

# CONTENT BASED IMAGE RETRIEVAL BASICS, CONCEPTS AND TOOLS

623.714 Selected Topics in Distributed Multimedia Systems

January/February 2017



This course covers the state of the art in image indexing and retrieval techniques paying particular attention in recent trends and applications. It presents the basic notions and tools of content-based image description and retrieval, covering all significant aspects of image preprocessing, features extraction, similarity matching and evaluation methods. Particular emphasis is given in recent computational intelligence techniques for producing compact content based descriptors comprising color, texture and spatial distribution information as well as their combination with early and late fusion techniques for fast image retrieval from large probably distributed inhomogenous databases.



Savvas A. Chatzichristofis  
Dipl. Eng., Ph.D.  
<http://chatzichristofis.info/>



The objective of this course is to provide knowledge and experience in many areas of content based multimedia retrieval.

Topics include:

- Introduction to Image Processing
- Introduction to Content-Based Image Retrieval
- Applications of Content-Based Image Retrieval
- Implementation of a Content-Based Image Retrieval System
- Visual Place Recognition using CBMI Techniques

The Schedule will be available online!



LOGIN @ AAU.AT for detailed information and registration!