



## **MUSCLE International Workshop on Computational Intelligence for Multimedia Understanding**

**Pisa, Italy, 13-15 December 2011**

12<sup>th</sup> July 2011 -- Deadline Extended

Organized by the ERCIM MUSCLE Working Group (<http://wiki.ercim.eu/wg/MUSCLE/>)

Co-sponsored by

**National Research Council of Italy, CNR**

**National Research Institute in Informatics and Automation, INRIA, France**

### **Call for Papers**

#### **Motivation**

**Multimedia understanding is an important part of many intelligent applications in our social life, be it in our households, or in commercial, industrial, service, and scientific environments. Analyzing raw data to provide them with semantics is essential to exploit their full potential and help us managing our everyday tasks. Nowadays, raw data normally come from a host of different sensors and other sources, and are different in nature, format, reliability and information content. Multimodal and cross-modal analysis are the only ways to use them at their best. Besides data analysis, this problem is also relevant to data description intended to help storage and mining. Interoperability and exchangeability of heterogeneous and distributed data is a need for any practical application. Semantics is information at the highest level, and inferring it from raw data (that is, from information at the lowest level) entails exploiting both data and prior information to extract structure and meaning. Computation, machine learning, statistical and Bayesian methods are tools to achieve this goal at various levels.**

#### **Scope and Topics**

**Our purpose is to provide an international forum to present and discuss current trends and future directions in computational intelligence for multimedia understanding. The workshop, organized by the ERCIM MUSCLE Working Group, also aims at fostering the creation of a permanent network of scientists and practitioners for an easy and immediate access to people, data and ideas.**

**The scientific program, organized in a single-session format, consists of invited lectures, contributed talks, and poster presentations.**

**We are looking for original and high-quality submissions addressing multimedia processing and understanding methodologies, ranging from statistical, neural, evolutionary methods to mixed reality and multisensor interaction, as well as a variety of applications, in the areas**

**of public services, transport/mobility, aids to impaired people, process control and diagnosis, remote sensing, and beyond.**

**Active participation of graduate students is strongly encouraged.**

**Suggested topics include, but are not limited to:**

- **Multisensor systems**
- **Multimodal analysis**
- **Crossmodal data analysis and clustering**
- **Mixed-reality applications**
- **Activity and object detection and recognition**
- **Text and speech recognition**
- **Multimedia labeling, semantic annotation, and metadata**
- **Multimodal indexing and searching in very large data-bases**
- **Case studies**

### **Invited Speakers**

Bulent Sankur, Bogazici University, Turkey

Sanni Siltanen, VTT, Finland

### **Submission, review, and publication**

The papers must be submitted electronically through the Springer's Online Conference Service (see "Website" below) and are subject to peer review. Original, high-quality contributions will be accepted for oral or poster presentation and will be published in the Springer-Verlag Lecture Notes in Computer Science (LNCS) series. Due to the tight schedule, even valuable papers needing major revisions will not be accepted for publication. The formatted manuscripts, produced through the Springer LNCS templates, must not exceed 12 pages, including figures and references.



### **Important dates**

Paper Submission ( <b>extended!</b> ):	<b>31 July, 2011</b>
Authors Notification:	<b>25 September, 2011</b>
Final Regular Paper Submission:	<b>7 October, 2011</b>
Workshop:	<b>13-15 December, 2011</b>

## Workshop Chairs

General chairs: Enis A. Cetin, Bilkent University, Turkey

Ovidio Salvetti, National Research Council of Italy

Program chair: Emanuele Salerno, National Research Council of Italy

## Program Committee

Rozenn Dahyot, Trinity College Dublin, Ireland

Patrick Gros, INRIA, France

Michal Haindl, UTIA, Czech Republic

Nahum Kiryati, Tel Aviv University, Israel

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Sanni Siltanen, VTT, Finland

Tamas Sziranyi, SZTAKI, Hungary

Anna Tonazzini, CNR, Italy

Simon Wilson, Trinity College Dublin, Ireland

Josiane Zerubia, INRIA, France

## Local Committee

Francesca Martinelli, CNR, Italy

Davide Moroni, CNR, Italy (chair)

Gabriele Pieri, CNR, Italy

Ettore Ricciardi, COCES and CNR, Italy (treasurer)

Marco Tampucci, CNR, Italy

## Website

All the relevant information, as well as online registration and submission, are available at

<http://muscle.isti.cnr.it/pisaworkshop2011/> .

## Registration

The early registration fee (for payments received by 26 November 2011) is 250 Euros per participant, and includes lectures, workshop material, proceedings, coffee breaks, lunches, welcome party, and social event. Late registration fee: 280 Euros.

## Venue

The workshop, hosted by the ISTI-CNR MUSCLE group, will be held in Pisa, Italy, at the conference center of the National Research Council of Italy (CNR), located on the North-East side of Pisa, at walking distance from the city center, to which is also well-connected by bus lines (see <http://www.area.pi.cnr.it> or <http://www.cpt.pisa.it/orari/pisa.htm>).

## Contact

For inquiries, please e-mail to Davide Moroni, [davide.moroni@isti.cnr.it](mailto:davide.moroni@isti.cnr.it) , specifying “MUSCLE Workshop” in the subject field.