

2010 Fifth International Workshop Semantic Media Adaptation and Personalization

(SMAP 2010)

**Limassol, Cyprus
9 – 10 December 2010**



**IEEE Catalog Number: CFP1011B-PRT
ISBN: 978-1-4244-8603-8**

2010 Fifth International Workshop on Semantic Media Adaptation and Personalization

SMAP 2010

Table of Contents

Preface	iii
Organizing Committee	v
Program Committee	vi
Sponsors.....	vii
Keynote Speakers	ix
6th International Workshop on Semantic Media Adaptation and Personalization	xv

Main Track

A1 – Multimedia Content Browsing and Representation

Navigation over Multilingual Content Using One Concept Space: Controlled Experiment	1
--	---

Petr Saloun, Zdenek Velart and Nekula

An Ontological Cognitive User Model for Adapting Generic Web Structures.....	7
---	---

*Panagiotis Germanakos, Mario Belk, Nikos Tsianos,
Zacharias Lekkas, Constantinos Mourlas, George Samaras*

Annotating Educational Content by Questions Created by Learners	13
--	----

Maroš Unčík, Mária Bieliková

User Modeling via Gesture and Head Pose Expressivity Features	19
---	----

George Caridakis, Stylianos Asteriadis, Kostas Kar pouzis

Data Collection and Normalization for Building the Scenario-Based Lexical Knowledge Resource of a Text-to-Scene Conversion System.....	25
---	----

Masoud Rouhizadeh, Margit Bowler, Richard Sproat, Bob Coyne

A2 – Multimedia Analysis

Automatic Media Segmentation within IEEE 1599-2008.....	31
---	----

Antonello D'Aguanno, Luca Andrea Ludovico, Davide Andrea Mauro

A Personalized Audio Server Using MPEG-7 and MPEG-21 Standards	37
--	----

*Emmanouil Skondras, Angelos Michalas,
Malamati Louta, Ioannis Anagnostopoulos*

User-Driven Recognition of Audio Events in News Videos	44
--	----

Theodoros Giannakopoulos, Sergios Petridis, Stavros Perantonis

A General Framework for Selecting Biometric Features for Automatic User Profiling.....	50
<i>Andreas Lanitis, Nicolas Tsapatsoulis</i>	
Self Adaptive Background Modeling for Identifying Persons' Falls	57
<i>Anastasios Doulamis, Ilias Kalisperakis, Christos Stentoumis, Nikolaos Matsatsinis</i>	
B1 – Multimedia Retrieval	
Multi-Form Hierarchical Representation of Image Categories for Browsing and Retrieval.....	64
<i>Esin Guldogan, Else Lagerstam, Thomas Olsson, Moncef Gabbouj</i>	
From Mid-Level to High-Level: Semantic Inference for Multimedia Retrieval	70
<i>Qianni Zhang, Ebroul Izquierdo</i>	
SPARQL2XQuery 2.0: Supporting Semantic-based Queries over XML Data.....	76
<i>Ioannis Stavrakantonakis, Chrisa Tsinaraki, Nikos Bikakis, Nektarios Gioldasis, Stavros Christodoulakis</i>	
Using a Region and Visual Word Approach towards Semantic Image Retrieval	85
<i>Yannis Evaggelos Spyrou, Kalantidis, Phivos Mylonas, Stefanos Kollias</i>	
Using an XML Schema to Validate a Formal Hardware Compiler.....	90
<i>Michael Dossis</i>	
B2 – Recommender Systems	
Property-Based Collaborative Filtering: A New Paradigm for Semantics-Based, Health-Aware Recommender Systems.....	98
<i>Martin Lopez-Nores, Yolanda Blanco-Fernandez, Jose Pazos-Arias, Rebeca P. Diaz-Redondo</i>	
Using Wikipedia to Alleviate Data Sparsity Issues in Recommender Systems	104
<i>Antonis Loizou, Srinandan Dasmahapatra</i>	
Expert Based Prediction of User Preferences	112
<i>Maria Dima, Dimitrios Vogiatzis, George Paliouras</i>	
Author Index	118