# humaine

## THIRD SUMMER SCHOOL
*Casa Paganini, Genova, 22 September-28 September 2006*

| *Thursday 21 September* | |
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| 6h00-8h00 pm | Registration and welcome |

| *Friday 22 September* | |
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| *Workshop on Multimodal Synchronization in Affective Expressions* | |
| 9h00-9h15 am | Welcome address |
| 9h15-10h30 am | Opening of the workshop (Klaus Scherer) Presentation of the database (Tanja Banziger) |
| 10h30-11h00 am | Coffee break |
| 11h00 am -1h00 pm | Modelling communication with a virtual human (Ipke Wachsmuth) |
| 1h00-2h30 pm | Lunch |
| 2h30-4h15 pm | Identifying repeated patterns of behaviour in time (Magnus Magnusson) |
| 4h15-4h30 pm | Coffee break |
| 4h30-5h00 pm | Time warping of a piano (and other) video sequences following different emotions (Daniel Arfib) |
| 5h00-5h45 pm | Annotating, extracting and generating synchronized expressive behavior (Catherine Pelachaud) |

| Saturday 23 September | |
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| **Workshop on Multimodal Synchronization in Affective Expressions** | |
| 9h00-11h00 am | Demo of the software THEME (Magnus Magnusson) |
| 11h00-11h30 am | Coffee break |
| 11h30 am -12h45 pm | Pattern recognition in peripheral and central signalling (Thierry Pun) |
| 12h45-2h30 pm | Lunch |
| 2h30-4h00 pm | Modelling discrete changes in continuous dynamical systems (Rene te Boekhorst ) |
| 4h00-4h15 pm | Coffee break |
| 4h15-5h45 pm | Examples of the diversity of research using multimodal data (emotional interaction and communication, emotional experience) (Jean-Claude Martin, Federica Cavicchio, Marcello Mortillaro) |

| Sunday 24 September | |
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| **Morning: Workshop on Multimodal Synchronization in Affective Expressions** | |
| 9h00-10h45 am | Presentation of the <u>Blueprint for emotional competent agent</u> (Klaus Scherer and colleagues): Presentation on how theory of emotion and research on expression and neurophysiology can inform computational modelling |
| 10h45-11h15 am | Coffee break |
| 11h15 am -12h30 pm | Presentation of the Grid Study (Etienne Roesch, Johnny Fontaine, Klaus Scherer) |
| 12h30-2h30 pm | Lunch |

| Sunday 24 September | |
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| **Afternoon: Young researchers' session** | |
| 2h30-2h50 pm | ERDA: An Empathic Rationale Dialog Agent (Megalie Ochs) |
| 2h50-3h10 pm | High level prosody related features: through the construction of a model for emotional speech (Loic Kessous) |
| 3h10-3h30 pm | Implications of embodiment from an emotional software agent perspective (Stefan Rank) |
| 3h30-3h50 pm | Emotional body movements (Ahmad Shaarani) |
| 3h50-4h10 am | Coffee break |
| 4h10-4h30 pm | Affective multimedia interaction grounded on a cognitive science approach: interpreting indirect measures of emotion and modeling the affective relationship to multimedia content (Olivier Villon) |
| 4h30-4h50 pm | Generation of facial emotional expressions based on Scherer's psychological theory (Amandine Grizard) |
| 4h50-5h10 pm | Avatar expressions with Scherer's theory (Marco Paleari) |
| 8h00 pm | Social dinner |

| Monday 25 September | |
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| **Morning: Session on Relations between movement/gesture and emotion** | |
| 9h00-9h30 am | Full-body motion analysis for animating expressive, socially attuned agents (Elisabetta Bevacqua, Ginevra Castellano, Maurizio Mancini, Christopher Peters) |
| 9h30-10h00 am | Perception of movement expressivity in emotional TV interviews (Jean-Claude Martin) |
| 10h00-10h30 am | The pianist's body during performance. Differences in emotion management and perception (Isabella Poggi) |
| 10h30-11h00 am | Coffee break |
| 11h00-11h30 am | Gesture expressivity breaks in a conversational interaction (Nicolas Ech Chafai) |
| 11h30-12h00 am | Gestures while reporting emotions (Giorgio Merola) |
| 12h00-12h30 pm | A computational model for body expression of emotion in human-computer interaction (Marina Ousov-Fridin) |
| 12h30-2h30 pm | Lunch |
| **Afternoon: Session on Emotion in Social Cognition and Interaction** | |
| 2h30-3h00 pm | Dynamic modeling of interpersonal stances towards an ECA based on linguistic and acoustic features (Nicole Novielli) |
| 3h00-3h30 pm | Modifying affective bonds depending on the quality of interaction (Arnaud Blanchard) |
| 3h30-3h45 pm | Coffee break |
| 3h45-4h15 pm | Social context based emotion expression (Radoslaw Niewiadomski) |
| 4h15-4h45 pm | Increasing the feeling of presence with affective modalities (Zerrin Kasap) |

| Tuesday 26 September | |
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| 9h00-10h30 am | Workshop on Sequential Analysis for the study of emotion (I) (Rene te Boekhorst) |
| 10h30-11h00 am | Coffee break |
| 11h00-12h00 am | Workshop on Sequential Analysis for the study of emotion (I) (Rene te Boekhorst) |
| 12h00-12h30 pm | Vital signs treatment and fusion in e-learning applications (Stefano Scotti) |
| 12h30-1h00 pm | Linguistic approaches to human-robot emotional speech interaction (Artemy Kotov) |
| 1h00-2h30 pm | Lunch |
| 2h30-3h30 pm | Towards Artificial Consciousness: the "what problem" (Vincenzo Tagliasco) |
| 3h30-4h00 pm | ENACTIVE EU IST Project presentation (Antonio Frisoli) |
| 4h00-4h30 pm | S2S2-Sound to Sense, Sense to Sound- EU IST Project presentation (Nicola Bernardini) |
| 4h30-4h45 pm | Coffee break |
| 4h45-6h15 | Workshop on Sequential Analysis for the study of emotion (II) (Rene te Boekhorst) |

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| ***Wednesday 27 September*** | |
| ***Morning: Tutorial on Human Full-Body Movement and Gesture Analysis*** | |
| 9h00-11h00 am | Human full-body movement and gesture analysis computational models and computer tools (I) DIST, ICCS |
| 11h00-11h30 am | Coffee break |
| 11h30-1h00 pm | Human full-body movement and gesture analysis computational models and computer tools (II) DIST, ICCS |
| ***Afternoon: Tutorial on Multimodal Gesture Analysis*** | |
| 2h30-3h30 pm | Designing an integral music controller: introducing bio-sensing and emotional state estimation as a component of gestural control of sound synthesis (Ben Knapp) |
| 3h30-4h30 pm | Experiments with EyesWeb and BioMuse finalized to building the experimental setup for the concert Premio Paganini (I) (DIST, Ben Knapp) |
| 4h30-4h45 pm | Coffee break |
| 4h45-6h00 pm | Experiments with EyesWeb and BioMuse finalized to building the experimental setup for the concert Premio Paganini (II) (DIST, Ben Knapp) |

| Thursday 28 September | |
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| **Building the experimental setup for the concert Premio Paganini** | |
| 9h00-11h00 am | Presentation of the experimental setup for the Premio Paganini concert<br>Discussion and validation of the scenario, hypotheses, and procedure with Antonio Camurri, Ben Knapp, Carol Krumhansl |
| 11h00-11h30 am | Coffee break |
| 11h30-12h00 am | Conclusions: definition of the final specifications for the experiment |
| 12h00-1h00 pm | Technical set up on stage; videocameras and microphones with EyesWeb, BioMuse (I) |
| 1h00-2h30 pm | Lunch |
| 2h30-3h30 pm | Technical set up on stage; videocameras and microphones with EyesWeb, BioMuse (II) |
| 3h30-6h00 pm | Rehearsals and refinement of the setup |
| 9h00 pm | Public Concert |

# Experimental – Concert
# InfoMus Lab and Paganini Violin Competition "Premio Paganini" collaborative research project

**Casa Paganini, September 28th 2006**

On September 28th 9 p.m. at Casa Paganini, the new international centre of excellence of the University of Genoa for artistic production of new music projects related to new technologies and for scientific-technological research, a concert will take place with some of the semi-finalists of the Paganini International Violin Competition. The event will be at the same time a concert and a scientific experiment, where continuous measurements and investigation on emotional phenomena in music performance will be faced.

The aim of the experimental-concert is to investigate the relations between movement/gesture and emotion, with particular focus on the role of imitation/synchronization and empathy in processes regulating cognition and action, during a musical performance. The research is in the framework of the Summer School of the HUMAINE European Project (Network of Excellence IST – Information Society Technologies, Sixth Framework Programme).

The performance of the participants of "Paganini Competition" will be analysed and measured through specific multimedia interactive technologies, developed in HUMAINE and in other EU projects by InfoMus Lab and by HUMAINE partners. The result of the measurements will be shown and explained to audience in real time during the event.

The experimental-concert has been organised in collaboration with the University of Genoa, in particular with the InfoMus Lab DIST (Department of Information Science and Technology), and as a final public event of the *EU HUMAINE Summer School,* that will be held at Casa Paganini from September 22nd to 28th 2006.

**www.casapaganini.org**
**www.paganini.comune.genova.it**