

Summary and Conclusions

Tutorial Image Retrieval

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Summary

1. Introduction
2. Content-based Image Retrieval
3. Text-based Image Retrieval
4. Combination of CBIR and TBIR
5. Relevance Feedback
6. Evaluation of IR

Introduction

- Motivation and aims for IR/CBIR/TBIR
- Questions, Expectations

Content-based Image Retrieval

- Two approaches
 - Continuous
 - Discrete
- Descriptors
 - Global, local, colour, texture, shapes
- Similarity measures
- Combinations
 - Correlations
 - Learning combinations
 - resources

Text-based Image Retrieval

- Why Text?
- Basics in text retrieval
- Stemming
- Ontologies, Hierarchies, Coding standards
- Resources
- Multilingual retrieval
- Diversity

Combinations of TBIR and CBIR

- Late vs. early fusion
- Direct fusion
 - Discrete approach
 - Continuous approach
- Fusion by refining
 - Multi-step
- User in the loop

Relevance Feedback

- Interfaces
- Combination Schemes
- System Tuning
- Evaluation of user interaction

Evaluation

- Aim of evaluations
- Evaluation campaigns
- Difficulties with evaluation
- Examples

Thank you for your attention

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