

REFERENCES

- [1] S. Antani, R. Kasturi, and R. Jain, "A Survey on the Use of Pattern Recognition Methods for Abstraction, Indexing, and Retrieval of Images and Video," *Pattern Recognition*, vol. 35, no. 4, pp. 945–965, 2002.
- [2] A.W. Smeulders, M. Worring, S. Santini, A. Gupta, and R. Jain, "Content Based Image Retrieval at the End of the Early Years," *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 22, no.12, pp. 1349-1380, Dec.2000.
- [3] R. Datta, D. Joshi, J. Li, and J.Z. Wang, "Image Retrieval: Ideas, Influences, and Trends of the New Age," *ACM Comput. Surv.*, vol. 2, no. 2, pp. 1-60, May 2008.
- [4] M.S. Lew, N. Sebe, C. Djeraba and R. Jain, "Content-based Multimedia Information Retrieval: State of the Art and Challenges," *ACM Trans. Multimedia Computing, Communication, and Application*, vol. 2, no. 1, pp. 1-19, Feb.2006.
- [5] T. Deselaers, D. Keysers, and H. Ney, "Features for Image Retrieval: An Experimental Comparison," *Information Retrieval*, vol. 11, no. 2, pp. 77-107, Apr.2008.
- [6] Y. Deng, B. S. Manjunath, C. Kenney, M. S. Moore, and H. Shin, "An Efficient Color Representation for Image Retrieval," *IEEE Trans. Image Processing*, 10(1):140–147, 2001.
- [7] E. Hadjidemetriou, M. D. Grossberg, and S. K. Nayar, "Multiresolution Histograms and Their Use for Recognition," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 26(7), pp.831–847, 2004.
- [8] D. F. Huynh, S. M. Drucker, P. Baudisch, and C. Wong, "Time Quilt: Scaling up Zoomable Photo Browsers for Large, Unstructured Photo Collections," *Proc. ACM CHI*, pp. 123-128, 2005.

- [9] Q. Iqbal and J. K. Aggarwal, "Retrieval by Classification of Images Containing Large Manmade Objects Using Perceptual Grouping," *Pattern Recognition Journal*, 35(7), pp. 1463–1479, 2002.
- [10] J. Jeon, V. Lavrenko, and R. Manmatha, "Automatic Image Annotation and Retrieval using Cross-media Relevance Models", *Proc. ACM Conference on Research and Development in Information Retrieval*, pp. 229-234, 2003.
- [11] S. Jeong, C. S. Won, and R.M. Gray, "Image retrieval using color histograms generated by Gauss mixture vector quantization," *Computer Vision and Image Understanding*, 9(1–3), pp. 44–66, 2004.
- [12] R. Jin, J. Y. Chai, and L. Si, "Effective Automatic Image Annotation Via A Coherent Language Model and Active Learning," *Proc. ACM Multimedia*, pp. 118-125, 2004.
- [13] R. Jin and A.G. Hauptmann, "Using a Probabilistic Source Model for Comparing Images," *Proc. IEEE International Conference on Image Processing*, pp. 221-230, 2002.
- [14] F. Jing, M. Li, H.-J. Zhang, and B. Zhang, "An Efficient and Effective Region-Based Image Retrieval Framework," *IEEE Trans. Image Processing*, 13(5), pp. 699–709, 2004.
- [15] X. He, W.-Y. Ma, and H.-J. Zhang, "Learning an Image Manifold for Retrieval," *Proc. ACM Multimedia*, pp. 452-458, 2004.
- [16] J. Amores, N. Sebe, P. Radeva, T. Gevers, and A. Smeulders, "Boosting Contextual Information in Content-Based Image Retrieval," *Proc. Workshop on Multimedia Information Retrieval*, in conjunction with *ACM Multimedia*, pp. 320-326, 2004.
- [17] I. Bartolini, P. Ciaccia, and M. Patella, "WARP: Accurate Retrieval of Shapes Using Phase of Fourier Descriptors and Time Warping Distance," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 27(1), pp. 142–147, 2005.
- [18] S. Belongie, J. Malik, and J. Puzicha, "Shape Matching and Object Recognition Using Shape Contexts," *IEEE Trans. Pattern Analysis and Machine Intelligence*, pp. 509–522, 2002.

- [19] J. Carballido-Gamio, S. Belongie, and S. Majumdar “Normalized Cuts in 3-D for Spinal MRI Segmentation,” *IEEE Trans. Medical Imaging*, 23(1), pp. 36–44, 2004.
- [20] G. Carneiro and N. Vasconcelos, “Minimum Bayes Error Features for Visual Recognition by Sequential Feature Selection and Extraction,” *Proc. Canadian Conference on Computer and Robot Vision*, pp. 221-228, 2005.
- [21] C. Carson, S. Belongie, H. Greenspan, and J. Malik, “Blobworld: Image Segmentation Using Expectation-maximization and Its Application to Image Querying,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, 24(8), pp. 1026-1038, 2002.
- [22] J. Li, R. M. Gray, and R. A. Olshen, “Multiresolution Image Classification by Hierarchical Modeling with Two Dimensional Hidden Markov Models,” *IEEE Trans. Information Theory*, 46(5) pp. 1826–1841, 2000.
- [23] J. Li, D. Joshi, and J. Z. Wang, “Stochastic Modeling of Volume Images with a 3-D Hidden Markov Model,” *Proc. IEEE International Conference on Image Processing*, pp. 188-192, 2004.
- [24] J. Li and J. Z. Wang, “Automatic Linguistic Indexing of Pictures by a Statistical Modeling Approach,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, 25(9), pp. 1075–1088, 2003.
- [25] J. Malik, S. Belongie, T. K. Leung, and J. Shi, “Contour and Texture Analysis for Image Segmentation,” *International Journal of Computer Vision*, 43(1), pp. 7-27, 2001.
- [26] Q. Tian, N. Sebe, M. S. Lew, E. Loupias, and T. S. Huang, “Image Retrieval Using Wavelet-Based Salient Points,” *Journal of Electronic Imaging*, 10(4), pp. 835–849, 2001.
- [27] K. Tieu and P. Viola, “Boosting Image Retrieval,” *International Journal of Computer Vision*, 56(1/2), pp. 17-36, 2004.
- [28] J. Z. Wang, J. Li, R. M. Gray and G. Wiederhold, “Unsupervised Multiresolution Segmentation for Images with Low Depth of Field,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, 23(1), pp. 85–90, 2001.

- [29] J.Z. Wang, J. Li, and G. Wiederhold, "SIMPLicity: Semantics-Sensitive Integrated Matching for Picture Libraries," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 23(9), pp. 947–963, 2001.
- [30] Z. Tu and S.-C. Zhu, "Image Segmentation by Data-Driven Markov Chain Monte Carlo," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 24(5), pp. 657–673, 2002.
- [31] S. X. Yu and J. Shi, "Segmentation Given Partial Grouping Constraints," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 26(2), pp.173–183, 2004.
- [32] Q. Zhang, S. A. Goldman, W. Yu, and J. E. Fritts, "Content-Based Image Retrieval Using Multiple-Instance Learning," *Proc. International Conference on Machine Learning*, pp. 56-60, 2002.
- [33] Y. Zhang, M. Brady, and S. Smith, "Segmentation of Brain MR Images Through a Hidden Markov Random Field Model and the Expectation-Maximization Algorithm," *IEEE Trans. Medical Imaging*, 20(1), pp.45–57, 2001.
- [34] K. Mikolajczk and C. Schmid, "A Performance Evaluation of Local Descriptors," *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pp. 192-196, 2003.
- [35] P. Mitra, C.A. Murthy, and S.K. Pal, "Unsupervised Feature Selection Using Feature Similarity," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 24(3), pp. 301–312, 2002.
- [36] A. Natsev and J.R. Smith, "A Study of Image Retrieval by Anchoring," *Proc. IEEE International Conference on Multimedia and Expo*, pp. 221-225, 2003.
- [37] E. G. M. Petrakis, A. Diplaros, and E. Milios, "Matching and Retrieval of Distorted and Occluded Shapes Using Dynamic Programming," *IEEE Trans. Pattern Analysis and Machine Intelligence*, 24(4), pp. 509–522, 2002.
- [38] M. Pi, M. K. Mandal, and A. Basu, "Image Retrieval Based on Histogram of Fractal Parameters," *IEEE Trans. Multimedia*, 7(4), pp. 597–605, 2005.

- [39] K. Mikolajczyk and C. Schmid, “Scale and Affine Invariant Interest Point Detectors,” *International Journal of Computer Vision*, 60(1), pp.63–86, 2004.
- [40] D. Comaniciu and P. Meer, “Mean Shift: A Robust Approach Toward Feature Space Analysis,” *IEEE Trans. Pattern Analysis and Machine Intelligence*, 24(5), pp. 603–619, 2002.
- [41] M. N. Do and M. Vetterli, “Wavelet-Based Texture Retrieval Using Generalized Gaussian Density and Kullback-Leibler Distance,” *IEEE Trans. Image Processing*, 11(2), pp.146–158, 2002.
- [42] L. Zhu, A. Zhang, A. Rao, and R. Srihari, “Keyblock: An Approach for Content-Based Image Retrieval,” *Proc. ACM Multimedia*, 2000.
- [43] B. King, “Step-Wise Clustering Procedures,” *J. Amer. Statist. Assoc.*, vol. 69, pp. 86–101, 1967.
- [44] V. Klee and G. Minty, “How Good is the Simplex Algorithm,” in *Inequalities*, 1972, vol. 3, pp. 159–175.
- [45] A. Kushki, P. Androustos, K. N. Plataniotis, and A. N. Venetsanopoulos, “Query Feedback for Interactive Image Retrieval,” *IEEE Trans. Circuits Syst. Video Technol.*, vol. 14, no. 5, pp. 644–655, May 2004.
- [46] F. Long, H. Zhang, and D. D. Feng, “Fundamentals of Content Based Image Retrieval,” in *Multimedia Information Retrieval and Management Technological Fundamentals and Applications*. New York: Springer-Verlag, pp. 221-226, 2003.
- [47] M. K. Mandal, T. Aboulnasr, and S. Panchanathan, “Image Indexing Using Moment Sand Wavelets,” *IEEE Trans. Consum. Electron.*, vol.42, no. 3, pp. 557–565, Aug. 1996.
- [48] M. Oge and F. Borko, “Muse: A Content Based Image Search and Retrieval System Using Relevance Feedback,” *Multimedia Tools Appl.*, vol. 17, pp. 21–50, 2002.
- [49] A. Papoulis and S. U. Pillair, *Probability, Random Variables, and Stochastic Processes*. New York: McGraw-Hill, 2002.

- [50] S.-C. Pei and C.-M. Cheng, "Color Image Processing by Using Binary Quaternion Moment Preserving Thresholding Technique," *IEEE Trans. Image Process.*, vol. 8, no. 5, pp. 614–628, May 1999.
- [51] Y. Rubner, C. Tomasi and L.J. Guibas, "A Metric for Distributions with Applications to Image Databases," in *Proc. IEEE Int. Conf. Computer Vision*, pp. 59, 1998.
- [52] Y. Rui, T. S. Huang, and S.-F. Chang, "Image retrieval: Current Techniques, Promising Directions and Open issues," *J. Vis. Commun. Image Represent.*, vol. 10, no. 1, Mar. 1999.
- [53] M. Flickner, H. Sawhney, W. Niblack, J. Ashley, Q. Huang, B. Dom, M. Gorkani, J. Hafner, D. Lee, D. Petkovic, D. Steele, and P. Yanker, "Query by Image and Video Content: The QBIC system," *IEEE Computer*, vol. 28, no. 9, pp. 23–32, Sep. 1995.
- [54] J. B. Fraleigh, *A First Course in Abstract Algebra*. Reading, MA: Addison-Wesley, 1982.
- [55] H. Frigui, "Visualizing and Browsing Large Image Databases," in *Proc. Int. Conf. Information and Knowledge Engineering*, 2004, pp. 68–74.
- [56] R. M. Gray and D. L. Neuhoff, "Quantization," *IEEE Trans. Inf. Theory*, vol. 44, no. 6, pp. 2325–2383, Nov. 1998.
- [57] F.S. Hiller and G.J. Liberman, *Introduction to Mathematical Programming*. New York: McGraw-Hill, 1990.
- [58] A. Vailaya, M. A. T. Figueiredo, A. K. Jain, and H.-J. Zhang, "Image Classification for Content Based Indexing," *IEEE Trans. Image Process.*, vol. 10, no. 1, pp. 117–130, Jan. 2001.
- [59] A. Vailaya, A. K. Jain, and H.-J. Zhang, "On Image Classification: City Images vs. Landscapes," *Pattern Recognit.*, vol. 31, no. 10, pp. 1921–1935, 1998.
- [60] M. Stricker and M. Orengo, "Similarity of Color Images," in *Proc. Storage and Retrieval for Image and Video Databases (SPIE)*, pp. 381–392, 1995.
- [61] M.A. Fischler and R.C. Bolles, "Random Sample Consensus: A Paradigm for Model Fitting with Applications to Image Analysis and Automated Cartography," *Comm. ACM*, vol. 24, no. 6, pp. 381–395, Jun. 1981.

- [62] D.G. Lowe, "Distinctive Image Features from Scale-Invariant Keypoints," *Int'l J. Computer Vision*, vol. 60, no. 2, pp. 91-110, 2004. [11] J.S. Beis and D.G. Lowe, "Shaping Indexing Using Approximate Nearest-Neighbor Search in High-Dimensional Spaces," *IEEE*
- [63] Tao and Lew, "Image Retrieval Using Local Feature Correspondences", *Conf. Computer Vision and Pattern Recognition*, pp. 1000-1006, 1997.
- [64] C. Silpa-Anan and R. Hartley, "Optimized KD-trees for Fast Image Descriptor Matching," *IEEE Conf. Computer Vision and Pattern Recognition*, pp. 1-8, 2008.
- [65] M. Muja and D.G. Lowe, "Fast Approximate Nearest Neighbors with Automatic Algorithm Configuration," *Int'l Conf. Computer Vision Theory and Applications*, pp. 331-340, 2009.
- [66] R. Hartley and A. Zisserman, *Multiple View Geometry in Computer Vision*, second ed. Cambridge Univ., pp.321-326, 2003.
- [67] O. Chum, J. Matas, and J. Kittler, "Locally Optimized RANSAC," *Proc. Ann. Symp. German Assoc. for Pattern Recognition (DAGM '03)*, pp. 236-243, 2003.
- [68] R. Hartley, "Projective Reconstruction and Invariants from Multiple Images," *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 16, no. 10, pp. 1036-1041, Oct. 1994.
- [69] O. Chum and J. Matas, "Matching with PROSAC - Progressive Sample Consensus," *IEEE Conf. Computer Vision and Pattern Recognition*, vol. 1, pp. 220-226, Jun. 2005.
- [70] R. Hartley, "In Defence of the 8-point Algorithm," *Proc. Fifth Int'l Conf. Computer Vision (ICCV '95)*, pp. 1064-1070, Jun. 1995.
- [71] O. Chum and J. Matas, "Randomized RANSAC with T_{dd} Test," *Proc. British Machine Vision Conf. (BMVC '02)*, vol. 2, pp. 448-457, 2002.

- [72] T. Ojala, M. Pietikain, and T. Maenpaa, "Multiresolution Gray-Scale and Rotation Invariant Texture Classification with Local Binary Patterns," *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 24, no. 7, pp. 971-987, Jul. 2002.
- [73] T. Lindeberg, "Scale-space Theory: A Basic Tool for Analysing Structures at Different Scales," *J. Applied Statistics*, vol. 21, no. 2, pp. 224-270, 1994.
- [74] Chang, W., G., Wang, J. ZHANG, A. 1998. "Data Resource Selection in Distributed Visual Information Systems". *IEEE Trans. Knowl. DataEng*, pp. 926–946, 2010.
- [75] Cooper, B.F. Gracia, "Peer to Peer Data Trading to Preserve Information". *ACM Trans Info.Syst*, pp. 128-134, 2010.
- [76] Crespo, B.F. Gracia, "Routing Indices for Peer-to-Peer Systems", In *Proceedings of the International Conference on Distributed Computing Systems (ICDCS)*, pp. 120-131, 2005.
- [77] Faloutsis, C.Barber, "Efficient and Effective Querying by Image Content", *Journal of Intelligent Information Systems: Integrating Artificial Intelligence and Database Technologies* 3, 3-4, pp. 231–262, 2006.
- [78] I. King, "Lecture Notes in Computer Science", vol. 1351. Springer Verlag, pp. 410–417, 2006.
- [79] Cohen, and Shenkar, "Search and Replication in Unstructured Peer-to-Peer Network", In *Proceedings of the 16th ACM International Conference on Supercomputing (ICS'02)*. New York, pp. 56-60, 2010.
- [80] Ma W. and Manjuath B., "Natra: A Toolbox for Navigating Large Image Databases", In *Proceedings of the IEEE International Conference on Image Processing*. pp. 568– 571, 2002
- [81] Mehrotra, S. Rui, ,"Supporting Content-based Queries over Images in MARS", In *Proceedings of the IEEE International Conference on Multimedia Computing and Systems*, pp.632–633, 2004.

- [82] MIPLAB: The homepage of Multimedia Information Processing Lab, cse, cuhk. <http://www.cse.cuhk.edu.hk/~miplab>.
- [83] Mukherjee S., Hirata and Hara, “AMORE: a World Wide Web Image Retrieval Engine” In Conf. on World Wide Web. Vol. 2, pp. 115–132, 2006.
- [84] Ng, SIA K. C. “Peer Cluster and Firework Query Model”, In Poster Proceedings of The Eleventh International World Wide Web Conference, Poster ID 195. Hawaii.
- [85] Pentland, A. Picard, “Photobook: Tools for Content-based Manipulation of Image Databases”, In Proceedings of SPIE. Vol. 2185, pp. 34–47, 2008.
- [86] Ratnasamy, S. Francis, “A Scalable Content Addressable Network”, In Proceedings of ACM SIGCOMM, pp. 161–172, 2011.
- [87] Ratnasamy, Stoica. “Routing Algorithms for DHTs: Some Open Questions”, in Proceedings of the First International Peer-to-Peer Workshop, pp. 45–52, 2010.
- [88] Rowstron, and Druschel P. “Pastry: Scalable, Decentralized Object Location and Routing for Large-Scale Peer-to-Peer Systems”, In Proceedings of the 18th IFIP/ACM International Conference on Distributed Systems Platforms, pp. 329–350, 2010.
- [89] SETI: homepage: <http://www.setiathome.ssl.berkeley.edu/>.
- [90] Sia, K. C. NG, “Bridging the P2P and WWW Divide with DISCOVER—DISTRIBUTED Content-based Visual Information Retrieval”, In Poster Proceedings of The Twelfth International World Wide Web Conference, Poster ID S172. Hungary.
- [91] Smith R. and Chang S. F. “An Image and Video Search Engine for the World-Wide Web”, In Proceedings of SPIE. Vol. 3022, pp. 84–95, 2011.
- [92] Sripanikulchai, K. Maggs, “Efficient Content Location Using Interest Based Locality in Peer-to-Peer Systems”. In Proceedings of IEEE INFOCOM, pp. 222–228, 2003.
- [93] Stoica, I. Morris, “Chord: A Scalable Peer-to-Peer Lookup Service for Internet Applications” In Proceedings of ACM SIGCOMM pp. 149–160, 2011.

- [94] Tang, C. Xu, Mahalingam M., “Peer Search: Efficient Information Retrieval in Peer to-Peer Networks”, Tech. rep., HP Labs. July.2012
- [95] Wang, Sha X., “Content-based Image Indexing and Searching using Daubechies wavelets”, Int. J. Dig.Libraries 1, 4, pp. 311–328, 2010.
- [96] Wang,J.Z. Li, “SIMPLIcity: Semantics-sensitive Integrated Matching for Picture Libraries. in IEEE Trans. Pattern Anal. Mach. Intel. Vol. 23 pp. 947–963, 2008.
- [97] Zhao B. and Joseph A., “Tapestry: An Infrastructure for Fault-tolerant Wide-area Location and Routing”, Tech. rep., Computer Science Division, U.C. Berkeley. April.2010
- [98] The eDonkey2000 homepage:<http://www.edonkey2000.com>.
- [99] Freenet: The Freenet homepage. <http://freenet.sourceforge.net>.
- [100] The Limewire homepage: <http://www.limewire.org>
- [101] Napster: The Napster homepage. <http://www.napster.com>.
- [102] Abe, N.Mamitsuka, “Query Learning Strategies Using Boosting and Bagging”, in Proceedings of the 15th International Conference on Machine Learning, Madison, pp. 1–9, 1998.
- [103] Blum, A. Mitchell, “Combining Labeled and Unlabeled Data with Cotraining”, in Proceedings of the 11th Annual Conference on Computational Learning Theory, Madison, pp. 92–100,1998.
- [104] Bookstein.A, “Information Retrieval: A Sequential Learning Process”, Journal of the American Society for Information Science 34, pp. 331–342,1983.
- [105] Goldman S. , Zhou, Y. “Enhancing Supervised Learning with Unlabeled Data”, in Proceedings of the 17th International Conference on Machine Learning, San Francisco, pp. 327–334, 2000.

- [106] Jaakkola, T., Haussler, “Exploiting Generative Models in Discriminative Classifiers”, in Kearns, M.S., Solla, S.A., Cohn, D.A. (eds.): *Advances in Neural Information Processing Systems*, MIT Press, Cambridge, pp. 487–493,1999.
- [107] Joachims T, “Transductive Inference for Text Classification Using Support Vector Machines”, in *Proceedings of the 16th International Conference on Machine Learning*, Bled, Slovenia, pp. 200–209,1999.
- [108] Lewis D., “Representation and Learning in Information Retrieval”, PhD thesis, Department of Computer Science, University of Massachusetts, Amherst, pp. 321-327, 1992.
- [110] Lewis D., Gale W., “A Sequential Algorithm for Training Text Classifiers”, in *Proceedings of the 17th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, Dublin, Ireland, pp. 3–12, 1994.
- [111] Muslea I., Minton S., Knoblock, “Selective Sampling with Redundant Views”, in *Proceedings of the 17th National Conference on Artificial Intelligence*, Austin, pp. 621–626,2000.
- [112] Nigam K., McCallum A., Thrun, S., Mitchell, “Text Classification from Labeled and Unlabeled Documents using EM”, *Machine Learning*, pp. 103–134, 2000.
- [113] Rui Y., HuangT.S., Ortega M.Mehrotra., “Relevance Feedback: a Power Tool for Interactive Content Based Image Retrieval”, *IEEE Transactions on Circuits and Systems for Video Technology*, pp. 644–655,1998.
- [114] Seung H., Opper M., Sompolinsky H, “Query by committee”, in *Proceedings of the 5th ACM Workshop on Computational Learning Theory*, Pittsburgh, pp. 287–294,1992.
- [115] Tong S., Chang E., “Support Vector Machine Active Learning for Image Retrieval”, in *Proceedings of the 9th ACM International Conference on Multimedia*, Ottawa, Canada, pp. 107–118, 2001.

- [116] Wu, Y., Tian, Q., Huang, T.S., “Discriminant-EM Algorithm with Application to Image Retrieval”, in Proceedings of the IEEE International Conference on Computer Vision and Pattern Recognition, Hilton Head, pp. 222–227, 2000.
- [117] Zhang, C., Chen, T., “An Active Learning Framework for Content-Based Information Retrieval”, IEEE Transactions on Multimedia, pp. 260–268, 2002.
- [118] J. Laaksonen, M. Koskela, and E. Oja, “PicSOM: Self-Organizing Maps for Content-Based Image Retrieval,” in Proceedings of International Joint Conference on NN, pp. 112-118 July 1999.
- [119] S.D.MacArthur, C.E.Brodley, and C.-R.Shyu, “Relevance Feedback Decision Trees in Content-Based Image Retrieval,” in IEEE Workshop on Content-Based Access of Image and Video Libraries, pp. 68–72, 2000.
- [120] Z. Su, H. J. Zhang, and S. Ma, “Relevant Feedback using a Bayesian Classifier in Content-Based Image Retrieval,” in SPIE Electronic Imaging, San Jose, CA, pp. 174-182, January 2001.
- [121] K. Tieu and P. Viola, “Boosting Image Retrieval,” in IEEE Conference on Computer Vision and Pattern Recognition, pp. 236-242, 2000.
- [122] S. Tong and E. Chang, “Support Vector Machine Active Learning for Image Retrieval,” in ACM Multimedia, Ottawa, Canada, pp. 128-132, 2001.
- [123] N. Vasconcelos and A. Lippman, “Learning from User Feedback in Image Retrieval Systems,” in NIPS’99, Denver, CO, pp. 28-36, 1999.
- [124] P. Wu and B. S. Manjunath, “Adaptive Nearest Neighbour Search for Relevance Feedback in Large Image Database,” in ACM Multimedia Conference, Ottawa, Canada, pp. 145-152, 2001.
- [125] Y. Wu, Q. Tian, and T. S. Huang, “Discriminant EM Algorithm with Application to Image Retrieval,” in IEEE CVPR, South Carolina, pp. 128-136, 2000.

- [126] I. J. Cox, T. P. Minka, T. V. Papathomas, and P. N. Yianilos, “The Bayesian Image Retrieval System, PicHunter: Theory, Implementation, and Psychophysical Experiments,” *IEEE Transactions on Image Processing, Special Issue on Digital Libraries*, pp. 112-118, 2000.
- [127] J. Philbin, O. Chum, M. Isard, J. Sivic, and A. Zisserman, “Lost in Quantization Improving Particular Object Retrieval in Large Scale Image Databases,” *Image*, vol. 9, no. 14, pp. 15–17, 2010.
- [128] P. Duygulu, K. Barnard, J. De Freitas, and D. Forsyth, “Object Recognition as Machine Translation: Learning a Lexicon for a Fixed Image Vocabulary,” *Lecture Notes in Computer science*, pp. 97–112, 2002.
- [129] J. Li and J. Wang, “Automatic Linguistic Indexing of Pictures by a Statistical Modeling Approach,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 2, pp. 1075–1088, 2003.
- [130] O. Chum and J. Matas, “Web Scale Image Clustering: Large Scale Discovery of Spatially Related Images,” *Technical Report CTU-CMP, Czech Technical University in Prague, Tech. Rep.*, pp. 118-123, 2008.
- [131] H. Jegou, M. Douze, and C. Schmid, “Hamming Embedding and Weak Geometric Consistency for Large Scale Image Search,” *ECCV*, pp. 123-128, Oct, 2008.
- [132] O. Chum and J. Matas, “Geometric Hashing with Local Affine Frames,” in *Computer Vision and Pattern Recognition*, vol. 1, 2006, pp. 879–884.
- [133] R. Fergus, P. Perona, and A. Zisserman, “Object Class Recognition by Unsupervised Scale-Invariant Learning,” in *Computer Vision and Pattern recognition*, vol. 2. IEEE Computer Society; 1999, 2003, pp. 1575– 1589.

- [134] V. Ferrari, T. Tuytelaars, and L. Van Gool, “Simultaneous Object Recognition and Segmentation from Single or Multiple Model Views,” *International Journal of Computer Vision*, vol. 67, no. 2, pp. 159–188, 2006.
- [135] Y. Ke, R. Sukthankar, and L. Huston, “Efficient Near-Duplicate Detection and Sub-Image Retrieval,” in *ACMA C Multimedia*, vol. 9, no. 14. IEEE Computer Society; pp. 869–876, 2004.
- [136] S. Lazebnik, C. Schmid, and J. Ponce, “Semi-Local Affine Parts for Object Recognition,” in *British Machine Vision Conference*, vol. 2, pp. 959–968, 2004.
- [137] D. Omercevic, O. Drbohlav, and A. Leonardis, “High-Dimensional Feature Matching: Employing the Concept of Meaningful Nearest Neighbors,” in *IEEE 11Th International Conference on Computer Vision*, pp. 1–8, 2007.
- [138] J. Philbin, O. Chum, M. Isard, J. Sivic, and A. Zisserman, “Object Retrieval with Large Vocabularies and Fast Spatial Matching,” in *Proc. C V P R*, vol. 3613, pp. 1575–1589, 2007.
- [139] H. Bay, A. Ess, T. Tuytelaars, and L. V. Gool, “Speeded-up Robust features (SURF),” *Comput. Vis. Image Underst.*, vol. 110, no. 3, pp. 346–359, 2008.
- [140] D. G. Lowe, “Distinctive Image Features from Scale-Invariant Keypoints,” *Int. J. Comput. Vision*, vol. 60, no. 2, pp. 91–110, 2004.
- [141] T. Lindeberg, *Scale-Space Theory in Computer Vision*, Kluwer Academic Print on Demand, 1994.
- [142] A. Neubeck and L. Van Gool, “Efficient Non-Maximum Suppression,” in *Pattern Recognition, 2006.ICPR 2006.18th International Conference on*, vol. 3, pp. 188–192, 2006.

- [143] J. MacQueen, “Some Methods for Classification and Analysis of Multivariate Observations,” in Proceedings of 5th Berkeley Symposium on Mathematical Statistics and Probability, pp. 1–297, 2008.
- [144] H. Jegou, M. Douze, and C. Schmid, “Hamming Embedding and Weak Geometric Consistency for Large Scale Image Search,” in European Conference on Computer Vision, ser. LNCS, A. Z. David Forsyth, Philip Torr, Ed. Springer, Oct 2008.
- [145] J. Philbin, O. Chum, M. Isard, J. Sivic, and A. Zisserman, “Object Retrieval with Large Vocabularies and Fast Spatial Matching,” in Proc. CVPR, pp. 212–220, 2007.
- [146] J. Freidman, J. Bentley, and R. Finkel, “An Algorithm for Finding Best Matches in Logarithmic Expected Time,” ACM Transactions on Mathematical Software (TOMS), vol. 3, no. 3, pp. 209–226, 1977.
- [147] J. Bentley, “Multidimensional Binary Search Trees Used for Associative Searching,” Communications of the ACM, vol. 18, no. 9, pp. 509–517, 1975.
- [148] A. Moore, “An Intoductory Tutorial on kd-Trees,” Technical Report, Tech. Rep.
- [149] S. Omohundro, “Efficient Algorithms with Neural Network Behavior,” Complex Systems, vol. 1, no. 2, pp. 273–347, 1987.
- [150] D. Squire, W. Muller, H. Muller, and T. Pun, “Content-Based Query of Image Databases: Inspirations from Text Retrieval,” Pattern Recognition Letters, vol. 21, no. 13–14, pp. 1193–1198, 2000.
- [151] I. Witten, A. Moffat, and T. Bell, Managing Gigabytes: Compressing and Indexing Documents and Images”, Morgan Kaufmann, pp. 321–326, 1999.

- [152] Y. Rui, T. Huang, and S. Mehrotra, "Content-Based Image Retrieval with Relevance Feedback in MARS," in *Image Processing, 1997. Proceedings., International Conference on*, vol. 2, pp. 328-332, 1997.
- [153] M. Kanade, "Video Skimming and Characterization through the Combination of Image and Language Understanding," in *Proceedings of the 1998 International Workshop on Content-Based Access of Image and Video Databases (CAIVD'98)*. IEEE Computer Society Washington,DC, USA, pp. 61-68, 1998.
- [154] J. Sivic and A. Zisserman, "Video google: A text Retrieval Approach to Object Matching in Videos," in *ICCV '03: Proceedings of the Ninth IEEE International Conference on Computer Vision*. Washington, DC, USA: IEEE Computer Society, pp. 1470-1476, 2003.
- [155] O. Chum, J. Philbin, and A. Zisserman, "Near Duplicate Image Detection: Min-Hash and tf-idf Weighting," in *Proceedings of the British Machine Vision Conf.*, pp. 221, 2005.

PUBLICATIONS

- Vinayak Gajanan Kottawar, Dr. Archana M. Rajurkar, “Geometric Consistency Preserving Technique for Content Based Image Retrieval on P2P Network,” Communicated to International Journal of Multimedia Information Retrieval, Springer.
- Vinayak Gajanan Kottawar, Dr. Archana M. Rajurkar, “A Novel Approach for Object Based Image Retrieval”, Communicated to Journal of Information Processing Systems(Korea Information Processing Society).
- Vinayak Gajanan Kottawar, Dr. Archana M. Rajurkar, “Content Based Image Retrieval in Cloud Environment”, Communicated to Journal of Information Processing Systems(Korea Information Processing Society).
- V.G. Kottawar and Dr. Mrs. A.M. Rajurkar, “Moment Preserving Technique for Color Feature Extraction in Content Based Image Retrieval”, Proc. IEEE International Conference on Computer & Communication Technologies, Hyderabad, India, 11-13, pp. 1 -5, Dec. 2014.
- V.G. Kottawar and Dr. Mrs. A.M. Rajurkar,“ Color Feature Extraction in Content based Image Retrieval based on Quaternion Space” in International Journal of Computer Applications, Volume 107 –Number 20, March 2014
- V.G. Kottawar and Dr. Mrs. A.M. Rajurkar, “Uncertainty Based Sampling Approach for Relevance Feedback in Content Based Image Retrieval” in International Journal of Information Technology and Computer Science, Volume 4 Issue 4, December 2014.