



## AMIDA

Augmented Multi-party Interaction with Distance Access

<http://www.amidaproject.org/>

Integrated Project IST-033812

Funded under 6th FWP (Sixth Framework Programme)

Action Line: IST-2005-2.5.7 Multimodal interfaces

### Deliverable D9.2: MLMI'07 Proceedings

**Due date:** 31/12/2006

**Submission date:** 31/12/2006

**Project start date:** 1/10/2006

**Duration:** 36 months

**Lead Contractor:** USFD

**Revision:** 1

Project co-funded by the European Commission in the 6th Framework Programme (2002-2006)		
Dissemination Level		
PU	Public	✓
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



## **D9.2: MLMI'07 Proceedings**

**Abstract:**

Proceedings of the Fourth Workshop on Machine Learning and Multimodal Interaction (MLMI'07)

This book contains a selection of revised papers from the Fourth Workshop on Machine Learning for Multimodal Interaction (MLMI 2007), which took place in Brno, Czech Republic, on June 28–30, 2007. As in the previous editions of the MLMI series, the 26 chapters of this book cover a large area of topics, from multimodal processing and human-computer interaction to video, audio, speech and language processing. The application of machine learning techniques to problems arising in these fields, and the design and analysis of software supporting multimodal human-human and human-computer interaction, are the two overarching themes of this post-workshop book.

The MLMI 2007 workshop featured 18 oral presentations—two invited talks, 14 regular talks and two special session talks—and 42 poster presentations. The participants were not only related to the sponsoring projects, AMI/AMIDA (<http://www.amiproject.org>) and IM2 (<http://www.im2.ch>), but also to other large research projects on multimodal processing and multimedia browsing, such as CALO and CHIL. Local universities were well represented, as well as other European, US and Japanese universities, research institutions and private companies, from a dozen countries overall.

The invited talks were given respectively by Nick Campbell from the ATR Spoken Language Communication Research Labs in Kyoto, Japan—published as the opening chapter of this book—and by Václav Hlaváč from the Czech Technical University in Prague. The first day of the workshop included a special session with results from the second PASCAL Speech Separation Challenge (Part VII of the book), while the third day constituted the AMIDA Training Day. During the week following MLMI 2007, the Summer School of the European Masters in Speech and Language was also held at the Brno University of Technology. Oral presentations at the workshop were recorded using IDIAP's Presentation Acquisition System, thus making audio, video and slides publicly available at <http://mmm.idiap.ch/talks>.

The reviewing and revision process specific to the MLMI series ensured that high quality chapters based on oral and poster presentations appear in this book. Prior to the workshop, full paper submissions were reviewed by at least three members of the Programme Committee under the supervision of one of the five Area Chairs, some of the papers being accepted as oral presentations and some other as posters. Submitted at a later deadline, additional abstracts for posters were reviewed by Area Chairs. After the workshop, all poster presenters were invited to (re)submit full papers, which underwent a second round of reviewing, while authors of oral presentations were asked to revise their full papers based on feedback received during the first round. Overall, about two thirds of all submitted full papers appear in this book, which is also about one third of all submitted papers and abstracts.

As with previous MLMI workshops, the proceedings are published by Springer in the Lecture Notes in Computer Science series: LNCS-4892. The printed version is expected in December 2007, this deliverable includes a CDROM of the pdfs of the complete proceedings.