Proposal Submission Form

EUROPEAN COMMISSION
6th Framework Programme on
Research, Technological
Development and Demonstration

Specific Targeted Research or Innovation Projects

A1

Proposal Number	000000	Proposal Acronym	FACS

General Information on the Proposal

Proposal Title	Fully Automated multimedia Content management and personalised Synthesis
Duration in months	36
Call identifier	FP6-2004-IST-4

Activity code(s) most relevant to your topic

Activity code 1	IST-2004-2.4.7
Activity code 2	
Activity code 3	
Keyword 1	Multimedia content
Keyword 2	Multimedia techniques
Keyword 3	Image processing
Free Keywords	Audio/Video synthesis, Automated semantic annotation, Distributed retrieval, User profiling

Abstract (up to 2000 characters)

Within the Strategic Objective 2.4.7, the FACS Project addresses the theme “Exploring and bringing to maturity the intelligent content vision”.
The project aims at enabling a new modality for the acquisition of multimedia information which is interesting for users, through the automatic creation of interactive multimedia personalized presentations. These presentations are generated from Intelligent Objects that embed user pertinent clips from multimedia documents and provide the tools that adapt themselves automatically to the user needs (explicitly or implicitly expressed) and generate personalised interactive presentations.
The Project will heavily invest in research to develop the following activities:
- Definition of a model describing multimedia content that enhances and integrates emerging standards, such as MPEG7/21, and domain ontologies, such as OWL.
- Automated generation of media content descriptions, focusing on the acquisition of features and concept classifications, and on the recognition of rhetorical information.
- Development of advanced context models described in knowledge representation structures that can take into account the international standards as well as domain specific ontologies, and user profile models for personalization and contextualization of information and users. User context and profile will be dynamically updated and refined depending on external input including also the user interaction history.
- Management of descriptions of content and context/profiles in an highly distributed environment based on GRID technology. Definition of new techniques for efficient and effective search and filtering of information by using approximate match paradigm in addition to the exact match paradigm.
- Automated generation of Intelligent and active multimedia presentations. Definition of new techniques to generate professional quality interactive multimedia presentations starting from annotated (portions of) multimedia documents