

International Association of Science
and Technology for Development

11th IASTED International Conference on Internet and Multimedia Systems and Applications

IMSA 2007

August 20 - 22, 2007
Honolulu, Hawaii, USA

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60423-345-2

Some format issues inherent in the e-media version may also appear in this print version.

ISBN: 978-1-60423-345-2

Copyright (2007) by ACTA Press.
All rights reserved.

For permission requests, please contact ACTA Press at the address below.

ACTA Press
Proceedings
Building B6, Suite #101,
2509 Dieppe Avenue S.W.
Calgary, AB
Canada T3E 7J9

journals@actapress.com

International Association of Science and Technology for Development
11th IASTED International Conference on Internet
and Multimedia Systems and Applications
2007

TABLE OF CONTENTS

Applications

577-026 A Digital Artwork Expression Language (DAEL)	1
<i>R. Smith</i>	
577-037 A New Digital Literature Retrieval System based on Information Analysis	7
<i>C. Chen, X. Ji, L. He, L. Tian</i>	
577-049 An Innovative Lab Environment for Supporting Hands-On Networking Exercises to Distance Learning Students	13
<i>J. T. Yu</i>	
577-051 Edureflex: A Light Weight Class Reflection Tool for Teaching Improvement through Video-Recording with "Clickers"	18
<i>T. Nakajima</i>	
577-053 MVC Extension: Evaluation According to Rating Criteria and Possible Integration	24
<i>J. Dargham</i>	
577-059 Object-Oriented Case-based Reasoning System for New Product Development	30
<i>C. T. Ho</i>	
577-073 An Efficient Scheme for Data Aggregation with Star-Graph Hierarchical Clustering Structure in Wireless Sensor Networks	36
<i>T.-S. Su, W.-S. Hsieh</i>	
577-082 A Three Dimensional Box Counting Method for Measuring Fractal Dimensions of 3D Models	42
<i>M. T. Suzuki</i>	
577-093 The Chinese Speech Emotion Interaction and Recognition on Internet	48
<i>K.-M. Chen, M.-J. Wang, H.-W. Niu, K.-C. Chiang</i>	
577-048 BabyMobile: Virtual Baby Visit at the Hospital using UMTS	54
<i>R. Spanjers, A.-F. Rutkowski, M. van Genuchten</i>	
577-072 Visually Imperceptible Image Hiding Scheme Based on VQ	57
<i>S.-C. Shie, S. D. Lin</i>	
577-081 A Media Handover System with an IrDA Pointer	62
<i>E. Kamioka, S. Yamada</i>	
577-086 Improving QOS in Unicast and Multicast IP-Based Networks through Capacity Planning	68
<i>M. Hoang</i>	
577-090 E-Ticketing with Visual Seat Allocation for Entertainment Industry	74
<i>A. Gautam, H. Shi</i>	
577-091 An Algorithm for Matching Resource Based on Semantics and QOS in Manufacturing Grid	80
<i>Y. He, T. Yu, D. Hu</i>	

577-103 Distributed Architecture System for Monitoring Intensive Care Patients	85
<i>M. A. Pereira, J. Pereira, A. Curra, R. Rivas, G. Banos, A. Pazos, J. Teijeiro</i>	
577-106 Lane Detection using Support Vector Machines.....	91
<i>S. Kim, J. Park, S. I. Cho, S. Park, K. Choi</i>	
577-101 Scalable Integer Based Frequency Error Estimation Technique for Clock Recovery in Packet Switched Networks.....	96
<i>M. Mathur, K. Saha</i>	

Web and Internet Systems and Tools

577-024 A New Algorithm for Tree Mapping in XML Databases.....	102
<i>Y. Chen</i>	
577-012 Hierarchical Scheduling Mechanism for Grid Systems.....	108
<i>K. Park, C. Kang, C. Choi, D. Shin</i>	
577-040 Quality of Web Search Quantification, Standardization and Representation.....	114
<i>D. J. Baishya</i>	
577-038 Access Control System to XML Databases - A Framework.....	120
<i>K. A. Islam, Y. Watanabe</i>	
577-058 WSNView System for Wireless Sensor Network Management.....	126
<i>J.-L. Chen, H.-F. Lu, M.-Y. Lee</i>	
577-107 A Web-Based Control System.....	132
<i>A. Malek-Zadeh, H. Dietsch</i>	
577-095 Workload Characterization for the Multimedia Files Embedded in the Popular Web Pages.....	139
<i>A. Abhari, M. Soraya</i>	
577-066 Design of an Optical Internet Switch Fabric.....	145
<i>N. F. Mir</i>	
577-014 Estimating Geographical Position of Nodes in the Internet.....	151
<i>H. Mousavi, M. Semnani, M. E. Rafiei, A. Movaghar</i>	

Data Management

577-015 Loculus: A Metadata Wrapper for Digital Motion Pictures.....	157
<i>S. Choudhury, B. Pham, R. Smith, P. Higgs</i>	
577-009 Server Decision Making Process for the Wireless Network Environment.....	163
<i>J. Tsiligaridis, R. Acharya</i>	
577-036 Temporal Reasoning System for the Digital Theater Library.....	171
<i>S. Yoshioka, S. Tani, S. Toda, M. Morii, K. Kohno</i>	
577-044 Iterative Incremental Shot Clustering Algorithm by Haar Wavelets.....	178
<i>J. Liao, G. Wang, B. Zhang, Miao Li</i>	
577-047 A Methodology of Translation of Sentences into Iconic Expressions.....	184
<i>K. Fujisawa, K. Aihara</i>	
577-087 A Study on Agent for Integration of Scattered Human Resources Information.....	188
<i>H.-J. Han, J.-H. Park, I.-Y. Yeo, K.-R. Shon, Y.-H. Yae</i>	

Multimedia Information Systems

577-076 An Efficient Patch Transmission Scheme for P2P Video Streaming	194
<i>C.-F. Kao, C.-N. Lee, P.-J. Wu, J.-Y. Wang</i>	
577-025 Adaptive Embedding Tolerance Based on Motion Characteristics for Imperceptible Video Watermarking.....	198
<i>L. Zhi, S. Yamamoto, Y. Takashima, X.-W. Chen</i>	
577-083 A Cost-Effective Allocation Scheme for Contents and Video Servers in Content Networks	205
<i>M. Li, C.-H. Wu</i>	
577-088 Content-Based Summarization of Foreign Language Learning Video Using Multiple MPEG-7 Visual Features.....	211
<i>H.-J. Han, I.-Y. Yeo</i>	
Author Index	