Lefeuvre, and T. Meurisse

The 2003 International Workshop on Distance Education Technologies

Communication Technologies

- A Broadcasting Scheme with Supporting VCR functions for Near Video-on-Demand Systems* 737
Yu-Wei Chen, Yi-Ta Lee, and Ming-Hsiang Tsai

<i>FTTB Broadband Service Problem Management</i>	743
C. Y. Chen, Lawrence Y. Deng, J. K. Peng, C. H. Chen, J. H. Wang, C. W. Chang, and L.S. Wu	
<i>Applying Wireless Technologies on Constructing a Mobile Learning Environment for Ubiquitous Learning</i>	747
Chih-Yung Chang, Kuei-Ping Shih, Shih-Chieh Lee, and Chih-Min Wang	
<i>Congestion Control of Bluetooth Radio System by Piconet Restructuring</i>	753
Gwo-Jong Yu and Chih-Yuan Chang	
<i>Add Long Distance Education to Business Modernization Management Mode ~ An Implementation in upgrading "Traditional Hand-Made" Business</i>	759
Huay Chang, Yong Su, Chih-Yung Chen, Shieh-Shing Lin, and Dong-Liang Lee	
<i>Using SOAP and .NET Web Service to Build SCORM RTE and LMS Mechanism</i>	765
Ko-Shung Chen, Timothy K. Shih, Nigel H. Lin, Wen-Chih Chang, and Keith Hsieh	

Educational Technologies

<i>Aligning Learning, Teaching and Assessment using Web-Based Portfolio Systems</i>	771
Kuan-Cheng Lin, Shu-Huey Yang, Min-Tai Chou, and Jeff T.C. Lee	
<i>An Automated Question Answering System for e-Learning</i>	776
Hui-huang Hsu, Schummi Yang, and Timothy K. Shih	
<i>Question and Test Authoring System based on SCORM</i>	782
Dong-Liang Lee, Lawrence Y. Deng, Timothy K. Shih, Wen-Chih Chang, Yi-Chun Liao, Hung-Chang Chen, and Hsiau-Wen Lin	
<i>Distance Learning Of Nondestructive Evaluation Education</i>	788
Rwei-Ching Chang, Chon-Gi Chen, and Tsai-Cheng Li	
<i>A Web-Base 3D Object search engine with Agent</i>	792
Chun-Hong Huang, Ching-Sheng Wang, and Lawrence Y. Deng	
<i>Development Strategy and Cooperation for Distance-learning between Taiwan and Mainland China</i>	798
Tang Jenn, Chin-Yung Chen, Dong-Liang Lee, and Jih-Fu Tu	

Intelligence Technologies

<i>Theoretical Model Study of Polarization Mode Dispersion in an Transverse Traveling-Wave Electro-Optic Phase Modulator</i>	802
Jian-Jyh Kao	
<i>Automobile SSD Alert System</i>	806
Ming-Chih Lu, Yin-Tuei Hsu, and Jih-Fu Tu	

<i>Exploiting Colored Petri Net to Displace Finite Static Machine for Modulo-P Counter</i>	810
Hsichien Yu, Jih-Fu Tu, Chih-Yung Chen, Jenn Tang, and Dong-Liang Lee	
<i>Exploiting the Request-queue Methodology for Implementing Processor Communication</i>	814
Chih-Yung Chen, Jih-Fu Tu, Jenn Tang, Dong-Liang Lee, and Hsichien Yu	
<i>Using Finite State Diagram for Modeling the Communication Among Processors</i>	818
Dong-Liang Lee, Chih-Yung Chen, Jih-Fu Tu, Hsichien Yu, Tsai-Cheng Li, and Jerry Tang	
<i>An Research In Intelligent Equipment for Earthquake Detecting</i>	824
Huay Chang, Rwei-Ching Chang, Shieh-Shing Lin, Chun-Liang Hsu, Cheng-Chien Kuo, and Tzu-Wei Yang	
<i>A Genetic based QoS Approach in Multimedia Services Architecture</i>	828
ChunHsien Chen, Teh-Sheng Huang, Lawrance Y. Deng, Hui-huang Hsu	
<i>VoiceXML Lite: A Standards-Based Framework For Speech-Enabling Applications</i>	
<i>Executing On Commodity Networked Mobile Devices.....</i>	833
Stuart Goose, Sreedhar Kodlahalli, Klaus Lukas	
<i>Reviewers.....</i>	838
<i>Authors' Index.....</i>	840