

*Casa Paganini – InfoMus Research Centre, DIBRIS, University of Genoa  
Piazza Santa Maria in Passione 34, 16123 Genova, Italy  
9-11 March 2014*

The EyesWeb Week is an intensive tutorial aiming at sharing with participants the experience of the Casa Paganini – InfoMus Research Centre in the EyesWeb project. The main focus is on the EyesWeb XMI open software platform (freely available at [www.infomus.org](http://www.infomus.org)) for scientific research, development of innovative multimodal interfaces, systems, and applications to a growing number of fields, including therapy and rehabilitation, independent living, music theatre and artistic production, multimodal systems for active experience of cultural heritage, distributed and mobile apps.

EyesWeb XMI supports the development of computational models and real-time analysis of non-verbal human behavior: full-body multimodal interaction and communication, expressive gesture, social signals, musical gesture.

This tutorial aims at providing scientists, engineers, psychologists, therapists, 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 two parallel tracks (for experts and novices, respectively), and special sessions. Concrete projects and applications of the Casa Paganini - InfoMus research centre and of third parties will be presented and analyzed.

**Track Beginners:** Tutorial for newcomers to EyesWeb XMI: design and development of simple EyesWeb applications, with a special focus to scientific research and artistic creation: design of perceptual experiments on continuous measurement of human non-verbal behavior, interactive music systems, non-verbal social interaction, and museum interactive systems, mobile distributed apps.

**Track Experts:** Experienced users and scientists interested to share and improve their experience on EyesWeb XMI will work on the analysis and design of interactive systems using the EyesWeb SDK and development environment.

**The 4th EyesWeb Week is a joint event with the *EU Culture Project MetaBody Workshop* and of the *Erasmus Intensive Programme ISSSM 2014 – International School on Systematic Musicology and Sound and Music Computing*. Participants to the EyesWeb Week will have free access to the MetaBody Workshop.**

### **Special sessions:**

1. Real-time synchronized multimodal recordings, analysis of expressive gesture, emotions, and non-verbal social signals: how to record synchronized audio, video, motion capture (using the Qualisys motion capture system), and biometric signals. Examples of scientific experiments from the European projects ICT FET SIEMPRE, FET ILHAIRE, ASC INCLUSION, MIRROR, and recent work in the Culture Project MetaBody will be presented;
2. EyesWeb depth sensors libraries: motion data analysis and expressive gesture analysis using Kinect and Asus Xtion, including the support to multiple depth sensors on the same computer;
3. Applications for mobiles: how to develop EyesWeb applications integrating Android smartphones;
4. MetaEyesWeb and EyesWeb Mobile: develop adaptive, distributed interactive systems by means of a high-level programming environment supporting the control and activation of multiple EyesWeb patches in distributed environments, including mobiles, and customizable graphical-user interfaces;
5. Presentation of the Motion Composer project, an EyesWeb application developed by Palindrome, IMM, Casa Paganini-InfoMus.

**Venue.** The EyesWeb Week will be held at Casa Paganini ([www.casapaganini.org](http://www.casapaganini.org)), located in the ancient complex of the ex-monastery of Santa Maria delle Grazie La Nuova, in the heart of the historical centre of Genova, a fascinating monumental building of the 14th century site of the Casa Paganini – InfoMus research Centre.

**Application.** Participation is free for selected participants. Application: send to [giacomo.lepri@unige.it](mailto:giacomo.lepri@unige.it) a short CV, a short description of personal interest, motivation, and activity related to EyesWeb, the level of knowledge of EyesWeb and the chosen Track (Beginners or Experts).

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