Project Description	**Spatial Context Evaluation Framework**
Task	**Comparative evaluation of spatial context exploitation techniques for different feature-classifier combinations**
Framework design	**G. Th. Papadopoulos, C. Saathoff, M. Grzegorzek, V. Mezaris, I. Kompatsiaris, S. Staab and M. G. Strintzis**
Framework developers	**G. Th. Papadopoulos (papad@iti.gr), C. Saathoff (saathoff@uni-koblenz.de), M. Grzegorzek (marcin@uni-koblenz.de)**
Institutes	**1. Informatics & Telematics Institute Centre for Research & Technology Hellas Thessaloniki, Greece 2. Institute for Computer Science University of Koblenz – Landau Koblenz, Germany**

Framework Description

Folder	Description
Images	Includes the assembled image set[1]. The collected images belong to the general category of outdoor images.
Segmentations	Includes the segmentation mask for every image. This is stored as grey scaled image (binary pgm format), where the intensity value at each pixel denotes the image region to which the particular pixel belongs. Pixel intensity receives values in the interval $[0, N-1]$, where N is the number of regions to which every image is segmented. In order to better visualize the segmentation masks use a .pgm image viewer and perform histogram equalization
Annotations	Includes the region-level manual image annotations, which were used for training and evaluation. Supported concepts: Building, Foliage, Mountain, Person, Road, Sailing-boat, Sand, Sea, Sky, Snow.
LowLevelFeatures	The low-level features extracted for every image segment. Two sets of features are available: a) MPEG-7 descriptors: Homogeneous Texture, Scalable Color, Edge Histogram and Region Shape, b) wavelet-based features.
DirectionalRelations	Includes the fuzzy directional spatial relations computed for every image. Supported spatial relations: Above (A), Above-Right (AR), Above-Left (AL), Right (R), Left (L), Below (B), Below-Right (BR), Below-Left (BL).

[1] Alinari 24 ORE, http://www.alinari.com, info: euproject-2@alinari.it

	Each spatial relation is estimated for every possible image region pair and receives values in the interval $[0,1]$. 'Ground' region denotes the image region used as reference, while 'Figure' region is the region whose relative position is estimated with respect to the 'ground' region.
ClassificationResults	The region-level classification results for the following feature-classifier combinations: MPEG-7-SVM, MPEG-7-ML, Wavelet-ML. A degree of confidence is estimated for every possible region-concept pair.