

**List of Publications
Apr 2006 to Mar 2007**Department : **COMPUTER SCIENCE****ARTICLE IN JOURNAL****INTERNATIONAL REFEREED**PUBLISHED

- @ 1. ZIMMERMANN, R, "Zoned-RAID". *ACM Transactions on Storage*, 3, no. 1 (2007). (United States).
Publication no. 0354054
2. Akanksha, G, Z Y Huang, B Prabhakaran and JR. C. R. Ruiz,, "Animation Toolkit Based on Database Approach for Reusing Motions and Models". *MULTIMEDIA TOOLS AND APPLICATIONS*, 32, no. 3 (2007): 293-327. (Netherlands). (Rank: Tier 2).
Publication no. 0211015
- @ 3. Atrey, P.K., M S Kankanhalli* and J.B. Oommen, "Goal-Oriented Optimal Subset Selection of Correlated Multimedia Streams". *ACM Transactions on Multimedia Computing, Communications and Applications*, 3, no. 1 (2007). (United States).
Publication no. 0328173
- @ 4. Yan, W.Q. and M S Kankanhalli*, "Multimedia Simplification for Optimized MMS Synthesis". *ACM Transactions on Multimedia Computing, Communications and Applications*, 3, no. 1 (2007). (United States).
Publication no. 0328171
5. Wan*, Z, R.H. Deng, Feng Bao and A L Ananda*, "Access control protocols with two-layer architecture for wireless networks". *Computer Networks*, 51, no. 3 (2007): 655 - 670. (Netherlands). (Rank 1).
Publication no. 0323968
6. Yuan*, B and C L Tan, "Convex hull based skew estimation". *PATTERN RECOGNITION*, 40, no. 2 (2007): 456-475. (United Kingdom).
Publication no. 0311729
7. Ong*, G H and Lixin Fan, "An Efficient Parallel Algorithm for Hexagonal-based Fractal Image Compression". *INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS*, 84, no. 2 (2007): 203-218. (United Kingdom).
Publication no. 0311644

8. ZIMMERMANN, R, "VCA: An Energy-Efficient Voting-Based Clustering Algorithm for SensorNetworks". *JOURNAL OF UNIVERSAL COMPUTER SCIENCE*, 13, no. 1 (2007): 87-109. (United States).
Publication no. 0354070

9. Zhu, B, J.K. Wu and M S Kankanhalli*, "Render Sequence Encoding for Electronic Document Authentication". *IEEE TRANSACTIONS ON MULTIMEDIA*, 9, no. 1 (2007): 16-24. (United States).
Publication no. 0328172

10. Pang, Boon Chuan, K VELLAISAMY, J ROHIT, Hongli Yin, Kah Keow Lee, Beng Ti Ang, Jinyan Lee, T Y Leong and Ivan Ng, "Hybrid Outcome Prediction Model for Severe Trauma Brain Injury". *JOURNAL OF NEUROTRAUMA*, 24, no. 1 (2007): 136-146. (United States). ((Rank: Leading)).
Publication no. 0327783

11. Jain, S, Yen Kaow Ng and Tiong Seng Tay, "Learning Languages in a Union". *JOURNAL OF COMPUTER AND SYSTEM SCIENCES*, 73, no. 1 (2007): 89-108. (United States). (Premium).
Publication no. 0323997

12. Sulzmann, M, "Understanding functional dependencies via constraint handling rules". *JOURNAL OF FUNCTIONAL PROGRAMMING*, 17, no. 1 (2007). (United Kingdom). (rank1).
Publication no. 0314682

13. Rodrigues, Fiona, Mitali Sarkar-Tyson, Sarah V Harding, Siew Hoon Sim, Hui Hoon Chua, Chi Ho Lin, Xu Han, R Krishna M Karuturi, W K Sung, Kun Yu, Wei Chen, Timothy P Atkins, Richard W Titball and Tan Patrick*, "A Global Map of Growth Regulated Gene Expression in *Burkholderia pseudomallei*, the Causative Agent of Melioidosis". *JOURNAL OF BACTERIOLOGY*, 188, no. 23 (2006): 8178-8188. (United States).
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14. Guo, S., Z Y Huang, H. V. Jagadish, B C Ooi and Z. Zhang, "Relaxed Space Bounding for Moving Objects: A Case for the Buddy Tree". *SIGMOD Record*, 35, no. 4 (December 2006): 24-29. (United States). (Rank: Tier 2).
Publication no. 0342672

15. Zhang, Y and R H C Yap, "Set Intersection and Consistency in Constraint Networks". *JOURNAL OF ARTIFICIAL INTELLIGENCE RESEARCH*, 27 (2006): 441-464. (United States).
Publication no. 0341903

16. Atrey, P.K., M S Kankanhalli* and R Jain, "Information Assimilation Framework for Event Detection in Multimedia Surveillance Systems". *ACM Multimedia Systems*, 12, no. 3 (2006): 239-253. (United States).
Publication no. 0328174

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18. Chang, E C, Sung Woo Choi, Hyungju Park, DoYong Kwon and Chee Yap, "SHORTEST PATH AMIDST DISC OBSTACLES IS COMPUTABLE". *INTERNATIONAL JOURNAL OF COMPUTATIONAL GEOMETRY & APPLICATIONS*, 16 (2006): 567-590. (Singapore). (Rank 2).
Publication no. 0320915
19. Chong*, Ket Fah, Kang Ning, H W Leong* and Pavel Pevzner, "Modelling and Characterization of Multi-Charged Mass Spectra for Peptide Sequencing". *Journal of Bioinformatics and Computational Biology*, 4, no. 6 (2006): 1329-1352. (Singapore). (Tier 3).
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21. Yu*, XINGUO, H W Leong*, CHANGSHENG Xu and Qi Tian, "Trajectory-based Ball Detection and Tracking in Broadcast Soccer Video". *IEEE TRANSACTIONS ON MULTIMEDIA*, 8, no. 6 (2006): 1164-1178. (United States). (Tier 2).
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22. Zeller*, Karen I., XiaoDong Zhao*, Charlie W. H. Lee, Kuo Ping Chiu, Hong Sain Ooi, Fei Yeo, Atif Shahab, How Choong Yong, YuTao Fu, Zhiping Weng, Vladimir A. Kuznetsov, W K Sung, Yijun Ruan, Chi V. Dang* and Chia-Lin Wei*, "Global Mapping of c-Myc Binding Sites and Target Gene Networks in Human B Cells". *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 103, no. 47 (2006): 17834-17839. (United States).
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Publication no. 0353900
- @ 24. Madhwacharyula, C, M Davis, P Mulhem and M S Kankanhalli*, "Metadata Handling: A Video Perspective". *ACM Transactions on Multimedia Computing, Communications and Applications*, 2, no. 4 (2006): 358-388. (United States).
Publication no. 0328170

25. Lu*, W and M Kan, "Supervised Categorization of Javascript using Program Analysis Features". *INFORMATION PROCESSING & MANAGEMENT*, 43, no. 2 (Regular) (2006): 431-444. (United States). (Leading Rank).
Publication no. 0314876
26. Li, X, A Roychoudhury* and T Mitra*, "Modeling Out-of-order Processors for WCET Analysis". *REAL-TIME SYSTEMS*, 34, no. 3 (2006): 195-227. (Netherlands). (RANK 1 PREMIUM JOURNAL).
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27. Case, JOHN, S Jain, RUDIGER Reischuk, Frank Stephan and THOMAS Zeugmann, "Learning a Subclass of Regular Patterns in Polynomial Time". *THEORETICAL COMPUTER SCIENCE*, 364, no. 1 (Special Issue on Algorithmic Learning Theory (ALT 2003)) (2006): 115-131. (Netherlands). (Rank 2 (leading)).
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28. Emmanuel, S and M S Kankanhalli*, "Mask-based Fingerprinting Scheme for Digital Video Broadcasting". *MULTIMEDIA TOOLS AND APPLICATIONS*, 31, no. 2 (2006): 145-170. (Netherlands).
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29. Jansson*, Jesper and W K Sung*, "Inferring a Level-1 Phylogenetic Network from a Dense Set of Rooted Triplets". *THEORETICAL COMPUTER SCIENCE*, 363, no. 1 (2006): 60-68. (Netherlands).
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Publication no. 0341630
31. Kankanhalli*, M S, J Wang and R Jain, "Experiential Sampling on Multiple Data Streams". *IEEE TRANSACTIONS ON MULTIMEDIA*, 8, no. 5 (2006): 947-955. (United States).
Publication no. 0328168
32. Kankanhalli*, M S, J Wang and R Jain, "Experiential Sampling in Multimedia Systems". *IEEE TRANSACTIONS ON MULTIMEDIA*, 8, no. 5 (2006): 937-946. (United States).
Publication no. 0328167
33. Liu, Edison T, Vinsensius B Vega*, Chin-Yo Lin*, Koon Siew Lai, Say Li Kong, Min Xie, Xiaodi Su, Huey Fang Teh, Jane S Thomsen, Ai Li Yeo, W K Sung* and Guillaume Bourque, "Multiplatform genome-wide identification and modeling of functional human estrogen receptor binding sites". *GENOME BIOLOGY*, 7, no. R82 (2006). (United Kingdom).
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34. ZIMMERMANN, R, "A Distributed Geotechnical Information Management and Exchange Architecture". *IEEE INTERNET COMPUTING*, 10, no. 5 (Web Services for Geographic Information Systems) (2006): 26-33. (United States).
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35. Ma, X, H Pang and K L Tan, "Masking Page Reference Patterns in Encryption Databases on Untrusted Storage". *DATA & KNOWLEDGE ENGINEERING*, 58, no. 3 (2006): 466-483. (Netherlands).
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36. Chowdhary*, R, S. L. Tan, R. A. Ali, B. Boerlage, L WONG and V. B. Bajic, " Dragon Promoter Mapper (DPM): A Bayesian Framework for Modeling Promoter Structures". *BIOINFORMATICS*, 22, no. 18 (2006): 2310-2312. (United Kingdom). (tier 1).
Publication no. 0339617
37. He*, Q and T W Ling*, "An ontology based approach to the integration of entity-relationship schema". *DATA & KNOWLEDGE ENGINEERING*, 58, no. 3 (2006): 299-326. (Netherlands).
Publication no. 0324727
38. Lim*, C W and T S Tan*, "Surface Reconstruction by Layer Peeling". *VISUAL COMPUTER*, 22, no. 9-11 (Special Issue on Proceedings of Pacific Graphics 2006) (2006): 593-603. (Germany). (Special Issue of the Proceedings of the 14th Pacific Conference on Computer Graphics and Applications (Pacific Graphics) held on October 11 to 13, 2006 in Taipei, Taiwan.).
Publication no. 0311681
39. Venkatesh, S O, LILLYKUTTY Jacob and A L Ananda, "Secure Performance Enhancing Proxy: To Ensure End-to-End Security and Enhance TCP Performance over IPv6 Wireless Networks". *Computer Networks*, 50, no. 13 (monthly) (2006): 2225-2238. (Netherlands). (Rank 1).
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- @ 43. Li*, Y F, Dr. Sun*, Dr. Dobbie, Dr. Wang and Dr. Sun*, "Reasoning about ORA-SS Data Models using the Semantic Web". *Journal on Data Semantics VII*, 4244, no. 0302-9743 (2006): 219-241. (Germany).
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- @ 44. Wijaya, D. and S Bressan*, "Clustering Web Documents Using Co-citation, Coupling, Incoming, and Outgoing Hyperlinks: a Comparative Performance Analysis of Algorithms". *International Journal of Web Information Systems*, 2, no. 2 (2006). (United Kingdom).
Publication no. 0318014
45. Cheng, C. K. K. and R H C Yap, "Applying Ad-hoc Global Constraints with the case Constraint to Still-Life". *Constraints Journal*, 11, no. 2-3 (2006): 91-114. (United States).
Publication no. 0315453
46. Yoong*, Cheah Huei and H K Pung*, "A Framework for Shared Time-Slot TDM Wavelength Optical WDM Networks". *Journal of Optical Networking*, 5, no. 7 (2006): 554-567. (United States).
Publication no. 0315033
47. Jarzabek*, S and S Li, "Unifying Clones with a Generative Programming Technique: a Case Study". *Journal of Software Maintenance - Research and Practice*, 18, no. 4 (2006): 267-292. (United Kingdom). (leading).
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51. Chua*, H. N., W K Sung and L WONG, "Exploiting Indirect Neighbours and Topological Weight to Predict Protein Function from Protein-Protein Interactions". *BIOINFORMATICS*, 22, no. 13 (2006): 1623-1630, 8. (United Kingdom). (Tier 1).
Publication no. 0311591

- @ 52. Chowdhary*, R., L WONG and V. B. Bajic, "Finding Functional Promoter Motifs By Computational Methods: A Word of Caution". *International Journal of Bioinformatics Research and Applications*, 2, no. 3 (2006): 282-288. (United Kingdom). (Unranked).
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53. Andrei*, S, W N Chin, M. K. Cheng Albert and M Lupu Mihai, "Automatic Debugging of Real-Time Systems based on Incremental Satisfiability Counting". *IEEE TRANSACTIONS ON COMPUTERS*, 55, no. 9 (2006): 830-842. (United States). (rank 1
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Publication no. 0306425
54. Lu, Hong, B C Ooi, Heng Tao Shen and Xiangyang Xue, "Hierarchical Indexing Structure for Efficient Similarity Search in Video Retrieval". *IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING*, 18, no. 11 (2006): 1544-1559, 16. (United States).
Publication no. 0326967
55. Zhang*, J, H Liu, T W Ling*, R M Bruckner and A M Tjoa, "A Framework for Efficient Association Rule Mining in XML Data". *Journal of Database Management*, 17, no. 3 (2006): 19-40. (United States).
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56. Wang, H, J S Dong, S Jarzabek and J Sun*, "CAD System Family Architecture and Verification: An Integrated Formal Approach". *IEE PROCEEDINGS-SOFTWARE*, 153, no. 3 (2006): 102-112. (United Kingdom). (leading).
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Publication no. 0217908

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65. Low*, K H, W K Leow and M H Jr Ang, "Autonomic Mobile Sensor Network with Self-Coordinated Task Allocation and Execution". *IEEE Transactions on Systems, Man and Cybernetics Part C - Applications and Reviews*, 36, no. 3 (2006): 315-327. (United States).
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- @ 67. Wang*, Dr., J S Dong*, Dr. Sun* and Dr. Sun*, "Reasoning Support for Semantic Web Ontology Family Languages Using Alloy". *International Journal of Multiagent and Grid Systems*, 2, no. 4 (2006). (Netherlands).
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- @ 68. Xu, C.S., X Shao, N.C. Maddage, M S Kankanhalli*, Q Tian and J.S. Jin, "Automatic Summarization of Music Videos". *ACM Transactions on Multimedia Computing, Communications and Applications*, 2, no. 2 (2006): 127-148. (United States).
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74. ZIMMERMANN, R, "Adaptive Low-latency Peer-to-Peer Streaming and Its Application". *MULTIMEDIA SYSTEMS*, 11, no. 6 (2006): 497-512. (Germany).
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75. Jansson, Jesper, Trung Hieu Ngo* and W K Sung*, "Local Gapped Subforest Alignment and Its Application in Finding RNA Structural Motifs". *JOURNAL OF COMPUTATIONAL BIOLOGY*, 13, no. 3 (2006): 702-718. (United States).
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Publication no. 0331118

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- @ 95. Wang*, H, J S Dong* and J Sun*, "Reasoning Support for Semantic Web Ontology Family Languages Using Alloy". *International Journal of Multiagent and Grid Systems*, 2, no. 3 (2006). (Netherlands).
Publication no. 0314838
- @ 96. Yuan*, L, H Basit, J S Dong* and J Sun, "Generic Fault Tolerant Software Architecture Reasoning and Customization". *IEEE Transactions on Reliability*, (2006). (United States).
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97. Pung, H K, "Approximation Capability of Orthonormal Feedforward Neural Networks". *NEUROCOMPUTING*, (2007). (Netherlands).
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- @ 98. Jayaseelan, R, H LIU and T Mitra*, "Exploiting Forwarding to Improve Data Bandwidth of Instruction-Set Extensions.". *ACM Transactions on Computer Architecture and Code Optimizations*, (2006). (United States). (Under first revision).
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99. SOO*, Y J and C K Yuen, "Enable Speculative Superscalar Execution for Stack-Based Architecture". *IEEE TRANSACTIONS ON COMPUTERS*, (2006). (United States).
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PRESENTED BUT NOT PUBLISHED

213. Leong, H W, "Algorithms for Peptide Sequencing from Tandem Mass Spectrometry". *NUS Office of Life Science Conference* (5 - 6 Feb 2007, NUS Office of Life Sciences, Singapore) (Others (invited talk)).
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ACCEPTED FOR PUBLICATION

214. Chen*, C Q and J S Dong*, "Applying Timed Interval Calculus to Simulink Diagrams". *8th International Conference on Formal Engineering Methods (ICFEM'06)* (, conference center, Macau, China) (rank-2).
Publication no. 0315738
215. Dong*, J S, P Hao, J Sun* and X Zhang*, "A Reasoning Method for Timed CSP based on Constraint Solving". *8th International Conference on Formal Engineering Methods (ICFEM'06)*, (, conference center, Macau, China) (rank-2).
Publication no. 0315737
216. Dong*, J S, Y Liu*, J Sun* and X Zhang, "Verification of Computation Orchestration via Timed Automata". *8th International Conference on Formal Engineering Methods (ICFEM'06)* (, conference center, Macau, China) (rank-2).
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217. Andrei*, S, W N Chin and Martin Rinard, "Incremental Deterministic Planning". *International Symposium on Symbolic and Numeric Algorithms for Scientific Computing* (26 - 29 Sep 2006, University of the West, Timisoara, Romania)
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218. Cheng, H, "Quality Tetrahedral Mesh Generation for Macromolecules". *International Symposium on Algorithms and Computation* (Plenary paper) (18 - 20 Dec 2006, India, Kolkata, India)
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219. Sulzmann, M, "Type Processing by Constraint Reasoning". *APLAS'06* (Invited paper) () (rank2).
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220. Wang, Y, "Low Level Descriptors for Automatic Violin Transcription". *ISMIR 2006* (8 - 12 Oct 2006, Victoria, Canada)
Publication no. 0314835
221. Sulzmann, M, " Principal type inference for GHC-style multi-parameter type classes". *aplas 2006* (, sydney, australia, Afghanistan) (rank2).
Publication no. 0314681
222. Sulzmann, M, "Modular generic programming with extensible superclasses". *WGP'06* (, portland, usa, Afghanistan) (rank2).
Publication no. 0314680
223. Sulzmann, M and R Voicu, "Language-Based Program Verification via Expressive Types". *Programming Languages meets Program Verification* (, Seattle, United States)
Publication no. 0314635

ACCEPTED FOR PRESENTATION

224. Xiao, Wei and E W Chionh*, "Bracket Producing Rows and Columns of the Dixon Determinant". *SYNASC 2006* (, Dept. of Computer Science, West University, Timisoara, Romania)
Publication no. 0325403
225. Hao, P, J S Dong*, J Sun and X Zhang, "Reasoning about Timed CSP Models". *14th International Symposium on Formal Methods (FM'06)* (, McMaster University, Hamilton, Canada) (rank-1 research demo track).
Publication no. 0315739
226. Sulzmann, M, " Language-based program verification via expressive types". *PLPV'06*. (, seattle, usa, Afghanistan)
Publication no. 0314679

SUBMITTED FOR PUBLICATION

227. Gu*, T, H K Pung* and D Zhang, "An Ontology-based DHT Approach to Service Discovery". *4th International Conference on Service Oriented Computing* (, Chicago, United States)
Publication no. 0323355

POSTER PRESENTATION

PUBLISHED

228. Bhunre*, P. K., W K Leow* and T. S. Howe, "Recovery of 3D Pose of Bones in Single 2D X-ray Images". *Proceedings of IEEE Workshop on Applications of Computer Vision* (2007). United States: IEEE. (IEEE Workshop on Applications of Computer Vision, 21 - 22 Feb 2007, Austin, United States)
Publication no. 0339239
229. Zhou, J and A Golam*, "Hardware Accelerated Skin Deformation for Animated Crowds". *Multimedia Modeling* (2007): 226-237. Singapore: ACM. (Multimedia Modeling 2007, 9 - 12 Jan 2007, NTU, Singapore)
Publication no. 0356496
230. Atrey, P K, M S Kankanhalli* and A E Saddik, "Confidence Building among Correlated Streams in Multimedia Surveillance Systems". *International Conference on Multimedia Modeling* (2007): 155-164. Berlin: Springer-Verlag. (International Conference on Multimedia Modeling (MMM 2007), 9 - 12 Jan 2007, NTU, Singapore) (Rank 3).
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231. KU, C C W, "Metadata Management, Reuse, Inference & Propagation in a Collection-Oriented Metadata Framework for Digital Images". *Advances in Multimedia Proceedings* (2007). Singapore: Springer. (International MultiMedia Modeling Conference, 9 - 12 Jan 2007, Nanyang Technological University, Singapore)
Publication no. 0354098
232. KU, C C W, "Using Camera Settings Templates to Classify Photos". *International Workshop on Advanced Image Technology 2007* (2007). Bangkok: TESA. (International Workshop on Advanced Image Technology, 8 - 9 Jan 2007, Grand Mercure Fortune Hotel, Bangkok, Thailand)
Publication no. 0354093
233. ZIMMERMANN, R, "PartyPeer: a P2P based Massively Multiplayer Online Game". *14th ACM International Multimedia Conference* (2006): 507-508. New York: ACM Press. (ACM International Multimedia Conference, 22 - 28 Oct 2006, Fess Parker Double-Tree Resort, Santa Barbara, United States)
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234. ZIMMERMANN, R, "Supporting Guaranteed Continuous Media Streaming in Mobile Ad-hoc Networks with Link Availability Prediction". *14th ACM International Multimedia Conference* (2006): 153-156. New York: ACM Press. (ACM International Multimedia Conference, 22 - 28 Oct 2006, Fess Parker Double-Tree Resort, Santa Barbara, United States)
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235. CRACIUN*, Florin, H Y Goh, C C POPEEA and W N Chin, "Core-Java : An Expression-Oriented Java". *Companion to the 21th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA 2006* (2006). New York: ACM Press. (21th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA 2006, 22 - 26 Oct 2006, Portland, Oregon, United States) (Rank 2).
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236. Neo, Shi Yong, Yan Tao Zheng, T S Chua* and Tian Qi, "News Video Search with Fuzzy Event Clustering using High-level Features". *ACM Multimedia 2006*, ed. -, comp. - (2006). New York: ACM. (ACM Multimedia 2006, 23 - 27 Oct 2006, -, Santa Barbara, United States)
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237. Marchenko, Yelizaveta, T S Chua* and Ramesh Jain, "Transductive Inference using Multiple Experts for Brushwork Annotation in Paintings Domain". *ACM Multimedia 2006*, ed. -, comp. - (2006). New York: ACM. (ACM Multimedia 2006, 23 - 27 Oct 2006, -, Santa Barbara, United States)
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238. Lu*, S and C L Tan, "Automatic document orientation detection and categorization through document vectorization". *ACM MM 2006* (2006). New York: ACM. (ACM Multimedia Conference, 23 Oct 2006 - 27 Oct 2007, Double Tree Resort Hotel, Santa Barbara, United States) (rank 1).
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