

Tuesday 15 April 2003

Morning Sessions

8:00 - 9:00	Registration
9:00 - 9:15	Welcoming address G. Di Benedetto, Sovrintendente Teatro Carlo Felice A. Camurri, G. Volpe, GW2003 Co-chairs
9:15 - 10:00	Invited Talk 1 F. E. Pollick "The features people use to recognize human movement style"
10:00 - 10:20	Paper Session 1: Foundational Issues Chair: Gualtiero Volpe InfoMus Lab, DIST – University of Genova, Italy G. Merola, I. Poggi "Multimodality and gestures in the Teacher's communication" I. Poggi, F. Cirella, A. Zollo, A. Agostini "The communicative system of touch. Lexicon, alphabet and norms of use"
10:20 - 10:40	
10:40 - 11:10	Coffee Break - Posters
11:10 - 11:30	Paper Session 2: Gesture Recognition I Chair: Frank E. Pollick Department of Psychology, University of Glasgow, UK G. McGlaun, F. Althoff, M. Lang, G. Rigoll "Robust video-based recognition of dynamic head gesture in various domains - Comparing a rule-based and a stochastic approach" V. Athitsos, S. Sclaroff "Database Indexing Methods for 3D Hand Pose Estimation" G. S. Schmidt, D. H. House "Model-Based Motion Filtering for Improving Arm Gesture Recognition Performance"
11:30 - 11:50	
11:50 - 12:10	
12:10 - 12:30	Paper Session 3: Gesture Analysis Chair: Isabella Poggi Dipartimento di Scienze dell'Educazione - Università Roma Tre, Italy M. Nielsen, T. Moeslund, M. Störring, E. Granum "A procedure for developing intuitive and ergonomic gesture interfaces for Man-Machine interaction" J. Holler, G. Beattie "On the interaction of iconic gesture and speech" N. Rossini "Gestures and Prototype Theory: a New Approach to Gesture Categorization"
12:30 - 12:50	
12:50 - 13:05	
13:05 - 14:35	Lunch

Tuesday 15 April 2003

Afternoon Sessions

Demo Session 1	
14:35 - 14:50	S. Kallio, J. Kela, J. Plomp "Gesture-based Interaction with Home Appliances"
14:50 - 15:05	J. Marques Soares, P. Horain, A. Bideau "Sharing and immersing applications in a 3D virtual inhabited world "
Paper Session 4: Multimodal Interfaces Chair: Ipke Wachsmuth Artificial Intelligence Group – Faculty of Technology, University of Bielefeld, Germany	
15:05 - 15:25	F. Althoff, G. McGlaun, M. Lang, G. Rigoll "Evaluating Multimodal interaction patterns in various application scenarios"
15:25 - 15:45	H. Moritani, Y. Kawai, H. Sawada "Intuitive Manipulation of a Haptic Monitor for the Gestural Human-computer Interaction"
15:45 - 16:05	C. Brockmann, H. Muller "Remote Vision-based Multi-modal Gesture interaction"
16:05 - 16:20	J. M. Salles Dias , P. Santos, R. Bastos "Gesturing with Tangible Interfaces for Mixed Reality"
16:20 - 16:50	Coffee Break - Posters
Demo Session 2	
16:50 - 17:05	T. Shalit "Gesture Recorder Demonstration"
17:05 - 17:20	D. Radicioni, V. Lombardo "Computational modelling of chord shapes in guitar fingering"
Paper Session 5: Gesture Tracking Chair: Catherine Pelachaud LINC, Paragraphe, IUT of Montreuil - University of Paris 8, France	
17:20 - 17:40	K. Morrison, S. J. McKenna "An Experimental Comparison of Trajectory-based and History-based Representation for Gesture Recognition"
17:40 - 17:55	A. Shamaie, A. Sutherland "A dynamic model for real-time tracking of hands in bimanual movements"
17:55 - 18:10	C. Lange, T. Hermann, H. Ritter "Holistic Body Tracking for Gestural Interfaces"
18:10 - 18:25	R. Cassel, C. Collet "Tracking of Real time Acrobatic Movements by Image Processing"

Wednesday 16 April 2003

Morning Sessions

8:00 - 9:00	Registration
	Demo Session 3
9:00 - 9:15	I. Marshall, E. Sáfar "Text to Sign Language Translation"
9:15 - 9:30	R. G. Lee, C. Neidle "New developments in the annotation of gesture and sign language data: Advances in the SignStream™ project"
9:30 - 9:45	T. Hanke, H. Popescu, C. Schmaling "eSIGN: HPSG-assisted sign language composition"
	Invited Talk 2
9:45 - 10:30	S. Hashimoto "Gesture and Haptic Interface for KANSEI Communication"
10:30 - 11:00	Coffee Break - Posters
	Paper Session 6: Expressive Gesture Chair: Shuji Hashimoto Department of Applied Physics, Waseda University, Tokyo, Japan
11:00 - 11:20	A. Camurri, B. Mazzarino, R. Timmers, G. Volpe "Multimodal analysis of expressive gesture in music and dance performances"
11:20 - 11:40	M. Leman, V. Vermeulen, L. De Vooght, J. Taelman, D. Moelants, M. Lesaffre "Correlation of gestural audio cues and perceived expressive qualities"
11:40 - 12:00	B. Vines, M. Wanderley, R. Nuzzo, D. Levitin, C. Krumhansl "Performance Gestures of Musicians: What Structural and Emotional Information do they Convey?"
	Paper Session 7: Music Gesture Chair: Rolf Inge Godøy Section for musicology, University of Oslo, Norway
12:00 - 12:20	D. Cirotteau, G. De Poli, L. Mion, A. Vidolin, P. Zanon "Recognition of musical gestures in known pieces and in improvisations"
12:20 - 12:40	J.L. Florens "Expressive bowing on a virtual string instrument"
12:40 - 12:55	S. Dahl, A. Friberg "Expressiveness of musician's body movements in performances on marimba"
12:55 - 14:30	Lunch

Wednesday 16 April 2003

Afternoon Sessions

	Demo Session 4
14:30 - 14:45	F. Bevilacqua, C. Dobrian, J. Ridenour "Mapping sound to human gesture: demos from video-based motion capture systems"
14:45 - 15:00	A. Camurri, B. Mazzarino, G. Volpe "A tool for analysis of expressive gesture: The EyesWeb Expressive Gesture Processing Library"
	Paper Session 8: Embodied Conversational Agents Chair: Richard Kennaway School of Information Systems, University of East Anglia, Norwich, UK
15:00 - 15:20	I. Poggi, C. Pelachaud, E. Magno Caldognetto "Gestural Mind Markers in ECAs"
15:20 - 15:40	M. Malcangi, R. De Tintis "Audio Based Real-Time speech animation of embodied conversational agents"
15:40 - 16:00	H. Noot, Z. Ruttkay "Style in Gesture"
16:00 - 16:30	Coffee Break - Posters
	Paper Session 9: Gesture in Multimedia and Performing Arts I Chair: Giovanni De Poli CSC – DEI, University of Padua, Italy
16:30 - 16:50	D. Murphy, K. Jensen, T. Andersen "Conducting Audio Files via Computer Vision"
16:50 - 17:10	R. I. Godøy "Gestural imagery in the service of musical imagery"
17:10 - 17:30	K. Falkenberg Hansen, R. Bresin "Analysis of a genuine scratch performance"
	Paper Session 10: Gesture Recognition II Chair: Timo Sowa Artificial Intelligence Group – Faculty of Technology, University of Bielefeld, Germany
17:30 - 17:50	K. Sage, A. J. Howell, H. Buxton "Developing Context Sensitive HMM Gesture Recognition"
17:50 - 18:10	M. Zobl, R. Nieschulz, M. Geiger, M. Lang, G. Rigoll "Gesture components for natural interaction with in-car devices"
18:10 - 18:30	H. Zhou, Y. Wu, T. S. Huang "Tracking Articulated Objects with the Factorization Method"

Thursday 17 April 2003

Morning Sessions

8:00 - 9:00	Registration
9:00 - 9:20	Paper Session 11: Applications for Gesture Analysis Chair: Marcelo M. Wanderley Faculty of Music, McGill University, Montreal, Quebec, Canada C. Cristilli, S. Carlomagno "Conceptual and lexical factors in the production of speech and conversational gestures: neuropsychological evidence"
9:20 - 9:40	B. Bossard, A. Braffort, M. Jardino "Some Issues in Sign Language Processing"
9:40 - 10:00	S. C.W. Ong, S. Ranganath "Classification of Gesture with Layered Meanings"
10:00 - 10:15	Paper Session 12: Gesture Notations Chair: Sylvie Gibet Laboratoire VALORIA, Université de Bretagne Sud, Vannes, France N. Rossini "Gesture and Transcription: a Proposal for a New Method"
10:15 - 10:35	R. Kennaway "Experience with and requirements for a gesture description language for synthetic animation"
10:35 - 10:55	K. Crombie Smith, W. Edmondson "The Development of a Computational Notation for the Synthesis of Sign and Gesture"
10:55 - 11:25	Coffee Break - Posters
11:25 - 11:45	Paper Session 13: Gesture in Multimodal Human-Computer Interaction Chair: Antonio Camurri InfoMus Lab, DIST – University of Genova, Italy T. Hermann, T. Henning, H. Ritter "Gesture Desk - An Integrated Multi-Modal Workplace for Interactive Sonification"
11:45 - 12:05	A. Kranstedt, P. Kühnlein, I. Wachsmuth "Deixis in Multimodal Human Computer Interaction: An Interdisciplinary Approach"
12:05 - 12:25	S. Kopp, T. Sowa, I. Wachsmuth "Imitation games with an artificial agent: From mimicking to understanding shape-related iconic gesture"
12:25 - 12:40	P. E. Selva, M. Minori, M. Gatta, C. Giovannella "Gloves as web-nodes to interact with virtual environments"
12:40 - 12:55	A. Corradini "Collaborative Integration of speech and 3D gesture for map based applications"
12:55 - 13:10	Y. Li, C. Groenegress, W. Strauss, M. Fleischmann "Gesture Frame – A screen Navigation Interface for Interactive Multimedia Kiosks"
13:10 - 14:40	Lunch

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Afternoon Sessions

	Paper Session 14: Gesture Recognition III Chair: Daniel Arfib LMA – CNRS, Marseille, France
14:40 - 14:55	M.P. Craven, K.M.Curtis "GesRec3D: A real-time coded gesture-to-speech system with automatic segmentation and recognition thresholding using dissimilarity measures"
14:55 - 15:05	A. J. Howell, K. Sage, H. Buxton "Developing Task-Specific RBF Hand Gesture Recognition"
15:05 - 15:25	C. Vogler, D. Metaxas "Handshapes and movements: Multiple-channel ASL recognition"
15:25 - 15:45	J.B. de la Riviere, P. Guitton "Hand Posture Recognition in Large Displays VR Environments"
15:45 - 16:15	Coffee Break - Posters
16:15 - 16:25	N. Bernardini Presentation of the new Cost287-ConGAS action "Control and Gesture on Audio Systems"
	Paper Session 15: Gesture in Multimedia and Performing Arts II Chair: Nicola Bernardini Centro Tempo Reale, Firenze, Italy
16:25 - 16:40	M.-L. Rinman, A. Frieberg, I. Kjellmo, A. Camurri, S. Dahl, G. Volpe "ESP, an expressive performance space, a collaborative tool for interactive game environments and performance"
16:40 - 16:55	D. Arfib, J. M. Couturier, L. Kessous "Design and use of some digital musical instruments"
16:55 - 17:15	P. Modler, T. Myatt "A Video System for Recognising Gestures by Artificial Neural Networks for Expressive Musical Control"
17:15 - 17:30	S. Vacchi, G. Civati, D. Marini, A. Rizzi "A Real-Time System for Gesture Generation and Mapping"
17:30 - 18:00	Final Discussion