CONTENTS

1. MESSAGE FROM THE GENERAL CO-CHAIRS

Welcome to the Thirteenth ACM International Conference on Multimedia (ACM MM 2005) held in Singapore from 6 – 11 November 2005 at the Hilton Hotel.

ACM Multimedia is the premier academic conference in multimedia. The series started in 1993, at the start of multimedia era, and has quickly developed into the top conference in the field. Over the years, the concept of multimedia has evolved, from research in separate "non-textual" media such as image, video and audio in the early years, to truly "multimedia" approaches integrating information of multiple medium types, including text and metadata, in recent years. Today, the conference covers a wide range of topics on the foundations of multimedia, as well as multimedia applications, content and systems.

The pervasive use of multimedia has permeated into almost every aspect of our life. This is reflected in a wide variety of programs incorporated into the conference. The conference features the usual high-quality technical paper presentations, short poster paper presentations, doctoral symposium for senior graduate students, brave-new emerging topics, as well as tutorials and workshops in various topical areas. One key aspect of this conference that is different from most other academic conferences is its emphasis on systems and applications. To this end, the conference also includes technical demonstrations of research prototypes and systems, open software competition, video demonstration of concepts and applications, as well as interactive arts which includes an exhibition of multimedia art. The interactive arts program, started in ACM MM 2004, is well integrated into the main activity of the conference this year.

We are grateful to the hours of hard-work put in by the co-chairs of various tracks for this rich collection of events. Our special thanks to the local organizing team for diligently and meticulously putting the conference together. We also thank the reviewers, the ACM Staff, NUS Staff and Students for their significant efforts and to you the authors for submitting your papers and your continued interest.

We would like to thank our corporate supporters: IBM Research, Microsoft Research, FXPAL, NUS Centennial Funds, Leonardo, and Lasalle-SIA College of the Arts – organizing this event would be difficult without their generous support. Finally we would like to acknowledge ACM and thank the special interests groups SIGMM and SIGGRAPH for co-sponsoring this event.

Since its inception, this conference has been held mostly in US, except for two previous occasions that it went outside of US to Europe (1998 and 2002). This is the first time in the history of the conference that it is being held in Asia. We invite you to take this opportunity to immerse yourself in this diverse multimedia community and learn about the most recent and exciting advances in the field. We hope you enjoy the conference.

Tat-Seng Chua, National University of Singapore
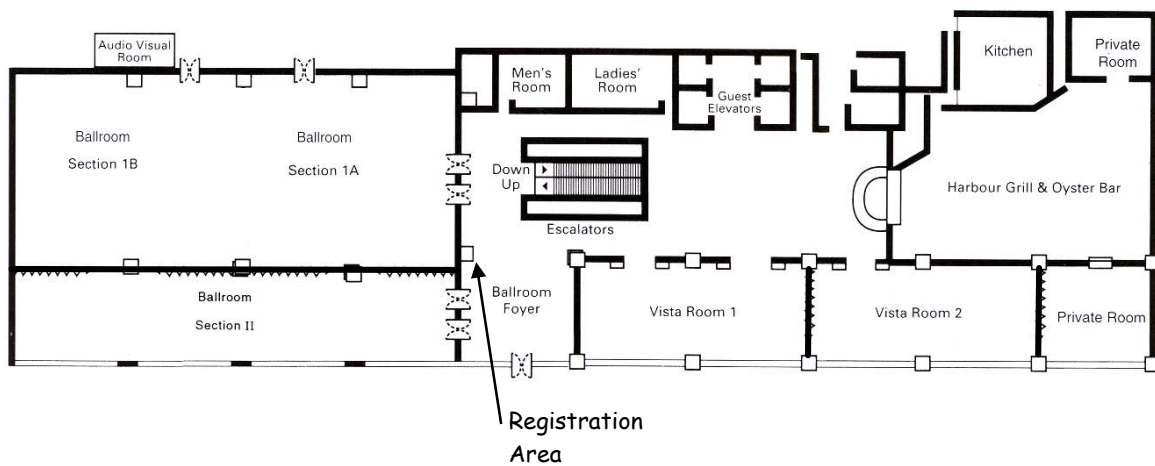Hongjiang Zhang, Microsoft Research, Asia
ACM Multimedia 2005 General Co-Chairs

2. LAYOUT OF ROOMS AT MAIN CONFERNCE SITE

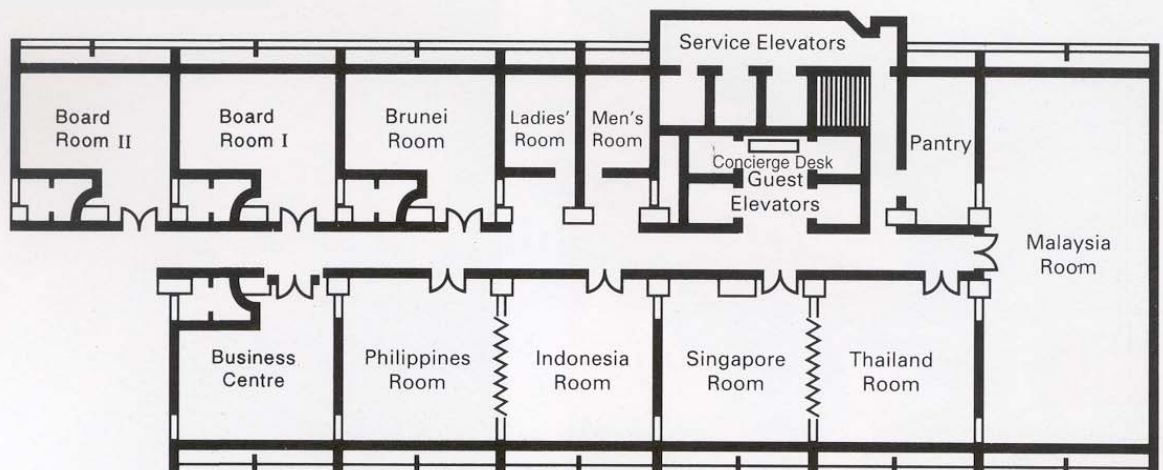**Conference Venue:** Hilton Hotel, Orchard Road, Singapore

Layout of Rooms in Level 3
(Venues for registration, main conference activities, and wireless access)

Layout of Rooms in Level 5
(Venues for tutorials on 6-7 Nov, and 3 workshops on 11 Nov)

3. PROGRAM AT GLANCE

SUNDAY (6 November)

	Malaysia Room (Level 5)	Singapore/Thailand Room (Level 5)	Lasalle-SIA College*
0900-1030	**T1**: MM Collaboration & Human-Centered Info Systems	**T3**: Peer-to-peer Multimedia	
1030-1100	Morning Tea (Foyer at Level 3)		ACM
1100-1300	**T1**	**T3**	
1300-1400	Lunch (Restaurant, 24th Floor)		MM
1400-1600	**T1**	**T3**	Arts
1600-1630	Afternoon Tea (Foyer at Level 3)		Exhibition
1630-1800	**T1**	**T3**	

MONDAY (7 November)

	Malaysia Room (Level 5)	Singapore/Thailand Room (Level 5)	Lasalle-SIA College*
0900-1030	**T4**: Media Semantics & Its Statistical Foundations	**T5**: SIP: A Protocol for Supporting MM in Next Generation Networks	
1030-1100	Morning Tea (Foyer at Level 3)		ACM
1100-1300	**T4**	**T5**	
1300-1400	Lunch (Restaurant, 24th Fl.)		MM
1400-1600	**T4**		Arts
1600-1630	Afternoon Tea (Foyer at Level 3)		Exhibition
1630-1800	**T4**		
1800-1900			
1900-2130			Reception for Arts Exhibition

* Art Gallery (FA 101&102), LASALLE-SIA College of the Arts, 90 Goodman Road, Singapore 439053

TUESDAY (8 November)

	Hall 1	Hall 2	Vista Room 1	Vista Room 2	Lasalle-SIA College*
0830-1000	Opening Plenary and Keynote				
1000-1030	Morning Tea (Foyer)				ACM MM Arts Exhibition
1030-1230	Content 1	Applications 1	Brave New Topics 1		
1230-1330	Lunch (Restaurant, 24th Floor)				
1330-1530	Content 2	Systems 1	Interactive Arts 1	Technical Demo 1	
1530-1600	Afternoon Tea (Foyer)				
1600-1730	Best Student Papers		Video Demos & Visions		
1730-1830	Break				
1830-2100	Conference Reception and Poster Session (For Content, Systems, Applications and Art Tracks) (Foyer)				

WEDNESDAY (9 November)

	Hall 1	Hall 2	Vista Room 1	Vista Room 2	Lasalle-SIA College*
0830-1000	Plenary Papers Session				
1000-1030	Morning Tea (Foyer)				ACM MM Arts Exhibition
1030-1230	Panel (*What is the State of our Community*)	Content 3	Interactive Arts 2		
1230-1400	Lunch / ACM SIGMM Business Meeting (Restaurant, 24th Floor))				
1400-1600	Content 4	Applications 2	Brave New Topics 2	Technical Demo 2	
1600-1630	Afternoon Tea (Foyer)				
1630-1730	Content 5	Systems 2	Open Source Software Presentation		
1730-1830	Travel to Sentosa Island				
1830-2200	Conference Banquet (Siloso Beach, Rasa Sentosa Hotel)				

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THURSDAY (10 November)

	HALL 1	HALL 2	Vista Room 1	Vista Room 2	Lasalle-SIA College*
0830-1030	Content 6	Applications 3	Interactive Arts 3		
1030-1100	Morning Tea (Foyer)				
1100-1230	Systems 3	Applications 4	Brave New Topics 3		ACM
1230-1400	Lunch (Restaurant, 24th Floor)				MM
1400-1600	Panel (*Foundations of Multimedia*)	MIR Workshop (Day 1)	Doctoral Symposium 1		Arts
1600-1630	Afternoon Tea (Foyer)				Exhibition
1630-1800		MIR Workshop (Day 1)	Doctoral Symposium 2		

FRIDAY (11 November)

	HALL 2 (level 3)	Vista 1 (Level 3)	Vista 2 (Level 3)	M'sian Room (Level 5)	Indonesian Room (Level 5)	Philippine Room (Level 5)	Lasalle-SIA College*
0830-1000	MIR Workshop (Day 2)	VSSN Workshop	CARPE Workshop	P2PMMS Workshop	MSC Workshop	MHC Workshop	
1000-1030	Morning Tea (Foyer)						ACM
1030-1230	MIR Workshop (Day 2)	VSSN Workshop	CARPE Workshop	P2PMMS Workshop	MSC Workshop	MHC Workshop	MM
1230-1330	Lunch (Restaurant, 24th Floor)						Arts
1330-1530	MIR Workshop (Day 2)	VSSN Workshop	CARPE Workshop	P2PMMS Workshop	MSC Workshop	MHC Workshop	Exhibition
1530-1600	Afternoon Tea (Foyer)						
1600-1800	MIR Workshop (Day 2)	VSSN Workshop	CARPE Workshop	P2PMMS Workshop	MSC Workshop	MHC Workshop	

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4. FULL PROGRAM FOR MAIN CONFERNECE

TUESDAY (8 November, 2005)

0830-0900	*Venue:* Hall 1	**CONFERENCE OPENING**
0900-1000	*Venue:* Hall 1 *Chair:* Hongjiang Zhang	**KEYNOTE TALK** **Future of home media** Kazumasa Enami (NHK, Japan Broadcasting Corporation)
1000-1030	*Venue:* Foyer	**MORNING TEA**
1030-1230	**SESSION I**	
	Venue: Hall 1 *Chair:* Bernard Merialdo	**Content 1: News Video Processing**
		Tracking News Stories Across Different Sources Y. Zhai and M. Shah (Univ. of Central Florida)
		Topic Transition Detection Using Hierarchical Hidden Markov and Semi-Markov Models D. Phung, T. Duong, H. Bui and S. Venkatesh (Curtin Univ. of Technology/AI center, SRI International)
		Joint Visual-Text Modeling for Automatic Retrieval of Multimedia Documents G. Iyengar, P. Duygulu, S. Feng, P. Ircing, S. Khudanpur, D. Klakow, M. Krause, R. Manmatha, H. Nock, D. Petkova, B. Pytlik and P. Virga (IBM TJ Watson Research Center/Bilkent Univ./Univ. of Massachusetts/Univ. of West Bohemia/Johns Hopkins Univ./Univ. of Saarland/Georgetown Univ./Mount Holyoke College)
		Multiple Instance Learning for Labeling Faces in Broadcasting News Video J. Yang, R. Yan and A. Hauptmann,(Carnegie Mellon Univ.)
	Venue: Hall 2 *Chair:* Sasanne Boll	**Applications 1: Media Fusion for Communication and Presentation**
		Complementing Your TV-Viewing by Web Content Automatically-Transformed into TV-program-type Content A. Nadamoto and K. Tanaka (National Institute of Information and Communications Technology/ Kyoto University)
		Augmented Segmentation and Visualization for Presentation Videos A. Haubold and J. Kender (Columbia Univ.)
		Exploring Media Correlation and Synchronization for Navigated Hypermedia Documents K.-Y. Liu, H.-Y. Chen (National Chi-Nan Univ.)
		Designing a large-scale video chat application J Scholl, J McCarthy, A Sasse and P Parnes (Luleå Univ. of Technology/Univ. College London)

TUESDAY (8 November, 2005)

	Venue: Vista 1	**Brave New Topic Session 1: Multimedia Challenges for Planetary Scale Applications**
	Co-Chairs: Milena Radenkovic; Dick Bultermann	**Iris Net: An Internet-Scale Architecture for Multimedia Sensors** J. Campbell, P.B. Gibbons, S. Nath, P. Pillai, S. Seshan and R. Sukthankar (Intel Research Pittsburgh/ Carnegie Mellon Univ.)
		The Multimedia Challenges Raised by Pervasive Games M. Capra, M. Radenkovic, S. Benford, L. Oppermann, A. Drozd and M. Flintham (Univ. of Nottingham)
		PLASMA: A PLAnetary Scale Monitoring Architecture D. Aksoy (Univ. of California, Davis)
		Gates of Global Perception: Forensic Graphics for Evidence Presentation A.M. Burton, D. Schofield and L.M. Goodwin (Univ. of Nottingham)
1230-1330	*Venue:* Restaurant (24th Floor)	**LUNCH**
1330-1530	**SESSION II**	
	Venue: Hall 1 *Chair:* Alberto Del Bimbo	**Content 2: Image Clustering**
		Web Image Clustering by Consistent Utilization of Visual Features and Surrounding Texts B. Gao, T.-Y. Liu, T. Qin, X. Zheng, Q.-S. Cheng and W. Ma ((Peking Univ./ Microsoft Research Asia/ Tsinghua Univ.)
		Iteratively Clustering Web Images Based on Link and Attribute Reinforcements X.-J. Wang, W. Ma, L. Zhang and X. Li (Tsinghua Univ./Microsoft Research Asia)
		Image Clustering with Tensor Representation X. He, D. Cai, H. Liu and J. Han (Univ. of Chicago/UIUC)
		Building and Tracking Hierarchical Geographical & Temporal Partitions for Image Collection Management on Mobile Devices M. Gelgon and A. Pigeau (Polytech'Nantes/ Université de Nantes)
	Venue: Hall 2 *Chair:* Ralf Steinmetz	**Systems 1: Multi-camera Systems**
		Critical Video Quality for Distributed Automated Video Surveillance P. Korshunov and W.T. Ooi (National Univ. of Singapore)
		A Real-Time Interactive Multi-View Video System J.-G. Lou, H. Cai and J. Li (Microsoft Research Asia)
		MedSMan: A Streaming Data Management System over Live Multimedia B. Liu, A.Gupta and R. Jain (Georgia Institute of Technology/ University of California San Diego/ Univ. of California, Irvine)

TUESDAY (8 November, 2005)

	Venue: Vista 1	**Interactive Arts (Full-Paper) Session 1: Interfaces for Audio and Music Creation**
	Chair: Lonce Wyse	**'flUId streams': Fountains that are keyboards with nozzle spray as keys that give rich tactile feedback and are more expressive and more fun than plastic keys** S. Mann (Univ. of Toronto)
		Facilitating Collective Music Creativity A. Tanaka, N. Tokui and A. Momeni (Sony CSL Paris)
		MobiLenin: Combining A Multi-Track Music Video, Personal Mobile Phones and A Public Display into Multi-User Interface Entertainment J. Scheible and T. Ojala (University of Art and Design Helsinki / Univ. of Oulu)
		Research & Art Jam #1: Can Artists & Researchers Play Mozart?
	Venue: Vista 2	**Technical Demonstration 1: Media Understanding and Browsing**
	Co-Chairs: Tian Qi; Michael Lew	**D1-01: PhotoRouter: Destination-Centric Mobile Media Messaging** S. Ahern, S. King, H. Qu and M. Davis (UC Berkeley)
		D1-02: Content-based Music Audio Recommendation P. Cano, M. Koppenberger and N. Wack (IUA-Universitat Pompeu Fabra)
		D1-03: MediaMetro: Browsing Multimedia Document Collections with a 3D City Metaphor P. Chiu, A. Girgensohn, S. Lertsithichai, W. Polak and F. Shipman (Xerox FX Research Laboratory, Silpakom Univ., Texas A&M Univ.)
		D1-04: mCLOVER Demo: mobile Content-based Leaf Image Retrieval System S. Kim, Y.Tak , Y. Nam and E. Hwang (Ajou Univ., Korea Univ.)
		D1-05: Video2Cartoon: Generating 3D Cartoon from Broadcast Soccer Video D. Liang, Y. Liu, Q. Huang, G. Zhu, S. Jiang, Z. Zhang and W. Gao (Harbin Institute of Tech., Chinese Academy of Sciences)
		D1-06: Online Face Detection and User Authentication C. Mallauran, J.-L. Dugelay and C. Garcia (Institute Eurécom, France Telecom R&D)
		D1-07: Intention-Based Home Video Browsing T. Mei and X.-S. Hua (Univ. of Science and Technology of China, Microsoft Research Asia)

TUESDAY (8 November, 2005)

		D1-08: Photo LOI: Browsing Multi-user Photo Collections R. Nair, N. Reid and M. Davis (Yahoo! Research Berkeley) **D1-09: Mediamill: Exploring News Video Archives based on Learned Semantics** C. Snoek, M. Worring, J. Gemert, J-M Geusebroek, D. Koelma, G. P. Nguyen, O. Rooij and F. Seinstra (Univ. of Amsterdam) **D1-10: A Repeated Video Clip Identification System** X. Yang, P. Xue and Qi Tian (Nanyang Technological Univ./ Institute for Infocom Research, Singapore)
1530-1600	*Venue:* Foyer	**AFTERNOON TEA**
1600-1730	**SESSION III**	
	Venue: Hall 1 *Chair:* Chitra Dorai	**Best Student Papers Session**
		SensEye: A Multi-tier Camera Sensor Network P. Kulkarni, D. Ganesan, P. Shenoy and Q. Lu (Univ. of Massachusetts)
		Physics-Motivated Features for Distinguishing Photographic Images and Computer Graphics T.-T. Ng, S.-F. Chang, J. Hsu, L. Xie and M.-P. Tsui (Columbia Univ., University of Toledo)
		Semantic Manifold Learning for Image Retrieval Y.-Y. Lin, T.-L. Liu and H.-T. Chen (Institute of Information Science, Academia Sinica)
	Venue: Vista 1 *Co-Chairs:* Frank Nack; Svetha Venkatesh	**Video Demonstrations and Visions**
		How Speech/Text Alignment Benefits Web-based Learning S.-W. Li, H.-T. Lin and H.-Y. Chen (National Chi-Nan Univ.)
		My Digital Photos: Where and When? N. O'Hare, C. Gurrin, H. Lee, N. Murphy, A.F. Smeaton and G.J.F. Jones ((Dublin City Univ.)
		Post-Bit: Embodied Video Contents on Tiny Stickies T. Matsumoto, T. Dunnigan and M. Back (KEIO Univ./FX Palo Alto Laboratory)
		Natural Video Browsing C. Zhu, T. Mei and X.-S. Hua (University of Science and Technology of China, Microsoft Research Asia)
		MMM2: Mobile Media Metadata for Media Sharing M. Davis, J. Canny, N. van House, N. Good, S. King, R. Nair, C. Burgener, B. Rinehart, R. Strickland, G. Campbell, S. Fisher, and N. Reid (Univ. of California, Berkeley, Yahoo! Research Berkeley)

TUESDAY (8 November, 2005)

		Media Gallery TV View And Shop Your Photos On Interactive Digital Television S. Thieme, A. Scherp, M. Albrecht and S. Boll (Oldenburg Research and Development Institute for Computer Science Tools and Systems, Univ. of Oldenburg, CeWe Color AG)
1730-1830	**BREAK**	
1830-2100	*Venue:* Level 3	**CONFERENCE RECEPTION** **POSTER PRESENTATION SESSIONS** **For Content, Applications, Systems and Art Tracks** (See list in Section 6: Poster (Short Papers), pp 21-25)

WEDNESDAY (9 November, 2005)

0830-1000	**SESSION IV**	
	Venue: Hall 1 *Chairs:* Mohan Kankanhalli	**Plenary Papers Session**
		Learning the Semantics of Multimedia Queries and Concepts from a Small Number of Examples A. Natsev, M. Naphade and J. Tesic (IBM T. J. Watson Research Center)
		An Object-based Video Coding Framework for Video Sequences Obtained From Static Cameras A. Hakeem, K. Shafique and M. Shah (Univ. of Central Florida)
		SEVA: Sensor-Enhanced Video Annotation X. Liu, M. Corner and P. Shenoy (Univ. of Massachusetts, Amherst)
1000-1030	*Venue:* Foyer	**MORNING TEA**
1030-1230	**SESSION V**	
	Venue: Hall 1	**Panel: What is the State of our Community?** **Moderator:** Yong Rui (Microsoft Research, Redmond) **Panelists:** Ramesh Jain, SIGMM Chair (UC Irvine) Nicolas D. Georganas, EiC, ACM TOMCCAP (Univ. of Ottawa) Hong-Jiang Zhang, EiC, IEEE TMM (Microsoft Research Asia ATC) Klara Nahrstedt, EiC, MMSJ (Univ. of Illinois at Urbana-Champaign) John Smith, Program Chair, ACM MM'03 (IBM T. J Watson) Mohan Kankanhalli, Program Chair, ACM MM'05 (National Univ. of Singapore)
	Venue: Hall 2 *Chairs:* Shin'ichi Satoh	**Content 3: Audio and Security**
		Unsupervised Content Discovery in Composite Audio R. Cai , L. Lu and A. Hanjalic (Tsinghua Univ., Microsoft Research Asia, Delft Univ. of Technology)
		Multimodal Content-based Structure Analysis of Karaoke Music Y. Zhu, K. Chen and Q. Sun (Institute for Infocomm Research)
		A Unified Framework for Resolving Ambiguity in Copy Detection S. Roy and E.-C. Chang (National Univ. of Singapore)
		Accurate Repeat Finding and Object Skipping Using Fingerprints C. Herley (Microsoft)

WEDNESDAY (9 November, 2005)

	Venue: Vista 1	**Interactive Arts (Full-Paper) Session 2: Performance, Play, and Apperception**
	Chair: Alejandro Jaimes	**An Ambient Intelligence Platform for Physical Play** R. Wakkary, M. Hatala, R. Lovell and M. Droumeva (Simon Fraser University)
		Generating Dance Verbs and Assisting Computer Choreography C.-M. Hsieh and A. LUCIANI (INPG Lab. ACROE-ICA)
		POEtic-Cubes: Acquisition of New Qualia Through Apperception using a Bio-inspired Electronic Tissue R. Paricio and Juan Manuel Moreno (Technical Univ. of Catalunya)
		Research & Art Jam #2: Can Computers Dance?
1230-1400	*Venue:* Restaurant (24th Floor)	**LUNCH / ACM SIGMM BUSINESS MEETING**
1400-1600	**SESSION VI**	
	Venue: Hall 1 *Chair:* Alan Hanjalic	**Content 4: Image Analysis and Retrieval**
		Coevolutionary Feature Synthesized EM Algorithm for Image Retrieval R. Li, B. Bhanu and A. Don (Univ. of California)
		Image Annotations by Combining Multiple Evidence and WorldNet Y. Jin, L. Khan, L. Wang and M. Awad (Univ. of Texas at Dallas)
		Robust Subspace Analysis for Detecting Visual Attention Regions in Images Y. Hu, D. Rajan and L.-T. Chia (Nanyang Technological Univ.)
		Formulating Context-dependent Similarity Functions G. Wu, E. Chang and N. Panda (Univ. of California)
	Venue: Hall 2 *Chair:* Lynn Wilcox	**Applications 2: Automated Multimedia Authoring**
		Automatic Generation of Personalized Music Sports Video J. Wang, C. Xu, E.-S. Chng, L. Duan, K.-W. Wan and Q. Tian (Institute for Infocom Research/ Nanyang Technological Uuiv.)
		Automated Rich Presentation of a Semantic Topic L. Lu and Z. Li (Microsoft Research Asia)
		Situated Event Bootstrapping and Capture Guidance for Automated Home Movie Authoring B. Adams and S. Venkatesh (Curtin Univ. of Technology)
	Venue: Vista 1 *Co-Chairs:* Nicu Sebe; Dick Bultermann	**Brave New Topic Session 2: Affective Multimodal Human-Computer Interaction**
		Affective Multimodal Human-Computer Interaction M. Pantic, N. Sebe, J.F. Cohn, T. Huang (Delft Univ. of Technology, Univ. of Amsterdam, Univ. of Pittsburgh, Univ. of Illinois at Urbana-Champaign)

		Multimodal Affect Recognition in Learning Environments A. Kapoor and R.W. Picard (MIT Media Laboratory)
		Multimodal Expressive Embodied Conversational Agents C. Pelachaud (Univ. of Paris 8)
		Socially Aware Media A. P. Pentland (MIT Media Laboratory)
	Venue: Vista 2 *Co-Chairs:* Tian Qi; Michael Lew	**Technical Demonstration Session 2: Media Authoring and Processing**
		D2-01: MMM2: Mobile Media Metadata for Photo Sharing S. Ahern, S. King and M. Davis (Yahoo! Research Berkeley)
		D2-02: LazyCut: Content-Aware Template-Based Video Authoring X.-S. Hua, Z. Wang and S. Li (Microsoft Research Asia, Sun Yat-Sen University)
		D2-03: Simulated Virtual Market Place By Using voiscape Communication Medium Y. Kanada (Hitachi Central Research Lab)
		D2-04: Perceptual Media Compression for Multiple Viewers with Feedback Delay O. Komogortsev (Kent State Univ.)
		D2-05: MobiCon - Integrated Capture, Annotation, and Sharing of Video Clips with Mobile Phones J. Lahti, U. Westermann, M. Palola, J. Peltola and E. Vildjiounaite (VTT Electronics, Finland)
		D2-06: Media Processing Workflow Design and Execution with ARIA L. Peng, G. Kwon, K.S. Candan, K. Ryu, K. Chatha and H. Sundaram and Y. Chen (Arizona State Univ.)
		D2-07: Context Driven Smart Authoring Of Multimedia Content with xSMART A. Scherp and S. Boll (Oldenburg Research and Development Institute for Computer Science Tools and Systems, Univ. of Oldenburg)
		D2-08: Video Inpainting and Restoration Techniques R.-C. Chang, L.H. Lin, C.-T. Tan and T.-K. Shih (Tamkang Univ.)
		D2-09: Reading SCORM Compliant Multimedia Courses Using Heterogeneous Pervasive Devices T-H Wang, H-P Chang, Y-L Sie, M-T Tzou and T.K. Shih (Tamkang Univ.)

WEDNESDAY (9 November, 2005)

		D2-10: An Automated EndtoEnd Lecture Capturing and Broadcasting System C. Zhang, J. Crawford, Y. Rui and L.-W. He (Microsoft Research)
1600-1630	*Venue:* Foyer	**AFTERNOON TEA**
1630-1730	**SESSION VII**	
	Venue: Hall 1 *Chair:* Wei-Ying Ma	**Content 5: Video Abstraction**
		Scenario based Dynamic Video Abstractions using Graph Matching J.K. Lee, J.H. Oh and S. Hwang (Univ. of Texas at Arlington)
		Evaluation of Video Summarization for a Large Number of Cameras in Ubiquitous Home G. De Silva, T. Yamasaki and K. Aizawa (The Univ. of Tokyo)
	Venue: Hall 2 *Chair:* Roger Zimmermann	**Systems 2: Mobility and Video**
		Can Small Be Beautiful? Assessing Image Size Requirements for Mobile TV H. Knoche, J. McCarthy and A. Sasse (Univ. College London)
		Chameleon: Application Level Power Management with Performance Isolation X. Liu, P. Shenoy and M. Corner (Univ. of Massachusetts)
	Venue: Vista 1 *Chair:* Ketan Mayer-Patel	**Open Source Software Competition** **OpenVIDIA: A Parallel GPU Computer** J. Fung, S. Mann and C. Aimone (Univ. of Toronto)
1730-1830	**Travel to Sentosa Island**	
1830-2200	*Venue:* Siloso Beach, Sentosa Island	**CONFERENCE BANQUET** (Award presentations)

THURSDAY (10 November, 2005)

0830-1030	**SESSION VIII**	
	Venue: Hall 1	**Content 6: Multimodal Processing**
	Chair: Rainer Leinhart	**Multimodal Metadata Fusion Using Causal Strength** Y. Wu, E. Chang and B. Tseng (Univ. of California/ NEC Research)
		Graph Based Multi-Modality Learning H. Tong, J. He, M. Li, C. Zhang and W. Ma (Tsinghua Univ./ Microsoft Research Asia)
		Generation of Views of TV Content Using TV Viewers' Perspectives Expressed in Live Chats on the Web H. Miyamori, S. Nakamura, and K. Tanaka (National Institute of Information and Communications Technology)
		Automatic Discovery of Query-Class-Dependent Models for Multimodal Search L. S. Kennedy, A. Natsev and S.-F. Chang (Columbia Univ./IBM T. J. Watson Research Center)
	Venue: Hall 2	**Applications 3: Tools for Multimedia Analysis and Retrieval**
	Chair: Michael Christel	**A Web-based System for Collaborative Annotation of Large Image and Video Collections** T. Volkmer, J. Smith, A. Natsev, M. Campbell, M. Naphade (RMIT Univ./I BM T. J. Watson Research Center)
		Putting Active Learning into Multimedia Applications; Dynamic Definition and Refinement of Concept Classifiers M.-Y. Chen, M. Christel, A. Hauptmann and H. Wactlar (Carnegie Mellon Univ.)
		Automatic Measurement of Quality Metrics for Colonoscopy Videos S. Hwang, J.H. Oh, J.K. Lee, Y. Cao, W. Tavanapong, D. Liu, J. Wong and P.C. de Groen, (Univ. of Texas at Arlington/ Iowa State University / Mayo Clinic College of Medicine)
	Venue: Vista 1	**Interactive Arts (Full-Paper) Session 3: Interaction in Social and Virtual Environments**
	Chair: Alejandro Jaimes	**Censor Chair: Exploring Censorship and Social Presence through Psychophysiological Sensing** E. Aley, T. Cooper, R. Graeber, A. Kerne, K. Overby, and Z. Toups (Texas A&M Univ.)
		Tensegric Mobile Controlled by Pseudo Forces K.G. Kobayashi, T. Ichizawa, K. Nakano and K. Ootsubo (Toyama Prefectural Univ.)
		Echology: An Interactive Spatial Sound and Video Artwork M. Deutscher, R. Hoskinson, S. Takahashi and S. Fels (University of British Columbia)
		Research & Art Jam #3: New Sensors, New Models: New Art or New Science?

THURSDAY (10 November, 2005)

1030-1100	*Venue:* Foyer	**MORNING TEA**
1100-1230	**SESSION IX**	
	Venue: Hall 1 *Chair:* Prashant Shenoy	**Systems 3: Searching and Streaming**
		PRISM: Indexing Multi-Dimensional Data in P2P Networks using Reference Vectors O. Sahin, A. Gulbeden, F. Emekci, D. Agrawal and A. El Abbadi (Univ. of California Santa Barbara)
		Supporting Multimedia Streaming Between Mobile Peers with Link Availability Prediction M. Qin, R. Zimmermann and L. Liu (Univ. of Southern California)
		Scalable Media Streaming to Interactive Users M. Rocha, M. Maia, I. Cunha, J. Almeida and S. Campos (Universidade Federal de Minas Gerais)
	Venue: Hall 2 *Chair:* Yong Rui	**Applications 4: Interactive Multimedia Systems**
		Digital Violin Tutor: An Integrated System for Beginning Violin Learners J. Yin, Y. Wang and D. Hsu (National Univ. of Singapore)
		Pervasive Views; Area Exploration and Guidance using Extended Image Media J. Zheng and X. Wang (IUPUI)
		A Flexible System for Creating Music while Interacting with the Computer Z. Obrenovic (Univ. of Belgrade)
	Venue: Vista 1 *Co-Chairs:* Changsheng Xu; Dick Bultermann	**Brave New Topic Session 3: Advanced Methods for Medical Image Retrieval and Applications**
		Data Grid for Large-Scale Medical Image Archive and Analysis H.K. Huang, A. Zhang, B. Liu, Z. Zhou, J. Documet, N. King and L.W.C. Chan (Univ. of Southern California)
		Evaluation axes for medical image retrieval systems - the Imageclef experience H. Müller, P. Clough and W. Hersh (Univ. and Univ. Hospitals of Geneva, Univ. of Sheffield, Oregon Health and Science Univ.)
		MultiPRE: A Novel Framework With Multiple Parallel Retrieval Engines For Content-Based Medical Image Retrieval W. Xiong, B. Qiu, Q. Tian, C. Xu, S.H. Ong, K. Foong, J.-P. Chevallet (Institute for Infocomm Research, National Univ. of Singapore, IPAL-CNRS)
1230-1400	*Venue:* Restaurant (24th Floor)	**LUNCH**

THURSDAY (10 November, 2005)

1400-1600	**PANEL, WORKSHOP and DOCTORIAL SYMPOSIUM**	
	Venue: Hall 1	**Panel: Foundations of Multimedia computing, communication and interaction**
		Moderator: Mohan Kankanhalli (National Univ of Singapore) **Panelists:** Alex Pentland (MIT Media Laboratory) Ramesh Jain (UC Irvine) Hong-Jiang Zhang (Microsoft Research Asia ATC) Alberto Del Bimbo (Università di Firenze)
	Venue: Hall 2	**Multimedia Information Retrieval (MIR) Workshop** (Day 1) (Refer to page 29 for the detailed program)
	Venue: Vista 1 *Chair:* Horace Ip	**Doctoral Symposium 1**
		Ontology-driven Content Search for Personalized Education W.P. Fok (City Univ. of Hong Kong)
		Content-based Video Indexing for Sports Applications using Integrated Multi-Modal Approach D. Tjondronegoro, Y.-P. Phoebe Chen B. Pham (Deakin University / Queensland Univ. of Technology)
		Designing Time-Based Interactions with Multimedia E. Lee (RWTH Aachen Univ.)
		Estimating Illumination Parameters in Real Space with Application to Image Relighting F. Xie, L. Tao and G. Xu (Tsinghua Univ.)
		Game State and Event Distribution using Proxy Technology and Application Layer Multicast K.-H. Vik (Univ. of Oslo)
1600-1630	*Venue:* Foyer	**AFTERNOON TEA**
1630-1800	*Venue:* Hall 2	**Multimedia Information Retrieval (MIR) Workshop** (Day 1)
	Venue: Vista 1 *Co-Chairs:* Ye Wang; Chong-Wah Ngo	**Doctoral Symposium 2**
		Multimodal Analysis of Recorded Video for E-Learning T. Martin, A. Boucher and J.-M. Ogier(Hanoi University of Technology/ IFI/ Université de la Rochelle)
		Enhancing Quality of Service by Exploiting Delay Tolerance in Multimedia Applications S. Krithivasan and S. Iyer (IIT Bombay)
		Threading Stories and Generating Topic Structures in New Videos across Different Sources X. Wu (City Univ. of Hong Kong)
		uPen: Laser-based, Personalized, Multi-User Interaction on Large Displays X. Bi, Y. Shi, X. Chen and P. Xiang(Tsinghua Univ.)

FRIDAY (11 November, 2005)

	WORKSHOPS	
0830-1800	*Venue:* Hall 2 (Level 3)	**Multimedia Information Retrieval (MIR 2005)** (Day 2)
	Venue: Vista 1 (Level 3)	**Video Surveillance and Sensor Networks (VSSN 2005)**
	Venue: Vista 2 (Level 3)	**Continuous Archival and Retrieval of Personal Experiences (CARPE 2005)**
	Venue: Malaysia Room (Level 5)	**Advances in Peer-to-Peer Multimedia Streaming (P2PMMS 2005)**
	Venue: Indonesian Room (Level 5)	**Multimedia Service Composition (MSC 2005)**
	Venue: Philippine Room (Level 5)	**Multimedia for Human Communication - From Capture to Convey (MHC 05)**

Please refer to Section 9 (pp 29-35) or the Workshop Web Sites for the detailed programs.

5. KEYNOTE ADDRESS

Future of Home Media

Kazumasa Enami
Director-General, Science and Technical Research Laboratories
NHK (Japan Broadcasting Corporation)
enami.k-fm@nhk.or.jp

ABSTRACT

In the future, the television set at home will be a key device for providing integrated information services through broadcasting, communication and storage media. In this environment, users will be able to receive any type of information, e. g., HDTV programs, in real-time and whenever s/he wants. Moreover, the advent of advanced mobile terminals means that this new environment will eventually expand to anywhere outside the home. In this speech, I will introduce the services in the future and some topics of the technologies being developed by the NHK Science and Technical Research Laboratories (STRL) to achieve such services.

1. INTRODUCTION

It is widely expected that a new kind of broadcasting environment will emerge allowing anyone to obtain the information they need anytime and anywhere. By connecting TV to the Internet, the TV can assume the role of the total information gateway giving people access to whatever information they need anytime they want. Anywhere means that people can enjoy access to digital broadcasts via mobile terminals. And to create an environment in which everyone can access information when they need it, a diverse range of people-oriented services are being developed including services especially for senior citizens, the vision-impaired, hearing-impaired, and other people with special needs.

2. KEY TECHNOLOGIES

To achieve above services and a system, NHK STRL are studying the following key technologies;

- An intelligent software agent-based TV system for easy operation.
- A metadata extraction method using image and speech recognition from scenes of TV programs for retrieval from home servers or VOD services.
- Automatically information generation allowing anyone to produce TV programs easily.
- A conditional access system for secure and reliable content utilization.
- Expandable system construction technologies.

3. RESEARCH APROACH

Another essential aspect of our research is that it embodies a "human sciences" approach. The process whereby producers express their intentions in the form of a program, which then changes the psychological state of a viewer, deeply involves the intellection of human beings. We seek a means of automatic collection and systemization of the knowledge and behavioral patterns of producers and viewers, to incorporate such knowledge into research that delves into the high-order brain functions, such as sensibility and cognition. We hope that doing so will be a means to enhance media and services.

4. CONCLUSIONS

We are aiming for future systems that are user-oriented, by instilling the program producers' intentions and sensibilities into the content and enabling viewers to enjoy the programs they want to see any time and anywhere using a simple interface.
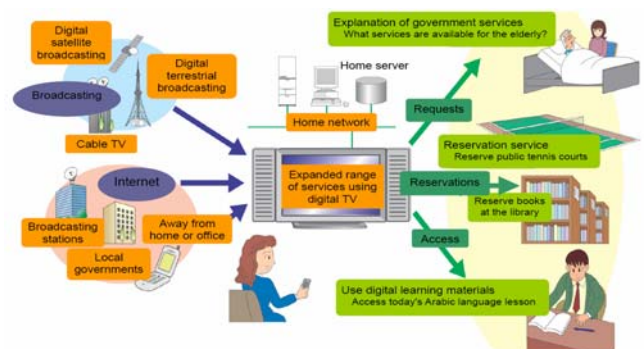

Figure 1. Idealized image of the total information

6. POSTERS (SHORT PAPERS)

Systems Track

S-01 Content-adaptive Transmission of Reconstructed Soccer Goal Events over Low Bandwidth Networks
Q. Tang and I. Koprinska (Univ. of Sydney)

S-02 A New Selection Method for H.264 Based Fine Granular Scalable Video Coding
W.-H. Yoo, J. Cha, W.-S. Cheong, K. Kim and G.H. Park (ETRI/ Kyunghee Univ.)

S-03 JADE: Jabber-based Authoring in Distributed Environments
Roczniak and A. El Saddik (Univ. of Ottawa)

S-04 Streaming with Causality: A Practical Approach
Plesca, R. Grigoras, P. Queinnec and G. Padiou (ENSEEIHT, France)

S-05 A Peer-to-Peer Network for Live Media Streaming - Using a Push-Pull Approach
M. Zhang, J.-G. Luo, L. Zhao, S.-Q. Yang (Tsinghua Univ.)

S-06 Power-aware Bandwidth and Stereo-image Scalable Audio Decoding
W. Huang, S. Chakraborty and Y. Wang (National Univ. of Singapore)

S-07 TrustStream: A Novel Secure and Scalable Media Streaming Architecture
H. Yin, C. Lin, F. Qiu , X. Liu and D.   Wu (Tsinghua Univ./ University of Florida)

S-08 Using Offline Bitstream Analysis for Power-Aware Video Decoding in Portable Devices
Y. Huang, S. Chakraborty and Y. Wang (National Univ. of Singapore)

S-09 Supporting Multi Party Voice over IP services with Peer-to-peer stream processing
X. Gu, Z. Wen, P. Yu and Z.-Y. Shae (IBM T. J. Watson Research Center)

S-10 rStream: Resilient Peer-To-Peer Streaming With Rateless Codecs
Wu and B. Li *(Univ. of Toronto)*

S-11 INCA: Impact of Incentive Mechanisms on Quality of Experience
Roczniak and A. El Saddik (Univ. of Ottawa*)*

Applications Track

A-01 ClickRemoval: Interactive Pinpoint Image Object Removal
F. Nielsen and R. Nock Nielsen (Sony Computer Science Laboratories Inc/ Antilles-Guyane University)

A-02 Motion Picture Inpainting on Aged Films
T.K Shih, R.-C. Chang and Y.-P. Chen (Tamkang Univ.)

A-03 Implementation of a Mobile MPEG-21 Peer
S. Lauf (Univ. of Wollongong)

A-04 Exploiting Self-Adaptive Posture-based Focus Estimation for Lecture Video Editing
F. Wang (Hong Kong Univ. of Science and Technology)

A-05 IMAGINATION: A Robust Image-based CAPTCHA Generation System
R. Datta, J. Li and J.Z. Wang (The Pennsylvania State Univ.)

A-06 [hid] toolkit: a unified framework for instrument design
H.-C. Steiner (New York Univ.)

A-07 Hierarchical Voting Classification Scheme for Improving Visual Sign Language Recognition
L.-G. Zhang, X. Chen, C. Wang and W. Gao (Chinese Academy of Sciences)

A-08 Real Time Advertisement Insertion in Baseball Video Based on Advertisement Effect
Y. Li, K.W. Wan, X. Yan and C. Xu (Institute for Infocomm Research)

A-09 Providing On-Demand Sports Video to Mobile Devices
Q. Liu, Z. Hua, C. Zang, X. Tong and H. Lu (Chinese Academy of Sciences)

A-10 An Adaptive Edge Detection Based Colorization Algorithm and Its Applications
Y.C. Huang, Y.S. Tung, J.-C. Chen, S.-W. Wang and J.-L. Wu (National Taiwan Univ.)

A-11 Recognition of Hands-free Speech and Hand Pointing Action for Conversational TV
Y. Ariki, T. Takiguchi and A. Sako (Kobe Univ.)

A-12 A Corpus-based Singing Voice Synthesis System for Mandarin Chinese
C.-Y. Lin, T.-Y. Lin and J.-S. R. Jang (National Tsing Hua Univ.)

A-13 Dynamic Shot Suggestion Filtering for Home Video Based on User Performance
B. Adams and S. Venkatesh (Curtin Univ. of Technology)

A-14 Creating MAGIC: System for Generating Learning Object Metadata for Instructional Content
Y. Li, C. Dorai and R. Farrell (IBM T. J. Waton Research Center)

A-15 Cooking Navi: Assistant for Daily Cooking in Kitchen
R. Hamada, J. Okabe, I. Ide, S. Satoh, S. Sakai and H. Tanaka ((Univ. of Tokyo/IIT/Nagoya Univ./ NII/IISEC)

A-16 Personal Media Sharing and Authoring On the Web
X.-S. Hua and S. Li (Microsoft Research Asia)

A-17 Automatic Generating Detail-on-Demand Hypervideo Using MPEG-7 and SMIL
T. Zhou, T. Gedeon and J. Jin (Univ. of Newcastle/ The Australian National Univ.)

A-18 OFFICE BLOGGER
B. Erol and J.J. Hull (Ricoh California Research Center)

A-19 Haptic: The New Biometrics-embedded Media to Recognizing and Quantifying Human Patterns.
M. Orozco, I. Shakra and A. El Saddik *(Univ. of Ottawa)*

A-20 Attention Region Selection with Information from Professional Digital Camera
S. Liu, L.-T. Chia and D. Rajan (Nanyang Technology Univ.)

Content Track

C-01 Automatic Video Annotation Using Ontologies Extended With Visual Information
M. Bertini, A. Del Bimbo and C. Torniai (Università di Firenze)

C-02 Early versus Late Fusion in Semantic Video Analysis
C. Snoek, M. Worring and A. Smeulders (Univ. of Amsterdam)

C-03 Detecting Group Activities using Rigidity of Formation
S. Khan and M. Shah (Univ. of Central Florida)

C-04 A Probabilistic Template-based Approach to Discovering Repetitive Patterns in Broadcast Videos
P. Wang, Z.-Q. Liu and S.-Q. Yang (Tsinghua Univ./ City Univ. of Hong Kong)

C-05 Learning with Non-Metric Proximity Matrices
G. Wu, E.Y. Chang and Z. Zhang (Univ. of California)

C-06 Semantic Feedback for Interactive Image Retrieval
C. Yang, M. Dong and F. Fotouhi (Wayne State Univ.)

C-07 Image Region Entropy: A Measure of ``Visualness'' of Web Images Associated with One Concept
K. Yanai and K. Barnard (Univ. of Electro-Communications/Univ. of Arizona)

C-08 To Learn Representativeness of Video Frames
H.-W. Kang and X.-S. Hua (University of Science and Technology of China/ Microsoft Research Asia)

C-09 Affect-Based Indexing and Retrieval of Films
C.H. Chan and G. Jones (Dublin City Univ.)

C-10 Toward Emergent Representations for Video
R. Shaw and M. Davis (UC Berkeley)

C-11 Region Based Image Annotation through Multiple-Instance Learning
C. Yang and M. Dong and F. Fotouhi (Wayne State Univ.)

C-12 Spatio-Temporal Quality Assessment for Home Videos
T. Mei, C.-Z. Zhu, H.-Q. Zhou and X.-S. Hua (University of Science and Technology of China / Microsoft Research Asia)

C-13 Light Weight MP3 Watermarking Method for Mobile Terminals
K. Takagi, S. Sakazawa and Y. Takishima (KDDI R&D Labs Inc.)

C-14 GPU-Assisted Decoding of Video Samples Represented in the YCoCg-R Color Space
W. De Neve, D. van Rijsselbergen, C. Hollemeersch, J. De Cock, S. Notebaert and R. van de Walle (Ghent Univ./ Splash Damaga Ltd.)

C-15 Learning an Image-Word Embedding for Image Auto-Annotation on the Nonlinear Latent Space
W. Liu and X. Tang (The Chinese Univ. of Hong Kong/ Microsoft Research Asia)

C-16 Exciting events detection in broadcast soccer video with mid-level description and incremental learning
Q. Ye, Q. Huang, S. Jiang and W. Gao (Chinese Academy of Science)

C-17 A Method for Retrieving Music Data with Different Bit Rates using MPEG-4 TwinVQ Audio Compression
M. Kobayakawa, M. Hoshi and K. Onishi (Univ. of Electro-Communications)

C-18 Sound Source Location Cue Coding System for Compact Representation of Multi-channel Audio
Jang, J. Seo, S. Beack, K. Kang and H.-G. Moon, (Electronics and Telecommunications Research Institute (ETRI)/ Samsung Electronics Co., Ltd.)

C-19 Semantic Knowledge Extraction and Annotation for WWW Images
Z. Hua, X. Wang, Q. Liu and H. Lu (Chinese Academy of Science)

C-20 On indexing of 3D scenes using MPEG-7
I.M. Bilasco, J. Gensel, M. Villanova-Oliver and H. Martin (LSR IMAG)

C-21 Natural Language Processing of Lyrics
J.P. Mahedero, A. Martinez and Pedro Cano (Universitat Pompeu Fabra)

C-22 Building a Visual Ontology for Video Retrieval
L. Hollink, M. Worring and A. Schreiber (Vrije Universiteit Amsterdam / University of Amsterdem)

C-23 Towards Context-Aware Face Recognition
M. Davis, M. Smith, J. Canny, N. Good, S. King and R. Janakiraman (UC Berkeley/ France Telecom/ Yahoo! Research Berkeley/ National Univ. Singapore)

C-24 A Novel Framework for SVM-Based Image Retrieval on Large Databases
L. Wang, X. Li, P. Xue and K.L. Chan (Nanyang Technological Univ.)

C-25 Automatic Image Orientation Determination with Natural Image Statistics
S. Lyu (Dartmouth College)

C-26 Determining Structure in Continuously Recorded Videos
Y. Zhai and M. Shah (Univ. of Central Florida)

C-27 Two-Scale Image Retrieval with Significant Meta-Information Feedback
J. Li (The Pennsylvania State Univ.)

C-28 A Multiview Video Transcoder
B. Bai, P. Boulanger and J. Harms (Univ. of Alberta)

C-29 Emotion-based Music Recommendation by Association Discovery from Film Music
F.-F. Kuo, M.-F. Chiang, M.-K. Shan and S.-Y. Lee (National Chiao-Tung Univ./ National Cheng-Chi Univ.)

C-30 An Improved QTCQ Wavelet Image Coding Method Using DCT and Coefficient Reorganization
L. Chen and J. Wang (Shanghai Jiao Tong Univ.)

C-31 Automatic Identification Of Digital Video Based On Shot-Level Sequence Matching
J. Zhou and X.-P. Zhang (Ryerson Univ.)

C-32 Highlight Ranking for Sports Video Browsing
X. Tong, Q. Liu, Y. Zhang and H. Lu (Chinese Academy of Sciences)

C-33 SSF Fingerprint for Image Authentication: An Incidental Distortion Resistant Scheme
S. Tang, J.-T. Li and Y.-D. Zhang (Chinese Academy of Sciences)

C-34 Validating cardiacn echo diagnosis through video Similarity
T. Syeda-Mahmood, D.e Ponceleon and J. Yang (IBM Almaden Research Center/ Yale Univ.)

C-35 Tracking Users' Capture Intention: A Novel Complement View for Home Video Content Analysis
T. Mei, X.-S. Hua and H.-Q. Zhou (University of Science and Technology of China / Microsoft Research Asia)

C-36 Evaluation of Subjective Video Quality of Mobile Devices
S. Jumisko-Pyykko and J. Hakinen *(Tampere Univ./ Univ. of Helsinki /Nokia Research Center)*

C-37 A Unified Shot Boundary Detection Framework Based on Graph Partition Model
Y. Jinhui, J. Li, F. Lin and B. Zhang *(Tsinghua Univ.)*

C-38 Part-Based Shape Retrieval
M. Tanase and R. Veltkamp (Utrecht Univ.)

C-39 Co-Active Intelligence for Image Retrieval
M. Truran, J. Goulding and H. Ashman *(Univ. of Nottingham)*

Art Track

Art-01 Face to face - a Media-art using a Face Detection System and its Exhibition
Y. Nakanishi (Keio Univ.)

Art-02 The Dancing Genome Project Generation of a Human-Computer Choreography using a Genetic Algorithm
F.-J. Lapointe and M. (Université de Montréa / Université du Québec à Montréal)

Art-03 The Control of Fear:An Interactive Art Experiencing and Presenting System with Multimodal Sensors and Media
C. Yang, L. Liu and J. Chen (Panasonic R&D Company of America/ 66 Communications Inc.)

Art-04 MusicStory: a Personalized Music Video Creator
D. Shamma, B. Pardo and K. J. Hammond (Infolab, Northwestern Univ.)

Art-05 Impossible Geographies of Belonging
P. Gemeinboeck (Univ. of Sydney)

Art-06 The SINE WAVE ORCHESTRA stay
Kazuhiro JO, K. Furudate, D. Ishida and M. Noguchi (Japan)

Art-07 Seven Mile Boots - Implications of an Everyday Interface
M. Pichlmair (Vienna Technical Univ.)

Art-08 A New Approach to Interactive Performance Systems
H. Kuscu and B. Akgün (Yildiz Technical Univ.)

Art-09 Mulholland Drive&: A Movie with No Image
D.S. Hessels (UCLA Design | Media Art)

Art-10 An Adaptation Framework for New Media Artworks
Ouali, B. Kerhervé and P. Landon (UQAM, Canada))

Art-11 Man in e-space/ Motion Analysis in 3D Space
W. Ka (France)

Art-12 Organum: Individual Presence through Collaborative Play
G. Niemeyer, D. Perkel and R. Shaw (UC Berkeley, USA)

7. ART EXHIBITION

Dates: 6-12 November, 2005
Time: 1000-1800 hours
Venue: Art Gallery (FA 101&102)
          LASALLE-SIA College of the Arts
          90 Goodman Road, Singapore 439053

Reception: 7 November 2005 (Monday), 1900-2130

The list of exhibits:

- **Seven Mile Boots**
  by Martin Pichlmair
  This exhibit mixes physical space with the virtual world: as the wearer walks, wearing networked boots, she enters different internet chat rooms to overhear real-time conversations.

- **Ere Be Dragons: an Interactive Artwork**
  by Stephen Boyd Davis, Magnus Moar, John Cox, Chris Riddoch, Karl Cooke, Rachel Jacobs, Matt Watkins, Richard Hull and Tom Melamed
  This work measures a player's heart rate and uses a combination of media in a GPS/enhanced reality game to encourage exercise.

- **Body Degree Zero**
  by Alan Dunning, Paul Woodrow, Morley Hollenberg
  It uses biological sensors to create a virtual presence of two participants.

- **Immersing ME-the disappearing digitize presence**
  by Yu-Chuan Tseng and Chia-Hsiang Lee Jason Lee
  This exhibit mixes the virtual and the real as images of viewers of the work are captured and divided into many pieces.

- **Impossible Geographies 01**
  by Petra Gemeinboeck, Mary Agnes Krell
  This work explores memory by interactively redisplaying complex combinations of video previously captured in the space.

- **Tangible Weather Channel**
  by Yu-Cheng Hsu
  It uses tangible media to experience remote presence, in particular, it uses air and water to convey presence in the weather conditions of a remote location.

- **SmallConnection: Designing of Tangible Communication Media over Networks**
  by Hideaki Ogawa, Noriaki Ando, Satoshi Onodera
  This work also uses tangible media to experience remote presence, instead, it creates an intimate communication channel with light and touch.

- **"KODAMA" -Mischievous Echoes-**
  by Hisako Kroiden Yamakawa
  This work creates a world by capturing voices of the visitors to the installation and representing them as bubbles in a forest.

- **Vanishing Point**
  by Mauricio Arango
  It uses news sources to render a map in which countries disappear if they are not mentioned in the news sources.

- **Interactions, an Interactive Multimedia Installation**
  by David Birchfield
  This work mixes images and sounds created by two virtual artists who compete with each other given user input.

- **Non_sensor**
  by Raquel Renno, Rafael Marchetti and Gonzague Defos du Rau
  This exhibit subverts a magnetic position-sensing device using everyday electrical or metallic objects as impromptu tools of artistic expression.

- **Tastes like**
  by Miha Ciglar
  This work does away with technology altogether—the body itself serves as a conductor of electrons to generate audio-visual collages.

- **The King Has...**
  by Krister Olsson and Takashi Kawashima
  It solicits anonymous secrets via text message and memorializes them on wooden tablets displayed in public places.

- **Diorama table**
  by Keiko Takahashi and Shinji Sasada
  This exhibit playfully mixes physical elements with virtual ones: tableware placed on a table cause virtual objects to appear and interact.

- **The Bomar Gene: fictiobiography, digiart, hypertext**
  by Jason Nelson
  This work creates a web of narratives in which the lives of several individuals can be discovered. It explores non-linear narrative structures using multiple media.

- **Playas: Homeland Mirage**
  by Jack Stenner, Andruid Kerne and Yauger Williams
  It creates a virtual reality game environment from real and synthetic images of a town in New Mexico

BUS SCHEDULE FROM CONFERNCE HOTEL TO EXHIBITION SITE

(The journey takes approximately half-an-hour)

Date	Hotel → Exhibition Site	Exhibition Site → Hotel
Monday (7 Nov)	1100	1230
	1830	2115
Tuesday (8 Nov)	1015	1145
	1645	1800
Wednesday (9 Nov)	1015	1145
	1515	1645
Thursday (10 Nov)	1045	1200
	1615	1745
Friday (11 Nov)	1045	1200
	1615	1745

8. TUTORIALS

1. **T1** (Full day, 6 November 2005, Sunday)
   Multimedia Collaboration and Human-Centered Multimedia Information Systems
   Yong Rui (Microsoft Research, Remond)
   Nicu Sebe (University of Amsterdam, Netherlands) and
   Alejandro (Alex) Jaimes (FXPAL Japan, Fuji Xerox Co. Ltd)

2. **T3** (Full day, 6 November 2005, Sunday)
   Peer-to-peer Multimedia
   Ralf Steinmetz (Darmstadt Univ. of Technology)

3. **T4** (Full day, 7 November 2005, Monday)
   Media Semantics and the Statistical Foundations for Understanding It
   AM: Marc Davis (UC Berkeley),
   *   Chitra Dorai (IBM Research),*
   *   Frank Nack (CWI, Netherlands)*
   PM: Edward Chang (UC Santa Barbara)

4. **T5** (Half day, Morning, 7 November 2005, Monday)
   Session Initiation Protocol (SIP): A Protocol for Supporting Multimedia in Next Generation Networks
   Arup Acharya (IBM Research),
   Archan Mishra (IBM Research) and
   Avshalom Houri (IBM Research)

9. FULL PROGRAMS FOR WORKSHOPS

9.1 MIR (Multimedia Information Retrieval)

Venue: Hall 2, Level 3, Hilton Hotel (10-11 November, 2005)

THURSDAY (10 November 2005)

1400-1500	**OPENING REMARKS** *Hongjiang Zhang (Microsoft Research ATC, China)* **KEYNOTE SPEECH** From Relevance to Intelligence: Toward Next Generation Web Search (*Weiying Ma, Microsoft Research Asia*)
1500-1700	**POSTER SESSION** **Chair:** *Qi Tian (The University of Texas at San Antonio, USA)* **Poster Session 1: Video Annotation, Indexing and Retrieval** • Enhanced Ontologies for Video Annotation and Retrieval (*Marco Bertini, Alberto Del Bimbo, and Carlo Torniai*) • Semi-Automatic Video Annotation Based on Active Learning with Multiple Complementary Predictors (*Song Yan, Xian-Sheng Hua, Li-Rong Dai, Meng Wang, and Hong-Jiang Zhang*) • A Motion-Flow-Based Fast Video Retrieval System (*Chih-Wen Su, Kuo-Chin Fan, Hong-Yuan Mark Liao, Chia-Wen Lin, Hsiao-Rong Tyan*) • Video Booklet – A Natural Video Searching and Browsing Interface (*Caizhi Zhu*) • A New General Framework for Shot Boundary Detection and Key-Frame Extraction (*Huamin Feng*) • Unified Framework for Semantic Shot Representation of Sports Video (*Xiaofeng Tong, Hanqing Lu, Lingyu Duan, and Qingshan Liu*) **Poster Session 2: Image/WWW-based System and Applications** • Semantic Image Classification with Hierarchical Feature Subset Selection (*Yuli Gao*) • Photo-to-Search: Using Multimodal Queries to Search the Web from Mobile Devices (*Xin Fan, Xing Xie, Mingjing Li, Zhiwei Li, and Wei-Ying Ma*) • Multiple Random Walk and Its Application (*Mingjing Li, Jingrui He, and Hanghang Tong*) • Scenario optimization for interactive category search (*Giang Phuong Nguyen and Marcel Worring*) • Macroblock Mode Decision for H.264 (*Tran Duc Hai Du*)
1600-1630	**AFTERNOON TEA**

1700-1840	**Special Session 1: Machine Learning for Visual Information Retrieval** **Chair:** *Nozha Boujemaa (INRIA, France)*
	A Cluster-wise Semantics Endorsement Approach to Image Retrieval (*Jia Li*)
	Exploiting Temporal Discontinuities for Event Detection and Manipulation in Video Streams (*Hugh Denman, Erika Doyle, Anil Kokaram, Niall Rea, Rozenn Dahyot, and Ray Fuller*)
	An Interactive System for Mental Face Retrieval (*Yuchun Fang, Donald Geman*)
	Discriminant Local Features Selection using Efficient Density Estimation in a Large Database (*Alexis Joly and Olivier Buisson*)
	Hybrid visual and conceptual image representation within active relevance feedback context (*Marin Ferecatu, Nozha Boujemaa, and Michel Crucianu*)

FRIDAY (11 November 2005)

0900-1000	**KEYNOTE SPEECH** Video Search: Opportunities & Challenges (*Ramesh Sarukkai, Yahoo! Inc*)
1000-1030	**MORNING TEA**
1030-1210	**ORAL SESSION 1: Image/Video/Learning** **Chair:** *John Smith (IBM T. J Watson Research Center, USA)*
	Active Semi-Supervised Fuzzy Clustering for Image Database Categorization (*Nizar Grira, Michel Crucianu, and Nozha Boujemaa*)
	Mutual Relevance Feedback for Multimodal Query Formulation in Video Retrieval (*Arnon Amir, Marco Berg, and Haim Permuter*)
	Player Identification in Soccer Videos (*Alberto Del Bimbo, Marco Bertini, and Walter Nunziati*)
	Tracking Concept Drifting with an Online-Optimized Incremental Learning Framework (*Jun Wu, Dayong Ding, Xian-Sheng Hua, and Bo Zhang*)
	Low-cost Distributed Learning of A Probabilistic Mixture Model for Multimedia Content-based Indexing on A Large Scale (*Afshin Nikseresht, Marc Gelgon*)
1210-1310	**LUNCH (Restaurant: 24th Floor)**
1310-1450	**ORAL SESSION 2: Web Searching and Applications** **Chair:** *Hongjiang Zhang (Microsoft Research ATC, China)*
	SSP: Similarity Space Projection, A Novel Framework for Web Image Search and Annotation (*Tie-Yan Liu, Ying Liu, Tao Qin, Lei Zhang, and Wei-Ying Ma*)
	Probabilistic Web Image Gathering (*Keiji Yanai and Kobus Barnard*)
	Multi-Graph Enabled Active Learning for Multimodal Web Image Retrieval (*Xin-Jing Wang, Wei-Ying Ma, Lei Zhang, and Xing Li*)
	Inferring Similarity Between Music Objects with Application to Playlist Generation (*Chris Burges, Cormac Herley, and Robert Ragno*)
	Framework for Personalized Multimedia Summarization (*Lalitha Agnihotri, John Kender, Nevenka Dimitrova, and John Zimmerman*)

1450-1510	**AFTERNOON TEA**
1510-1650	**SPECIAL SESSION 2: Multimedia Information Retrieval: Challenges and Real-world Applications** **Chair:** *James Z. Wang (The Penn State University, USA)*
	Evaluation Strategies for Image Understanding and Retrieval (*Keiji Yanai, Nikhil Shirahatti, Prasad Gabbur, and Kobus Barnard*)
	Localized Content-Based Image Retrieval (*Rouhollah Rahmani, Sally Goldman, Hui Zhang, and Jason Fritts*)
	A Content-Based Image Retrieval System for Fish Taxonomy (*Yixin Chen, Henry L. Bart, Jr., and Fei Teng*)
	Extracting Information from Multimedia Meeting Collections (*Daniel Gatica-Perez, Dong Zhang, and Samy Bengio*)
	Content-Based Image Retrieval - Approaches and Trends in the New Age (*Ritendra Datta, Jia Li, and James Z. Wang*)
1700-1830	**PANEL SESSION: Multimedia Information Retrieval: What is it and Why isn't Anyone Using It?** **Chair:** *Alejandro (ALEX) Jaimes (FXPAL Japan, Fuji Xerox Co., Ltd.)* Ramesh Sarukki, *Yahoo! Inc* Wei-Ying Ma, *Microsoft Research Asia* Sbastien Gilles, *LTU technologies* Mike Christel, *Carnegie Mellon University*

9.2 VSSN (**Video Surveillance and Sensor Networks**)

Venue: Vista 1, Level 3, Hilton Hotel (Friday, 11 November, 2005)

0830-0940	**KEYNOTE SPEECH** Observation Systems (*R. Jain - University of California, Irvine*)
0940-1030	**SESSION 1: Image and Video Processing for Multimedia Surveillance Systems**
	Multimedia Surveillance Systems (*R. Cucchiara - University of Modena and Reggio Emilia, Italy)*
	An Image Mosaicing Module for Wide-Area Surveillance *(M. Heikkilä, M. Pietikainen - University of Oulu, Finland)*
1030-1100	**MORNING TEA**
1100-1240	**SESSION 1: cont.**
	Calibration of Visual Sensors and Actuators in Distributed Computing Platforms (*E. Hoerster, R. Lienhart - University of Augsburg, Germany;W. Kellermann - University of Erlangen-Nuremberg, Germany; J.-Y. Bouguet - Intel Corp., Santa Clara, USA)*
	Exemplar based background model initialization (*A. Colombari, M. Cristani, V. Murino, A. Fusiello - University of Verona, Italy)*
	Real-Time Surveillance Video Display with Salience *(W. Guangyu, T. Wong, P.A. Heng - The Chinese University of Hong Kong, Hong Kong)*
	Classifying Spatiotemporal Object Trajectories using Unsupervised Learning *(A. Naftel, S. Khalid - University of Manchester, UK)*
1240-1330	**LUNCH (Restaurant: 24th Floor)**
1330-1440	**SESSION 2: Open Source Algorithm Competition**
	Bayesian Background Modeling for Foreground Detection *(F. Porikli - Mitsubishi Electric Research Labs, Cambridge, MA)*
	Reliable Real-Time Foreground Detection for Video Surveillance Applications *(J. Lluís – Davantis, Barcelona)*
	Adaptive Parametric Statistical Background Subtraction for Video Segmentation *(S. Aramvith - Chulalongkorn University, Thailand)*
	A Multi-Criteria Model for Robust Foreground Extraction *(A H. Kamkar-Parsi, Univ. of Ottawa, Ont., Canada)*
	Presentation of the results of the competition *(R. Lienhart - Universität Augsburg)*
1440-1555	**SESSION 3: Enlarge and enhance the view with video, audio and sensor networks**
	A Video Analysis Framework for Soft Biometry Security Surveillance (*Y.-F. Wang, E. Chang - University of California, Santa Barbara; K. Cheng - Proximex Corporation)*
	An Integrated Architecture for Surveillance and Monitoring in an Archaeological Site (*G. Lo Re, E. Ardizzone, M. La Cascia, M. Ortolani - University of Palermo, Italy)*
	Towards Event Detection in an Audio-Based Sensor Network *(M. McHugh, A. F. Smeaton - Dublin City University, Ireland)*

1555-1615	**AFTERNOON TEA**
1615-1705	**SESSION 3: cont.**
	An Integrated Multi-Modal Sensor Network for Video Surveillance *(A. Prati, R. Vezzani - University of Modena and Reggio Emilia; L. Benini, E. Farella, P. Zappi - University of Bologna)*
	Timelinebased Information Assimilation in Multimedia Surveillance and Monitoring Systems *(P. K. Atrey, M. Kankanhalli - National University of Singapore; R. Jain - University of California, Irvine, USA)*
1705-1920	**SESSION 4: Explore multi-resolution views with PTZ and coordinated camera networks**
	Automatic Pan-Tilt-Zoom Calibration in the Presence of Hybrid Sensor Networks *(C. R. Wren, MERL; M. Erdem, Boston University; A. Azarbayejani, MERL)*
	Acquisition of High-resolution Images through Online Saccade Sequence Planning *(A.D. Bagdanov, A. Del Bimbo, F. Pernici - University of Firenze, Italy)*
	Surveillance Camera Scheduling: A Virtual Vision Approach *(F. Z. Qureshi - University of Toronto, Canada; D. Terzopoulos - New York University, USA)*
	Constructing Task Visibility Intervals for a Surveillance System *(S.-N. Lim - University of Maryland, USA; A. Mittal - Siemens Corporate Research, Princeton, USA; L. Davis - University of Maryland, USA)*
	Coopetitive Visual Surveillance using Model Predictive Control *(V. K. Singh, P. Atrey - National University of Singapore)*
1920-1930	**CLOSING**

9.3 CARPE (Continuous Archival and Retrieval of Personal Experiences)

Venue: Vista 2, Level 3, Hilton Hotel (Friday, 11 November, 2005)

0845-0915	**INTRODUCTION**
0915-1000	Event-based Multimedia Chronicling Systems (*Pilho Kim, Ullas Gargi, Ramesh Jain*)
1000-1030	**MORNING TEA**
1030-1200	Continuous Archival and Analysis of User Data in Virtual and Immersive Game Environments (*Kiyoung Yang,Tim Marsh, Minyoung Mun, Cyrus Shahabi*)
	Straight (and tell me what I did today): A Human Posture Alarm and Activity Summarization System (*Alejandro Jaimes, Jianyi Liu*)
1200-1330	**LUNCH (Restaurant: 24th Floor)**
1330-1430	**POSTER SESSION**
	Experience Retrieval for a Ubiquitous Home (*Gamhewage de Silva, Byoungjun Oh, Toshihiko Yamasaki, Kiyoharu Aizawa*)
	Why and How CARPE Should Be Personal? (*Leslie Seymour*)
	Semantic Framework for Meeting Data Retrieval (*Weisheng He, Peifeng Xiang, Yuanchun Shi*)
	Practical Experience Recording and Indexing of Life Log Video (*Datchakorn Tancharoen, Toshihiko Yamasaki, Kiyoharu Aizawa*)
	iam: Experiences with Persistent Video Recording, Publishing and Sharing (*Tripp Millican*)
1430-1530	**PANEL DISCUSSION**
1530-1600	**AFTERNOON TEA**

9.4 P2PMMS (Advances in Peer-to-Peer Multimedia Streaming)

Venue: Malaysia Room, Level 5, Hilton Hotel (Friday, 11 November, 2005)

0930-1030	**SESSION 1: Peer-to-Peer Systems I** **Chair:** *Shiqiang Yang (Tsinghua University)*
	On the Frame Forwarding in Peer-to-Peer Multimedia Streaming *C.-C. Yeh, L. S. Pui (National Taiwan Ocean University)*
	Adaptive Bitstream Switching of Pre-encoded PFGS Video *O. Lotfallah, M. Reisslein, S. Panchanathan (Arizona State University)*
1000-1030	**MORNING TEA**
1030-1200	**SESSION 2:** Peer-to-Peer Systems II **Chair:** *Shiqiang Yang (Tsinghua University)*
	Large-Scale Live Media Streaming over Peer-to-Peer Networks through Global Internet *M. Zhang, L. Zhao, Y. Tang, J.-G. Luo, S.-Q. Yang (Tsinghua University)*
	Distributed Prefetching Scheme for Random Seek Support in Peer-to-Peer Streaming Applications *C. Zheng (Shanghai Jiaotong University), G. Shen, S. Li (Microsoft Research Asia)*
	Rate-Distortion Optimized Video Peer-to-Peer Multicast Streaming *E. Setton, J. Noh, B. Girod (Stanford University)*
1200-1330	**LUNCH (Restaurant: 24th Floor)**
1330-1530	**SESSION 3:** Peer-to-Peer Tree Construction **Chair:** *Jacky G. Shen* (*Microsoft Research Asia*)
	Tree-Based Application Layer Multicast using Proactive Route Maintenance and its Implementation *T. Kusumoto, Y. Kunichika, J. Katto, S. Okubo (Waseda University)*
	A New Approach for the Construction of ALM Trees using Layered Video Coding *Y. Okada, M. Oguro, J. Katto, S. Okubo (Waseda University)*
	Optimal Peer Selection for Minimum-Delay Peer-to-Peer Streaming with Rateless Codes *C. Wu, B. Li (University of Toronto)*
	High-Bandwidth Routing in Dynamic Peer-to-Peer Streaming *Y. Cui (Vanderbilt University), K. Nahrstedt (University of Illinois at Urbana-Champaign)*
1530-1600	**AFTERNOON TEA**

9.5 MSC (**Multimedia Service Composition)**

Venue: Indonesian Room, Level 5, Hilton Hotel (Friday, 11 November, 2005)

0830-1000	**WELCOME and KEYNOTE** Building Large-Scale Multimedia Systems: Should We Use More SOAP to Clean Up Our Act? (*Roger Zimmermann USC*)
1000-1030	**MORNING TEA**
1030-1230	**SESSION 1** **Chair:** *Wolf-Tilo Balke*
	Seamless Service Composition (SeSCo) in Pervasive Environments (*Swaroop Kalasapur, Mohan Kumar, and Behrooz Shirazi)*
	A Distributed Scheme for Autonomous Service Composition (*Stephen Herborn, Yoann Lopez, and Aruna Seneviratne)*
	Transparent End-Host-Based Service Composition through Network Virtualization (*Stefan Goetz and Klaus Wehrle)*
1230-1330	**LUNCH (Restaurant: 24th Floor)**
1330-1530	**SESSION 2** **Chair:** *Klara Nahrstedt*
	ResourceAware Service Composition for Video Multicast to Heterogeneous Mobile Users (*Shuichi Yamaoka, Tao Sun, Morihiko Tamai, Keiichi Yasumoto, Naoki Shibata, and Minoru Ito)*
	Digital Media and Entertainment Service Delivery Platform (*Christopher J. Pavlovski and Quentin Staes-Polet)*
	Supporting Meetings with a Goal-Driven Service-Oriented Multimedia Environment (*Karin Anna Hummel, Wolfgang Jochum, Stefan Leitich, and Bernhard Schandl)*
1530-1600	**AFTERNOON TEA**
1600-1800	**WRAP UP SESSION**
	Towards Building Large Scale Multimedia Systems and Applications: Challenges and Status *(Klara Nahrstedt and Wolf-Tilo Balke)*
	Open Discussion of Lessons Learned, Future Challenges, Feedback, Suggestions

9.6 MHC (Multimedia for Human Communication)

Venue: Philippine Room, Level 5, Hilton Hotel (Friday, 11 November, 2005)

Note that this workshop is organized as a brainstorming session. Participants are requested to get involved before, during and after the meeting.

0830-0845	**WELCOME**
0845-0915	**SESSION 1: Models**
	Canonical Processes of Media Production *(Lynda Hardman)*
	A Component-based Multimedia Model *(Alejandro Jaimes)*
0915-1000	**SESSION 2: Applications**
	Design and Production of New Media Artworks *(Brigitte Kerhervé)*
	Capture and Transfer of Metadata During Video Production *(Frank Nack)*
	Supporting Personal Media Authoring *(Nicholas Diakopoulos)*
1000-1030	**MORNING TEA**
1030-1230	**SESSION 3: Modeling**
1230-1330	**LUNCH (Restaurant: 24th Floor)**
1330-1530	**SESSION 4: Discussions on Modeling**
1530-1600	**AFTERNOON TEA**
1600-1730	**SESSION 5: Final modeling and wrap-up discussion**

9. SOCIAL PROGRAMS

7 November 2005 (Monday), 1900-2130

Reception for ACM MM Arts Exhibition
Location: Art Gallery (FA 101&102)
               LASALLE-SIA College of the Arts
               90 Goodman Road, Singapore 439053
(Bus transfers will be provided from Hilton hotel at 1830, and back after the reception at 2115)

8 November 2005 (Tuesday), 1830-2100

Reception for ACM MM cum Poster Presentations
Location: Hilton Hotel, Level 3

9 November 2005 (Wednesday), 1900-2200

Conference Banquet
Location: Siloso beach, Rasa Sentosa Hotel, Sentosa Island
(Bus transfers will be provided from and back to Hilton hotel after the **Banquet**)

10. REGSITRATION AND NETWORK ACCESS

Registration

Registration desk will be open from 0830 – 1700 from 6-11 November 2005.
The registration will take place in Level 3 outside Hall 2.

Wireless Internet Access

Internet access will be provided at the conference site at Level 3 through the use of a wireless broadband network. To access the wireless network, the participant must have a computer notebook with built-in wireless network card or a PCMCIA wireless network card (IEEE 802.11 b/g compliant). In addition, some notebooks with Internet connection will be placed near the registration area during the day. You may approach our technical staff at the conference if you require assistance in connecting to the network.

11. ACM Multimedia 2005 Organizing Committee

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