

DAFTAR PUSTAKA

- [1] Y. Liu, D. Zhang, G. Lu, and W.-Y. Ma, "A survey of content-based image retrieval with high-level semantics," *Pattern Recogn*, vol. 40, pp. 262–282, 2007.
- [2] I. Dimitrovski, D. Kocev, S. Loskovska, and S. Dzeroski, "Improving bag-of-visual-words image retrieval with predictive clustering trees," *Information Sciences*, vol. 329, pp. 851–865, 2016.
- [3] P.K.Bhagat and P.Choudhary, "Image annotation: Then and now," *Image and Vision Computing*, vol. 80, pp. 1–23, 2018.
- [4] A. Alfanindya, N. Hashim, and C. Eswaran, "Content based image retrieval and classification using speeded-up robust features (surf) and grouped bag-of-visual-words (gbovw)," in *International Conference on Technology, Informatics, Management, Engineering and Environment (TIME-E)*, 2013.
- [5] M. Indu and K. V. Kavitha, "Survey on sketch based image retrieval methods," in *International Conference on Circuit, Power and Computing Technologies*, 2016.
- [6] L. Zhuo, Z. Geng, J. Zhang, and X. g. Li, "ORB feature based web pornographic image recognition," *Neurocomputing*, vol. 173, 2016.
- [7] J. Yue, Z. Li, L. Liu, and Z. Fu, "Content-based image retrieval using color and texture fused features," *Mathematical and Computer Modelling*, vol. 54, 2011.
- [8] J. Zou, W. Li, C. Chen, and Q. Du, "Scene classification using local and global features with collaborative representation fusion," *Information Sciences*, vol. 348, 2016.
- [9] C. C. Yan, Y. Liu, H. Xie, Z. Liao, and J. Yin, "Extracting salient region for pornographic image detection," *J. Vis. Commun. Image R.*, vol. 25, 2014.
- [10] R. Datta, D. Joshi, J. Li, and J. Z. Wang, "Image retrieval: Ideas, influences, and trends of the new age," *ACM Computing Surveys (CSUR)*, vol. 40, 2008.
- [11] H. Bannour, L. Hlaoua, and B. Ayeb, "Survey of the adequate descriptor for content-based image retrieval on the web: Global versus local features," in *Conférence en Recherche d'Information et Applications*, 2009.
- [12] H. Kwasnicka, M. Paradowski, M. Stanek, M. Szytkowski, and A. Sluzek, "Image similarities on the basis of visual content-an attempt to bridge the semantic gap," in *Lecture Notes in Artificial Intelligence 6591*, 2011.
- [13] Q. Zhu, Y. Zhong, B. Zhao, G. Xia, and L. Zhang, "Bag-of-visual-words scene classifier with local and global features for high spatial resolution remote sensing imagery," in *12th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD)*, 2015.
- [14] T. Deselaers, L. Pimenidis, and H. Ney, "Bag-of-visual-words models for adult image classification and filtering," in *International Conference on Pattern Recognition*, 2008.

- [15] Q. Zhu, Y. Zhong, Y. Liu, L. Zhang, and D. Li, "A deep-local-global feature fusion framework for high spatial resolution imagery scene classification," *Remote Sensing*, vol. 10, pp. 1–22, 2018.
- [16] M.-I. Georgescu, R. T. Ionescu, and M. Popescu, "Local learning with deep and handcrafted features for facial expression recognition," *IEEE Access*, vol. 7, pp. 64 827–64 836, 2019.
- [17] R. Banaeeyan, M. H. Lye, M. F. A. Fauzi, H. A. Karim, and J. See, "Unsupervised face image retrieval using adjacent weighted component-based patches," in *6th International Conference on Intelligent and Advanced Systems (ICIAS)*, 2006.
- [18] A. A. Olaode, G. Naghdy, and C. A. Todd, "Bag-of-visual words codebook development for the semantic content based annotation of images," in *11th International Conference on Signal-Image Technology and Internet-Based Systems*, 2015.
- [19] W.-C. Lin, C.-F. Tsai, Z.-Y. Chen, and S.-W. Ke, "Keypoint selection for efficient bag-of-words feature generation and effective image classification," *Information Sciences*, vol. 329, 2016.
- [20] C.-H. Lee, F. Gutierrez, and D. Dou, "Calculating feature weights in naive bayes with kullback-leibler measure," in *11th IEEE International Conference on Data Mining*, 2011.
- [21] H. Zhou, J. Guo, and Y. Wang, "A feature selection approach based on term distributions," *SpringerPlus*, vol. 5, pp. 118–173, 2016.
- [22] C. Jin, T. Ma, R. Hou, M. Tang, Y. Tian, A. Al-Dhelaan, and M. Al-Rodhaan, "Chi-square statistics feature selection based on term frequency and distribution for text categorization," *IETE Journal of Research*, vol. 61, pp. 351–362, 2015.
- [23] D. W. Aha, D. Kibler, and M. K. Albert, "Instance-based learning algorithms," *Machine Learning*, vol. 6, 1991.
- [24] D. R. Wilson and T. R. Martinez, "Reduction techniques for instance-based learning algorithms," *Machine Learning*, vol. 38, 2000.
- [25] H. Brighton and C. Mellish, "Advances in instance selection for instance-based learning algorithms," *Data Mining and Knowledge Discovery*, vol. 6, 2002.
- [26] S. Zahra, M. A. Ghazanfar, A. Khalid, M. A. Azam, U. Naeem, and A. Prugel-Bennett, "Novel centroid selection approaches for kmeans-clustering based recommender systems," *Information Sciences*, vol. 320, pp. 156–189, 2015.
- [27] T. Sabbah, A. Selamat, M. H. Selamat, F. S. Al-Anzid, E. H. Viedma, O. Krejcar, and H. Fujita, "Modified frequency-based term weighting schemes for text classification," *Applied Soft Computing*, vol. 58, 2017.
- [28] K. Chen, Z. Zhang, J. Long, and H. Zhang, "Turning from TF-IDF to TF-IGM for term weighting in text classification," *Expert Systems with Applications*, vol. 66, 2016.

- [29] S. Plansangkiet and J. Q. Gan, "A new term weighting scheme based on class specific document frequency for document representation and classification," in *Proceeding of 7th Computer Science and Electronic Engineering Conference (CEEC)*, 2015.
- [30] J. W. Reed, Y. Jiao, T. E. Potok, B. A. Klump, M. T. Elmore, and A. R. Hurson, "TF-ICF: A new term weighting scheme for clustering dynamic data streams," in *5th International Conference on Machine Learning and Applications, ICMLA*, 2006.
- [31] M. Lan, C. L. Tan, J. Su, and Y. Lu, "Supervised and traditional term weighting methods for automatic text categorization," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 31, pp. 721–735, 2009.
- [32] F. Sebastiani, "Machine learning in automated text categorization," *ACM Computing Surveys*, vol. 34, pp. 1–47, 2002.
- [33] F. Debole and F. Sebastiani, "Supervised term weighting for automated text categorization," in *Proceedings of the ACM symposium on applied computing*, 2003, pp. 784–788.
- [34] Y. Yang and J. O. Pedersen, "A comparative study on feature selection in text categorization," in *Proceedings of the fourteenth international conference on machine learning (ICML'97)*, 1997, pp. 412–420.
- [35] H. T. Ng, W. B. Goh, and K. L. Low, "Feature selection, perceptron learning, and a usability case study for text categorization," in *Proceedings of SIGIR-97, 20th ACM international conference on research and development in information retrieval*, 1997, pp. 67–73.
- [36] Y. Liu, H. T. Loh, and A. Sun, "Imbalanced text classification: A term weighting approach," *Expert Systems with Applications*, vol. 36, pp. 690–701, 2009.
- [37] F. Ren and M. G. Sohrab, "Class-indexing-based term weighting for automatic text classification," *Information Sciences*, vol. 236, 2013.
- [38] V. Lertnattee and T. Theeramunkong, "Analysis of inverse class frequency in centroid-based text classification," in *IEEE International Symposium on Communications and Information Technology*, 2004.
- [39] D. Wang and H. Zhang, "Inverse-category-frequency based supervised term weighting scheme for text categorization," *Journal of Information Science and Engineering*, vol. 29, pp. 209–225, 2013.
- [40] Y.-G. Jiang, J. Yang, C.-W. Ngo, and A. G. Hauptmann, "Representations of keypoint-based semantic concept detection: A comprehensive study," *IEEE Trans. Multi-media*, vol. 12, pp. 42–53, 2010.
- [41] H. Brighton and C. Mellish, "Advances in instance selection for instance-based learning algorithms," *Data Mining and Knowledge Discovery*, vol. 6, pp. 153–172, 2002.

- [42] A. Bahrololoum and H. Nezamabadi-pour, "A multi-expert based framework for automatic image annotation," *Pattern Recognition*, vol. 61, pp. 169–184, 2017.
- [43] M. Ivasic-Kos, M. Pobar, and S. Ribaric, "Two-tier image annotation model based on a multi-label classifier and fuzzy-knowledge representation scheme," *Pattern Recognition*, vol. 52, pp. 287–305, 2016.
- [44] D. Lowe, "Object recognition from local scale invariant features," in *Proceedings of the 7th International Conference on Computer Vision*, 1999.
- [45] H. Bay, T. Tuytelaars, and L. V. Gool, "SURF: Speeded up robust features," in *European Conference on Computer Vision*, 2006.
- [46] T.-N. Do, P. Lenca, and S. Lallich, "Classifying many-class high-dimensional fingerprint datasets using random forest of oblique decision trees," *Vietnam J Comput Sci*, vol. 2, 2015.
- [47] A. Mahiddine, J. Seinturier, J.-M. Boï, P. Drap, and D. Merad, "Performances analysis of underwater image preprocessing techniques on the repeatability of SIFT and SURF descriptors," in *Proceedings of the 20th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision WSCG*, 2012.
- [48] K. Li, F. Wang, and L. Zhang, "A new algorithm for image recognition and classification based on improved bag of features algorithm," *Optik*, vol. 127, 2016.
- [49] L. Kabbai, M. Abdellaoui, and A. Douik, "Content based image retrieval using local and global features descriptor," in *2nd International Conference on Advanced Technologies for Signal and Image Processing*, 2016.
- [50] A. Aravindan and S. M. Anzar, "Robust partial fingerprint recognition using wavelet SIFT descriptors," *Pattern Analysis and Applications*, vol. 20, pp. 963–979, 2017.
- [51] I. Pavaloi and A. Ignat, "Iris image classification using SIFT features," in *23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems*, 2019, pp. 241–250.
- [52] S. Gupta, K. Thakur, and M. Kumar, "2D-human face recognition using SIFT and SURF descriptors of face's feature regions," *The Visual Computer*, vol. 93, 2020.
- [53] S. N. Bhojane and P. R. Futane, "Partial duplicate image retrieval using fast visual word generation technique," in *IEEE International Conference on Computer, Communication and Control*, 2015.
- [54] J. Hou, J. Kang, and N. Qi, "On vocabulary size in bag-of-visual-words representation," in *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 2010.
- [55] J. Yang, Y.-G. Jiang, A. G. Hauptmann, and C.-W. Ngo, "Evaluating bag-of-visual-words representations in scene classification," in *Proceedings of the international Workshop on Workshop on Multimedia information Retrieval*, 2007.

- [56] M. Shahriari and R. Bergevin, "Land-use scene classification: a comparative study on bag of visual word framework," *Multimed Tools Appl*, vol. 76, pp. 23 059–23 075, 2017.
- [57] S. Chimlek, P. Pramokchon, and P. Piamsa-nga, "The selection of useful visual words in class-imbalanced image classification," *International Journal of Electrical and Computer Engineering*, vol. 6, 2016.
- [58] T. Urruty, S. Gbèhounou, H. T. Le, J. Martinet, and C. Fernandez, "Iterative random visual word selection," in *Proceedings of International Conference on Multimedia Retrieval*, 2014.
- [59] X. Chen, X. Hu, and X. Shen, "Spatial weighting for bag-of-visual-words and its application in content-based image retrieval," in *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 2009.
- [60] W. Bouachir, M. Kardouchi, and N. Belacel, "Improving bag of visual words image retrieval: A fuzzy weighting scheme for efficient indexation," in *5th International Conference on Signal Image Technology and Internet Based Systems*, 2009.
- [61] S. Choi and S. Han, "Evaluating weighting schemes for adult image detection using bag of visual words," in *International Conference on ICT Convergence (ICTC)*, 2013.
- [62] Z.-H. Deng, K.-H. Luo, and H.-L. Yu, "A study of supervised term weighting scheme for sentiment analysis," *Expert Systems with Applications*, vol. 41, 2014.
- [63] L. Liu, J. Kang, J. Yu, and Z. Wang, "Comparative study on unsupervised feature selection methods for text clustering," in *Proceedings of 2005 IEEE International Conference on Natural Language Processing and Knowledge Engineering*, 2005.
- [64] A. Gunes, H. Kalkan, and E. Durmus, "Optimizing the color-to-grayscale conversion for image classification," *Signal Image and Video Processing*, vol. 10, pp. 853–860, 2015.
- [65] Y. Benezeth, A. Bertaux, and A. Manceau, "Bag-of-word based brand recognition using markov clustering algorithm for codebook generation," in *Proceedings of International Conference on Image Processing, ICIP*, 2015.
- [66] A. Bolovinou, I. Pratikakis, and Perantonis, "Bag of spatio-visual words for context inference in scene classification," *Pattern Recognition*, vol. 46, 2013.
- [67] D. Aldavert, M. Rusiñol, R. Toledo, and J. Lladós, "A study of bag-of-visual-words representations for handwritten keyword spotting," *International Journal on Document Analysis and Recognition*, vol. 18, 2015.
- [68] C.-F. Tsai, "Bag-of-words representation in image annotation: A review," *ISRN Artificial Intelligence*, vol. 2012, 2012.
- [69] C. Cortes and V. Vapnik, "Support-vector networks," *Machine Learning*, vol. 20, pp. 273–297, 1995.

- [70] J. Xiao, "SVM and KNN ensemble learning for traffic incident detection," *Physica A: Statistical Mechanics and its Applications*, vol. 517, pp. 29–35, 2019.
- [71] C. Hentschel and H. Sack, "Does one size really fit all?: Evaluating classifiers in bag-of-visual-words classification," in *Proceedings of the 14th International Conference on Knowledge Technologies and Data-driven Business*, 2014.
- [72] G.-S. Cho, N. Gantulga, and Y.-W. Choi, "A comparative study on multi-class SVM & kernel function for land cover classification in a KOMPSAT-2 image," *KSCE Journal of Civil Engineering*, vol. 21, pp. 1894–1904, 2017.
- [73] J. Zhang, M. Marszałek, S. Lazebnik, and C. Schmid, "Local features and kernels for classification of texture and object categories: A comprehensive study," *International Journal of Computer Vision*, vol. 73, pp. 213–238, 2007.
- [74] F. Deng, S. Guo, R. Zhou, and J. Chen, "Support vector ensemble for incipient fault diagnosis in nuclear plant components," *IEEE Transactions on Automation Science and Engineering*, vol. 14, pp. 1053–1063, 2017.
- [75] T. Pal, "Multiclass approaches for support vector machin based land cover classification," in *Proceedings of the 8th Annual International Conference, Map India*, 2005.
- [76] F. Deng, S. Guo, R. Zhou, and J. Chen, "Support vector ensemble for incipient fault diagnosis in nuclear plant components," *IEEE Transactions on Automation Science and Engineering*, vol. 14, pp. 1053–1063, 2017.
- [77] M. ali Bagheri, G. A. Montazer, and S. Escalera, "Error correcting output codes for multiclass classification: Application to two image vision problems," in *The 16th CSI International Symposium on Artificial Intelligence and Signal Processing*, 2012.
- [78] S. Escalera, O. Pujol, and P. Radeva, "On the decoding process in ternary error-correcting output codes," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 32, pp. 120–134, 2010.
- [79] K.-H. Liu, Z.-H. Zeng, and V. T. Y. Ng, "A hierarchical ensemble of ecoc for cancer classification based on multi-class microarray data," *Information Sciences*, vol. 349–350, pp. 102–118, 2016.
- [80] S. Özöğür Akyüz, T. Windeatt, and R. Smith, "Pruning of error correcting output codes by optimization of accuracy–diversity trade off," *Machine Learning*, vol. 101, pp. 253–269, 2015.
- [81] K. Sun, H. Kang, and H.-H. Park, "Tagging and classifying facial images in cloud environments based on knn using mapreduce," *Optik*, vol. 126, pp. 3227–3233, 2015.
- [82] Y. Mistry, D. Ingole, and M. Ingole, "Content based image retrieval using hybrid features and various distance metric," *Journal of Electrical Systems and Information Technology*, vol. 5, pp. 874–888, 2018.

- [83] G. Nguyen, S. Dlugolinsky, M. Bobak, V. Tran, A. L. Garcia, I. Heredia, P. Malik, and L. Hluchy, "Machine learning and deep learning frameworks and libraries for large-scale data mining: a survey," *Artificial Intelligence Review*, vol. 52, pp. 77–124, 2019.
- [84] H. M. Fayek, M. Lech, and L. Cavedon, "Evaluating deep learning architectures for speech emotion recognition," *Neural Networks*, vol. 92, pp. 60–68, 2017.
- [85] V. H. Phung and E. J. Rhee, "A deep learning approach for classification of cloud image patches on small datasets," *J. Inf. Commun. Conver. Eng.*, vol. 16, pp. 173–178, 2018.
- [86] H. Snyder, "Literature review as a research methodology: An overview and guidelines," *Journal of Business Research*, vol. 104, pp. 333–339, 2019.
- [87] S. Khangura, K. Konnyu, R. Cushman, J. Grimshaw, and D. Moher, "Evidence summaries: the evolution of a rapid review approach," *Systematic Reviews*, vol. 1, pp. 1–9, 2012.
- [88] J. Geusebroek, G. Burghouts, and A. Smeulders, "The amsterdam library of object images," *International Journal of Computer Vision*, vol. 61, 2005.
- [89] F. Li, R. Fergus, and P. Perona, "Learning generative visual models from few training examples: an incremental bayesian approach tested on 101 object categories," *Computer Vision and Image Understanding*, vol. 106, 2007.
- [90] G. Griffin, A. Holub, and P. Perona, "Caltech-256 object category dataset (technical report 7694)," *California Institute of Technology*, 2007.
- [91] L. Li, F. Lin, W. Jun, S. Mu-xin, and L. Sheng-lan, "Exploiting global and local features for image retrieval," *J. Cent. South Univ.*, vol. 25, pp. 259–276, 2018.
- [92] R. Wang, K. Ding, J. Yang, and L. Xue, "A novel method for image classification based on bag of visual words," *Journal of Visual Communication and Image Representation*, vol. 40, 2016.
- [93] S. Aslan, C. B. Akgül, B. Sankur, and E. T. Tunalı, "Exploring visual dictionaries: A model driven perspective," *Journal of Visual Communication and Image Representation*, vol. 49, pp. 315–331, 2017.
- [94] J. Hou, W.-X. Liu, X. E, Q. Xia, and N.-M. Qi, "An experimental study on the universality of visual vocabularies," *J. Vis. Commun. Image R. journal*, vol. 24, pp. 1204–1211, 2013.
- [95] H. J. Escalante, V. Ponce-López, S. Escalera, X. Baró, A. Morales-Reyes, and J. Martínez-Carranza, "Evolving weighting schemes for the bag of visual words," *Neural Computing and Applications*, vol. 28, pp. 925–939, 2017.
- [96] K. T. Ahmed, Shahida, and M. A. Iqbal, "Content based image retrieval using image features information fusion," *Information Fusion*, vol. 51, pp. 76–99, 2019.
- [97] T. Tahir, G. Rasool, and C. Gencel, "A systematic literature review on software measurement programs," *Information and Software Technology*, vol. 73, pp. 101–121, 2016.

- [98] M. Goyal and S. Kumar, "Improving the initial centroids of k-means clustering algorithm to generalize its applicability," *J. Inst. Eng. India Ser. B*, vol. 95, pp. 345–350, 2014.
- [99] R. J. Freund, W. J. Wilson, and D. L. Mohr, *Statistical Methods (Third Edition)*. Elsevier, 2010.
- [100] N. Settouti, M. E. A. Bechar, and M. A. Chikh, "Statistical comparisons of the top 10 algorithms in data mining for classification task," *International Journal of Interactive Multimedia and Artificial Intelligence*, vol. 4, pp. 46–51, 2016.
- [101] J. Demsar, "Statistical comparisons of classifiers over multiple data sets," *Journal of Machine Learning Research*, vol. 7, pp. 1–30, 2006.
- [102] Z. Xu, J. Liu, X. Luo, Z. Yang, Y. Zhang, P. Yuan, Y. Tang, and T. Zhang, "Software defect prediction based on kernel pca and weighted extreme learning machine," *Information and Software Technology*, vol. 106, pp. 182–200, 2019.
- [103] I. Brown and C. Mues, "An experimental comparison of classification algorithms for imbalanced credit scoring data sets," *Expert Systems with Applications*, vol. 39, pp. 3446–3453, 2012.
- [104] M. Ballings, D. V. den Poel, N. Hespeels, and R. Gryp, "Evaluating multiple classifiers for stock price direction prediction," *Expert Systems with Applications*, vol. 42, pp. 7046–7056, 2015.
- [105] A. Kaur and I. Kaur, "An empirical evaluation of classification algorithms for fault prediction in open source projects," *Journal of King Saud University*, pp. 1–16, 2016.
- [106] P. Nemenyi, "Distribution-free multiple comparisons," *Ph.D. Thesis Princeton University*, 1963.
- [107] H. Zhang, A. C. Berg, M. Maire, and J. Malik, "SVM-KNN: Discriminative nearest neighbor classification for visual category recognition," in *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR'06)*, 2006, pp. 1–8.
- [108] H. Tang, H. Liu, W. Xiao, and N. Sebe, "When dictionary learning meets deep learning: Deep dictionary learning and coding network for image recognition with limited data," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 32, pp. 1–13, 2021.
- [109] J. Shyh-Yaw and S. Chung-Yen, "A Novel lightweight Convolutional Neural Network, ExquisiteNetV2," 2021, arXiv:2105.09008.
- [110] Z. Shi-Yao and S. Chung-Yen, "Efficient convolutional neural network for pest recognition - exquisitenet," in *2nd IEEE Eurasia Conference on IOT, Communication and Engineering*, 2020, pp. 216–219.
- [111] S. S. Basha, S. K. Vinakota, V. Pulabaigari, S. Mukherjee, and S. R. Dubey, "Autotune: Automatically tuning convolutional neural networks for improved transfer learning," *Neural Networks*, vol. 133, pp. 112–122, 2021.

- [112] R. Tapu, B. Mocanu, A. Bursuc, and T. Zaharia, "A smartphone-based obstacle detection and classification system for assisting visually impaired people," in *IEEE International Conference on Computer Vision Workshops*, 2013, pp. 444–451.
- [113] T. Li, C. Zhang, and M. Ogihara, "A comparative study of feature selection and multiclass classification methods for tissue classification based on gene expression," *Bioinformatics*, vol. 20, pp. 2429–2437, 2004.