

**MIS'99**  
**Fifth International Workshop**  
**on**  
**MULTIMEDIA INFORMATION SYSTEMS**  
**October 21-23, 1999, Miramonte Resort, Indian Wells, California**  
**FINAL PROGRAM**

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**Wednesday, October 20, 1999**

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**18:00 - 20:00** Welcoming Reception

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**Thursday, October 21, 1999**

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**8:30 - 9:15** Registration and Breakfast

**9:15 - 9:30** Introductory Remarks

Satish Tripathi (UC Riverside)

Leana Golubchik (U. of Maryland)

Vassilis J. Tsotras (UC Riverside)

David Hislop (US Army Research Office)

**9:30 - 10:30** Session 1: INVITED TALK (Session Chair TBA)

“Recent Advances in Multimedia Systems Research”,

H. Garcia-Molina (Stanford University)

**10:30 - 11:00** Coffee Break

**11:00 - 12:00** Session 2: Feature Extraction (Session Chair TBA)

“On Fingerprinting Images for Recognition”, N.F. Johnson, Z. Duric and S. Jajodia  
(George Mason University)

“Feature Relevance Estimation for Image Databases”, J. Peng and B.Bhanu (UC  
Riverside)

**12:00 - 13:30** Working Lunch (Group Leaders TBA)

**13:30 - 14:45** Session 3: PANEL (Session Chair: A. Ghafoor)

“Multimedia Databases: Challenges and Promises”. Panelists: A. Ghafoor (Purdue  
University), A. Zhang (SUNY Buffalo), A. Khokhar (University of Delaware)

**14:45 - 15:30** Session 4: Demos (refreshments will be served)

**15:30 - 17:00** Session 5: Querying Multimedia Databases (Session Chair TBA)

“Finite Graph Algebras for Querying Interactive Multimedia Presentation  
Databases”, S. Adali (Rensselaer Polytechnic Institute), M.L. Sapino, M. Schenone  
(Universita di Torino) and V.S. Subrahmanian (University of Maryland)

“Indexing Animated Objects”, G. Kollios (Polytechnic University), D.Gunopulos  
and V.J. Tsotras (UC Riverside)

“Modeling Shapes in an Image Database System”, V. Oria, M.T. Ozsu, L.I. Cheng,  
P.J. Iglinski and Y. Leontiev (University of Alberta)

**17:30 - 19:30** Dinner (at the Miramonte Resort)  
**19:30 - 22:00** Bus to "Villagefest" at Palm Springs

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### **Friday, October 22, 1999**

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**8:30 - 9:00** Breakfast

**9:00 - 10:00** Session 6: INVITED TALK (Session Chair TBA)  
"Sensors and Memory: Managing Context Data for Situated Applications",  
R.R. Muntz (UCLA)

**10:00 - 10:30** Coffee Break

**10:30 - 11:30** Session 7: Distributed Multimedia Architectures (Session Chair TBA)  
"Autonomous Disks: The Building Block for a Scalable Distributed File System",  
C. Akinlar, W.G. Aref, I. Kamel and S. Mukherjee (Panasonic Technologies, Inc.)  
"A Distributed Image-Database Architecture for Efficient Insertion and Retrieval",  
R. Weber and H.J. Schek (ETH Zurich)

**11:30 - 13:00** Working Lunch (Group Leaders TBA)

**13:00 - 14:15** Session 8: PANEL (Session Chair: R.R. Muntz)  
"Hollywood: Multimedia Challenges and Opportunities". Panelists: R.R. Muntz  
(UCLA), R. Feeney (Silicon Grail and RFX), W. Aylsworth (Warner Bros.), Q. Ellis  
(QB, Inc.).

**14:15 - 15:00** Session 9: Demos (refreshments will be served)

**15:00 - 16:00** Session 10: INVITED TALK (Session Chair TBA)  
"Multimodal Impact on Multimedia",  
R.L. Storms (US Army)

**16:00 - 17:30** Session 11: Potpourri (Session Chair TBA)  
"Facilitating Spatio-Temporal Operations in a Versatile Video Database System", S.  
Chan and Q. Li (City University of Hong Kong)  
"OMMMA: An Object-Oriented Approach for Modeling Multimedia Information  
Systems", S. Sauer and G. Engels (University of Paderborn)  
"Collaborative Project Management with a Web-based Database Editor", R. Gillner  
(FH Fulda), L. Wegner and C. Zirkelbach (Univ. Gh Kassel)

**19:00 - 21:00** Bus to Banquet.

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### **Saturday, October 23, 1999**

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**8:00 - 8:30** Breakfast

**8:30 - 10:00** Session 12: Networking and Performance Evaluation (Session Chair TBA)  
"Minimizing Bandwidth Requirements for On-Demand Data Delivery", D. Eager  
(Univ. of Saskatchewan), M. Vernon (Univ. of Wisconsin) and J. Zahorjan (Univ. of  
Washington)  
"Optimizing Profits in the Broadcast Delivery of Multimedia Products", C.C.  
Aggarwal, M.S. Squillante, J.L. Wolf, P.S. Yu (IBM T.J. Watson) and J. Sethuraman  
(Massachusetts Institute of Technology)

“Performance Evaluation of Explicit Congestion Notification (ECN) in IP networks”, U. Ahmed, I. Lambadaris, T. Kunz (Carleton University), J.H. Salim, B. Nandy and N. Seddigh (Nortel Networks)

**10:00 - 10:45** Group Leaders Report

**10:45 - 11:00** Coffee Break

**11:00 - 12:30** Session 13: Interactive Multimedia Systems (Session Chair TBA)

“Deriving an Optimal Synchronization Interval for Supporting View Consistency in a Distributed Virtual Environment”, J.C.S. Lui, O.K.Y. So and P.T.S. Tam (The Chinese University of Hong Kong)

“Immersidata Management: Challenges in Management of Data Generated within an Immersive Environment”, C. Shahabi, G. Barish, B. Ellenberger, M. Kolahdouzan, N. Jiang, S-R Nam and R. Zimmerman (University of Southern California)

“Resource Prediction for Admission Control of Interactive Multimedia Sessions”, S. Hollfelder and K. Aberer (GMD-IPSI)

**12:30 -12:45** Closing Remarks, Satish Tripathi (UC Riverside)