3rd EyesWeb Week

Casa Paganini - InfoMus, DIST, University of Genoa
Piazza Santa Maria in Passione 34, 16123 Genova, Italy
8 - 12 February 2010

The EyesWeb Week is a one-week intensive tutorial aiming at sharing with participants the experience of InfoMus in scientific research, technological development, and artistic production matured around the EyesWeb project. EyesWeb focuses on the modelling and real-time analysis of non-verbal behaviour, full-body multimodal interaction and communication, expressive gesture, social behaviour, musical gesture. We aim at building systems and multimodal interfaces supporting full-body, non-verbal, affective, expressive, and social behaviour. Research is centered around the EyesWeb XMI open platform, for the development of such novel multimedia systems. This tutorial aims at providing scientists, engineers, musicians, dancers, artists and other professionals with the opportunity to master and explore in detail the EyesWeb project and open software platform. Lectures and experiments are structured in three different tracks. Artistic projects and applications participated and co-designed by InfoMus will be analysed and discussed.

Track 1: Tutorial for newcomers to EyesWeb XMI: design and development of simple EyesWeb applications, with a special focus to music, dance, and museum interactive systems.

Track 2: Experienced users and scientists interested to share and improve their skills on EyesWeb XMI will work on the analysis and design of interactive applications, interaction design, design of psychological experiments, design of artistic and industrial interactive applications.

Track 3: Platform kernel, distributed applications (EyesWeb Mobile, SAME Platform including support to Nokia S60), software design, support to scientific experiments on multimodal interfaces and systems.

Special sessions. The 3rd EyesWeb Week will include special sessions on the following topics:

1. New libraries and demos for active music listening (EU Project SAME, www.sameproject.eu), including extensions for S60 Nokia mobile phones.
2. Session on EyesWeb developments in the CoMeDiA project on networked music performance, including the presentation of the real-time infrastructure for the networked concert at the Hamburg Festival 2009, composer Andrea Cera.
3. Improvements to the EyesWeb Mobile platform, partially supported by Intel (Biomobius).
4. New version of the EyesWeb Expressive Gesture library.
5. Introduction to the new EyesWeb Social Signals library.
6. MetaEyesWeb 1.0: real-time, dynamic control of multiple patches, based on Python: interactive narrative structures and adaptive interactive systems.
7. Introduction to the new EyesWeb GPU Processing Library.
8. Presentation of the new interactive museum installations developed by Casa Paganini - InfoMus at Palazzo Ducale Fondazione per la Cultura and for the Festival della Scienza 2009.
9. Third party developments:
    a. Recent developments in collaboration with University of Mons, Belgium - NUMEDIART R&D program, on the analysis and archiving of dance, and on the analysis of social interactions in museum scenarios;
    b. New EyesWeb library for pattern recognition of gesture and the analysis of physiological signals: from the Sonic Arts Research Centre (SARC) – Queens University, Belfast;

Venue. The EyesWeb Week will be held at Casa Paganini (see www.casapaganini.org). Casa Paganini is located in the ancient complex of the ex-monastery of Santa Maria delle Grazie, in the heart of the historical centre of Genova. The 230-seats auditorium is a fascinating space of the 14th century, covered by a vault completely decorated with frescos. Casa Paganini also includes several museum rooms and is the site of InfoMus Lab since 2005.

Registration. Participants are asked to register by <u>sending their short CV, possible interest or activity in EyesWeb related projects, level of knowledge of EyesWeb, chosen Track, and motivation of their participation to theEyesWeb Week</u> to roberta@infomus.org. Registration fees: Track 1: 80 euro; Tracks 2: 160 Euro, Track 3: 160 Euro.

Committee. Antonio Camurri, Corrado Canepa, Francesca Cavallero, Paolo Coletta, Alessandro Fausto, Nicola Ferrari, Simone Ghisio, Donald Glowinski, Maurizio Mancini, Alberto Massari, Barbara Mazzarino, Massimiliano Peri, Andrea Ricci, Giovanna Varni, Gualtiero Volpe (Casa Paganini-InfoMus, DIST, University of Genova); Bertha Bermudez (ICKamsterdam); Nicola Bernardini (Conservatorio di Padova); Pietro Borgonovo (Artistic Director GOG – Giovine Orchestra Genovese); Andrea Cera (Composer); Carlo Chiorri (DISA, University of Genoa); Thierry Dutoit and Matei Mancas (University of Mons); Riccardo Dapelo, Roberto Doati (Music Conservatory of Genova "Niccolò Paganini", Scuola di Musica e Nuove Tecnologie); Maria Fontana (Palazzo Ducale Fondazione per la Cultura, Genova); Andrew Gerzso (IRCAM, Paris); Ben Knapp (SARC, Queens University of Belfast); Alvise Vidolin (CSC University of Padova).

Secretary: Roberta Fraguglia, InfoMus Lab, roberta@infomus.org.

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