From video segmentation to semantic indexing:
the PrestoSpace approach

R. Basili
University of Rome Tor Vergata,
Department of Computer Science, Systems and Production,
Via del Politecnico 1, 00133 Roma (Italy),
basili@info.uniroma2.it

Abstract

This talk will present the contribution of the European PrestoSpace project (EU-IST-FP6-2002-IST-1) to the study and development of a Metadata Access and Delivery (MAD) platform for multimedia and television broadcast archives. The mission of the MAD system, within the wider objectives of the PrestoSpace factory, is to generate, validate and deliver to the archive users metadata created by automatic and semi-automatic information extraction processes. The employed tools include audiovisual content analysis, speech recognition (ASR) and semantic analysis of the text extracted via ASR. The MAD publication platform provides access and search facilities to the imported and newly produced metadata in a friendly interface allowing ontology-based browsing of the archives as well as multilingual retrieval via natural language queries. The possibilities opened by the PrestoSpace framework to index and retrieve multimedia objects within large scale archives apply as well to more general scenarios where semantic retrieval is needed to cope with the complexity of the search process. The talk will present the core technological choices of the project and discuss their potentials with respect to best practices in tasks like mining and retrieval of multimedia material in open domains, like the Web.