

# Image and Video Retrieval

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## Considering geometric information

1. Image Retrieval with Geometry-Preserving Visual Phrases  
Yimeng Zhang (Cornell University); Zhaoyin Jia (Cornell University); Tsuhan Chen;  
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2. Spatial-Bag-of-Features  
Yang Cao, Changhu Wang, Zhiwei Li, Liqing Zhang, Lei Zhang  
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## Query expansions

3. Total Recall II: Query Expansion Revisited  
Ondrej Chum; Andrej Mikulik (CMP, CTU Prague); Michal Perdoch (CMP, CTU Prague); Jiri Matas;  
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## Multi-attribute queries

4. Image Ranking and Retrieval Based on Multi-Attribute Queries  
Behjat Siddiquie (University of Maryland); Rogerio Feris; Larry Davis;  
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5. Combining attributes and Fisher vectors for efficient image retrieval  
Matthijs Douze; Arnau Ramisa (INRIA); Cordelia Schmid;  
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## Face retrieval

6. Face Image Retrieval by Shape Manipulation  
Brandon Smith (University of Wisconsin-Madison); Shengqi Zhu (University of Wisconsin-Madison); Li Zhang;  
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7. Scalable Face Image Retrieval with Identity-Based Quantization and Multi-Reference Re-ranking  
Zhong Wu, Qifa Ke, Jian Sun, Heung-Yeung Shum  
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## Support vector machines

8. Locality-Sensitive Support Vector Machine by Exploring Local Feature Correlation for Web Image Annotation  
Guo-Jun Qi (ECE, UIUC); Qi Tian (University of Texas at San Antonio); Thomas Huang (UIUC);  
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## Semantic indexing

9. Hierarchical Semantic Indexing for Large Scale Image Retrieval  
Jia Deng (Princeton University); Alexander Berg (Stony Brook University); Li Fei-Fei;  
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10. Towards Semantic Embedding in Visual Vocabulary  
Rongrong Ji, Hongxun Yao, Xiaoshuai Sun, Bineng Zhong, Wen Gao  
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11. Building and Using a Semantivisual Image Hierarchy  
Li-Jia Li, Chong Wang, Yongwhan Lim, David M. Blei, Li Fei-Fei  
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## Query-specific approaches

12. Query-Specific Visual Semantic Spaces for Web Image Re-ranking  
Ke Liu (CUHK); Xiaogang Wang (The Chinese University of Hong Kong);  
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13. Improving Web Image Search Results using Query-relative Classifiers  
Josip Krapac, Moray Allan, Jakob Verbeek, Frédéric Jurie  
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## Nearest-neighbor queries

14. Hello neighbor: accurate object retrieval with k-reciprocal nearest neighbors  
Qin Danfeng (ETH Zurich); Stephan Gammeter (ETH Zurich); Lukas Bossard (ETH Zurich); Till Quack; Luc VanGool;  
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15. Compact Projection: Simple and Efficient Near Neighbor Search with Practical Memory Requirements  
Kerui Min, Linjun Yang, John Wright, Lei Wu, Xian-Sheng Hua, Yi Ma  
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## Databases

16. SUN Database: Large Scale Scene Recognition from Abbey to Zoo  
Jianxiong Xiao, James Hays, Krista A. Ehinger, Aude Oliva, Antonio Torralba  
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## Image browsing

17. Image Webs: Computing and Exploiting Connectivity in Image Collections  
Kyle Heath, Natasha Gelfand, Maks Ovsjanikov, Mridul Aanjaneya, Leonidas J. Guibas  
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## Binary codes

18. Iterative Quantization: A Procrustean Approach to Learning Binary Codes  
Yunchao Gong; Svetlana Lazebnik (University of North Carolina at Chapel Hill);  
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## Hashing

19. Compact Hashing with Joint Optimization of Search Accuracy and Time

Junfeng He (Columbia University); Regunathan Radhakrishnan; Shih-Fu Chang; Claus Bauer;  
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20. Semi-Supervised Hashing for Scalable Image Retrieval

Jun Wang, Sanjiv Kumar, Shih-Fu Chang

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## Object detection

21. Unsupervised Auxiliary Visual Words Discovery for Large-Scale Image Object Retrieval

Yin-Hsi Kuo (National Taiwan University and Academia Sinica); Hsuan-Tien Lin; Wen-Huang  
Cheng; Yi-Hsuan Yang; Winston Hsu;

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22. Large-Scale Live Active Learning: Training Object Detectors with Crawled Data and Crowds

Sudheendra Vijayanarasimhan; Kristen Grauman;

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23. Unsupervised Detection and Segmentation of Identical Objects

Minsu Cho, Young Min Shin, Kyoung Mu Lee

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## Large-scale indexing

24. Aggregating Local Descriptors into a Compact Image Representation

Hervé Jégou, Matthijs Douze, Cordelia Schmid, Patrick Pérez

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25. Large-Scale Image Retrieval with Compressed Fisher Vectors

Florent Perronnin, Yan Liu, Jorge Sánchez, Hervé Poirier

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## Video

26. Interest Seam Image

Xiao Zhang, Gang Hua, Lei Zhang, Heung-Yeung Shum

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## Image annotation

27. Automatic Image Annotation Using Group Sparsity

Shaoting Zhang, Junzhou Huang, Yuchi Huang, Yang Yu, Hongsheng Li, Dimitris N. Metaxas  
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28. Tag-based Web Photo Retrieval Improved by Batch Mode Re-Tagging

Lin Chen, Dong Xu, Ivor Wai-Hung Tsang, Jiebo Luo

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## Self-similarity

29. Global and Efficient Self-Similarity for Object Classification and Detection

Thomas Deselaers, Vittorio Ferrari

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## Context-aware

30. Object-Graphs for Context-Aware Category Discovery

Yong Jae Lee, Kristen Grauman

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31. Exploiting Hierarchical Context on a Large Database of Object Categories

Myung Jin Choi, Joseph J. Lim, Antonio Torralba, Alan S. Willsky

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32. Content-Aware Ranking for Visual Search

Bo Geng, Linjun Yang, Chao Xu, Xian-Sheng Hua

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## Metric spaces and similarity function

33. Asymmetric Distances for Binary Embeddings

Albert Gordo (CVC / XRCE); Florent Perronnin;

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34. Towards Cross-Category Knowledge Propagation for Learning Visual Concepts

Guo-Jun Qi (ECE, UIUC); Yong Rui (Microsoft Corporation); Qi Tian (University of Texas at San Antonio); Thomas Huang (UIUC);

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## Landmark identifications

### 35. City-Scale Landmark Identification on Mobile Devices

David Chen (Stanford University); Georges Baatz (Department of Computer Science, ETH Zurich); Kevin Koeser; Sam Tsai; Ramakrishna Vedantham (Nokia Research Center, Palo Alto); Timo Pylvanainen; kimmo Roimela (Nokia Research Center); Xin Chen (Navteq); Jeff Bach (Navteq); Marc Pollefeys; Bernd Girod; Radek Grzeszczuk;  
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