

- [8] A. Koschan, "A comparative study on color edge detection." In *Proceedings of the 2nd Asian Conference on Computer Vision*, vol. 3, pp. 574-578. 1995.
- [9] R. M. Haralick, "Digital step edges from zero-crossings of second directional derivatives," *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 6, pp. 58-68, January 1984.
- [10] P. Getreuer, "Linear Methods for Image Interpolation." http://www.ipol.im/pub/ algo/g_linear_methods_for_image_interpolation/, IPOL 2011. ISSN: 2105-1232, DOI: 11
- [11] P. Trahanias and A.N. Venetsanopoulos, "Color edge detection using vector statistics," *IEEE Trans. on Image Processing*, vol. 2, pp. 259-264, April 1993.
- [12] T.Kanade, "Image understanding research at CMU," in *Proc. Image Understanding Workshop*, vol.II, pp.32-40, 1987.
- [13] A. Cumani, "Edge Detection in Multispectral Images," *CVGIP: Graphical Models and Image Processing*. Vol. 53, pp. 40-51, 1991.
- [14] W. Alshatti and P. Lambert, "Using eigenvectors of a vector field for deriving a second directional derivative operator for color images," in *Proc. 5th Int. Conf. CAIP'93*, pp.149- 156, 1993.
- [15] H. A. David, *Order Statistics*, Wiley, New York, 1980.
- [16] R. J. Feechs and G. R. Arce, "Multidimensional morphologic edge detection," in *Conf. Visual Communication and Image Processing, Proc. SPIE 845*, 285-292, 1987.
- [17] J. S. J. Lee, R. M. Haralick and L. G. Shapiro, "Morphologic edge detection," *IEEE J. Robot Automat.* RA-3(2), 142-156 ,1987.
- [18] A. Koschan and M. Abidi, "Detection and classification of edges in color images", *Signal Processing Magazine, Special Issue on Color Image Processing*, 22: 67-73, 2005.
- [19] K.M.Singh, P.K.Bora, "Adaptive Vector Median Filter for Removal of Impulse Noise from Color Images", *JOURNAL OF ELECTRICAL & ELECTRONICS ENGINEERING*, Vol: 4, No: 1, pp.1063-1072, 2004.
- [20] R. C. Hardie, K. E. Barner, "Rank-conditioned rank selection filters for signal restoration" *IEEE Trans. Image Processing*, Vol: 2, No: 2, pp. 192-206, 1994.
- [21] Alparone L., Baronti S., Carlà R., "Two-dimensional rank-conditioned median filter," *IEEE Trans. on Circuits and Systems – II: Analog and Digital Signal Processing*, Vol: 42, No: 2, 1995.
- [22] S.J. Ko, Y.H. Lee, "Center-weighted median filters and their applications to image enhancement," *IEEE Trans. Circuits and Syst.*, Vol: 38, pp. 984-993, 1991.
- [23] D.R.K. Brownrigg, "The Weighted median filter," *Comm. ACM*, Vol: 27, pp. 807-818, 1984.
- [24] S.Y. Zhu, K. N. Plataniotis, and A. N. Venetsanopoulos, "Comprehensive analysis of edge detection in color image processing," *Opt. Eng.*, vol. 38, no. 4, pp. 612-625, April 1999.
- [25] A. Belmamoun, M. E. Hassouni and A. Hammouch, "On selection and combination of relevant color components for edge detection", *Conference on Electronics, Telecommunications and Computers – CETC 2013*, pp. 764 – 771, 2014.
- [26] Evans, Adrian N., and Xin U. Liu. "A morphological gradient approach to color edge detection." *Image Processing, IEEE Transactions on* 15, no. 6, pp. 1454-1463, 2006.
- [27] M. I. Kanta, S. Nag, and S. K. Bandyopadhyay. "A Novel Edge Detection Algorithm for Digital Mammogram" *International Journal of Information and Communication Technology Research* 2, no. 2, 2012.
- [28] Adak, Chandranath. "Gabor filter and rough clustering based edge detection." In *Human Computer Interactions (ICHCI), 2013 International Conference on*, pp. 1-5, IEEE, 2013.
- [29] Trahanias, E.Panos, and A. N. Venetsanopoulos. "Vector order statistics operators as color edge detectors." *Systems, Man, and Cybernetics, Part B: Cybernetics, IEEE Transactions on* 26, no. 1 pp.135-143, 1996.
- [30] N. Kaur , Rishma, N. Dhillon, "A novel approach to edge detection in color images by Genetic Algorithm and Artificial Neural Network", *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)*, Volume .3 ,Issue 1, January 2014.
- [31] F. Russo and A. Lazzari, "Color edge detection in presence of Gaussian noise using nonlinear prefiltering", *Instrumentation and Measurement, IEEE Transactions on*, 54(1), 352- 358, 2005.
- [32] J.Fan, W. G.Aref, M. S. Hacid, & A. K. Elmagarmid, "An improved automatic isotropic color edge detection technique". *Pattern Recognition Letters*, 22(13), 1419-1429, 2001.
- [33] J.Chu, J. Miao, G. Zhang and L. Wang, "Edge and corner detection by color variants", *Optics & Laser Technology*, 45, pp.756-762, 2013.

- [34] B. Bouda, L. Masmoudi, & D. Aboutajdine, "CVVEFM: Cubical voxels and virtual electric field model for edge detection in color images", *Signal Processing*, 88(4), 905-915, 2008.
- [35] S.Deng, Y. Tian, X. Hu, P. Wei and M.Qin, "Application of new advanced CNN structure with adaptive thresholds to color edge detection", *Communications in Nonlinear Science and Numerical Simulation*, 17(4), 1637-1648, 2012.
- [36] W. Y. Ma & B.S.Manjunath, "Edge Flow: A technique for boundary detection and image segmentation", *Image Processing, IEEE Transactions*, Volume.9, Issue.8, pp.1375 – 1388, August 2000.
- [37] W Jianwei, "An improved method of color image edge detection based on one order gradient operator", *International Journal of Hybrid Information Technology*, Vol.6, No.5, pp.151-162, 2013.
- [38] G wanggil Jeon, "Edge detection in different color spaces", *Proceedings, The 1st International Conference on Advanced Computer and Information Technology, ASTL Vol. 22*, pp. 113 - 116, 2013.
- [39] M. D. Almadhoun, "Improving and measuring color edge detection algorithm in RGB color space", *International Journal of Digital Information and Wireless Communications (IJDWC) Vol.3*, issue (1), pp.19-24, 2013.
- [40] K.Sandeep and A.N.Rajagopalan, "Human face detection in cluttered color images using skin color and edge information", In *ICVGIP*, 2002.
- [41] A.Sparavigna, "Color dipole moments for edge detection." *arXiv preprint arXiv: 0904.0962*, (2009).
- [42] F Russo and A Lazzani, "Color edge detection in presence of Gaussian Noise using Nonlinear prefiltering", *IEEE transactions on Instrumentation and Measurement*, Vol.54, no.1,pp.352- 358, February 2005
- [43] S.C. Pei and Y. Z. Hsiao, "Color image edge detection using Quaternion Quantized localized phase", 18th European Signal Processing Conference, pp.1766-1770, August 2010.
- [44] A Brook, R Kimmel and N. A. Sochen, "Variational Restoration and Edge Detection for Color Images", *Journal of Mathematical Imaging and Vision* Vol.18, pp. 247–268, 2003.
- [45] Ch.Theoharatos, G.Economou and S.Fotopoulos, "Color edge detection using the minimal spanning tree", *Pattern Recognition*, Vol.38 pp.603 – 606, September 2005.
- [46] H.I. Turhan, G. Sahin and A. M. Erkmen, "Comparing color edge detection techniques".
- [47] B. Misra and P.Wilson, "Color edge detection hardware based on geometric algebra" 3rd European Conference on Visual Media Production, pp.115-121, November 2006.
- [48] K.L. Chung, W.J. yang & W.M. Yan and C.C. Wang, "Demosaiicing of color filter array captured images using gradient edge detection masks and adaptive heterogeneity- Projection" *IEEE Transaction on Image Processing*, Vol. 17, No. 12, pp. 2356- 2367, December 2008.
- [49] B. Neupane, Z. Aung, and W.L. Woon, "A new image edge detection method using quality- based clustering."
- [50] M. Bollmann , T. Hempel and B. Mertsching, "Improved Edge Detection by the Evaluation of Color Contrast Information" 1996.
- [51] P.Dollár, and C. L. Zitnick. "Structured forests for fast edge detection." In *Computer Vision (ICCV), 2013 IEEE International Conference on*, pp. 1841-1848. IEEE, 2013.
- [52] A. Koschan, "A Comparative Study on Color Edge Detection", *Proceedings 2nd Asian Conference on Computer Vision ACCV'95*, vol. 3, pp. 574-578, December 1995.
- [53] T.H.H. Lee and T.R.Taipei, "Edge detection analysis", *Graduate Institute of Communication Engineering, National Taiwan University, Taipei, Taiwan, ROC*, 2007.
- [54] J.V.Weijer, T.Gevers and J.M. Geusebroek, "Color Edge Detection by Photometric Quasi-invariants" *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 27 (4), pp.1520-1526, April 2005.
- [55] S.C. Dass and V. N. Nair, "Edge detection, spatial smoothing and image reconstruction with partially observed multivariate data " *Journal of the American Statistical Association* Vol. 98, Issue 461,pp.77-89,2003.
- [56] A. Koschan, M. Abidi, "Detection and Classification of Edges in Color Images: A Review of Vector-valued Techniques," *IEEE Signal Processing Magazine*, pp. 64-73, January 2005.
- [57] J Mairal, M Leordeanu, Francis Bach, Martial Hebert and Jean Ponce, "Discriminative sparse image models for class specific edge detection & image interpretation", *Computer Vision – ECCV 2008, Lecture Notes in Computer Science*, Vol. 5304, pp. 43-56, 2008.
- [58] D.R.Martin, C.C.Fowlkes and Malik, "Learning to detect natural image boundaries using local brightness, color & texture cues" *IEEE Transactions on Pattern Analysis And Machine Intelligence*, Vol. 26, no. 1,pp.1-20, January 2004.

- [59] E.Nadernejad, S.Sharifzadeh, H.Hassanpur, "Edge detection techniques: Evaluation and Comparison" Applied Mathematical sciences, Vol. 2, no. 31, pp.1507 - 1520, 2008.
- [60] M. A. Ruxon & C. Tomasi, "Color edge detection with the compass operator", IEEEConference on Computer Vision and Pattern Recognition '99, Vol. 2, pp.160-166, June 1999.
- [61] Y. Hwang, I. Kweon & J.S.Kim, "Color edge detection using the Skellam distribution as a sensor noise model", SICE Annual Conference, pp.1972-1979, September 2007.
- [62] R. Ajmera and N. Saxena, "Face detection in digital images using color spaces & edge detection techniques", International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 3, Issue 6,pp.718-725, June 2013.
- [63] K.N.Plataniotis, "Comprehensive analysis of edge detection in color image processing", Optical Engineering, Vol. 38, No. 4, pp.612-62, April 1999.
- [64] K.Yang, S.Gao, C. Li & Y. Li, "Efficient color boundary detection with color-opponent mechanisms", IEEE Conference on Computer Vision and Pattern Recognition, pp.2810- 2817, June 2013.
- [65] A.Goshtasby and H.L. Shyu. "Edge detection by curve fitting. " *Image and Vision Computing* 13, no. 3, pp.169-177, 1995.
- [66] C.E. Moxey, S.J.Sangwine, T.A. Ell, "Hypercomplex Correlation Techniques for Vector Images ", IEEE Transaction on Signal Processing, vol.no.51, no.7, pp.1941-1953,2003.
- [67] Pei, Soo-Chang, and Yu-Zhe Hsiao. "Colour image edge detection using quaternion quantized localized phase." In *Signal Processing Conference, 2010 18th European*, pp. 1766-1770. IEEE, 2010.
- [68] F.Lang, J.Zhou, B.Yan, E.song, F.Jhong, "Quaternion and color Image Edge Detection", Computer science, Vol.34, no.11, pp.221-216, 2007.
- [69]L.Hua, H.Feng, K.Yu, Y.Liu, L.Ding, and J.Gu, "Edge Detectionfor Color Medical Image Based on Quaternion and SOFM-NN,"Int.J.of Advancements in Computing Technology, Vol.5, No.8, pp. 870-878, 2013
- [70] S.J.Sangwine, "Colour image edge detector based on quaternion convolution." *Electronics Letters* 34.10, pp. 969-971,1998
- [71] Xu, Jiangyan, L Ye, and W Luo. "Color edge detection using multiscale quaternion convolution." *International Journal of Imaging Systems and Technology* 20.4, pp. 354-358, 2010.
- [72] Evans, Carolyn J., S. J. Sangwine, and T. A. Ell. "Colour-sensitive edge detection using hypercomplex filters." *Signal Processing Conference, 2000 10th European*. IEEE, 2000.
- [73] Pei, Soo-Chang, and Yu-Zhe Hsiao. "Colour image edge detection using quaternion quantized localized phase." *Signal Processing Conference, 2010 18th European*. IEEE, 2010.