# Bibliography


[AHH96] H. Austermeier, G. Hartmann, and R. Hilker. Color-calibration of a robot vision system using self-organizing feature maps. In *Artificial Neural Networks ICANN'96*, pages 257–262, 1996.

[Bar95] K. Barnard. Computational colour constancy: Taking theory into practice. Master's thesis, School of Computer Science, Simon Fraser University, Canada, 1995.

[Bar98] K. Barnard. Modeling scene illumination colour for computer vision and image reproduction: A survey of computational approaches. Technical report, School of Computer Science, Simon Fraser University, Canada, December 1998.

[Bar99a] K. Barnard. Color constancy with fluorescent surface. In *Proc. IS&T/SID* $7^{th}$ *Color Imaging Conference: Color Science, Systems and Applications*, pages 257–261, 1999.

[Bar99b] K. Barnard. *Practical Colour Constancy*. PhD thesis, School of Computer Science, Simon Fraser University, Canada, 1999.

[Bar00] K. Barnard. Improvements to gamut mapping colour constancy algorithms. In *ECCV'2000*, volume 1, pages 390–402, 2000.

[BCF02] K. Barnard, V. Cardei, and B. Funt. A comparison of computational colour constancy algorithms: Part one: Methodology and experiments with synthesized data. *IEEE Trans. on Image Processing*, 11(9):972–983, September 2002.

[BCGM98] S. Belongie, C. Carson, H. Greenspan, and J. Malik. Color- and texture-based image segmentation using EM and its application to content-based image retrieval. In $6^{th}$ *Int. Conf. on Computer Vision, 1998*, pages 675–682, January 1998.

[BCS98] M. Borsotti, P. Campadelli, and R. Schettini. Quantitative evaluation of color image segmentation results. *Pattern Recognition Letters*, 19:741–747, 1998.

[BD98] S.D. Buluswar and B.A. Draper. Color reproduction in outdoor images. In $6^{th}$ *Int. Conf. on Computer Vision*, pages 171–177, 1998.

[BDRH95] S. Buluswar, B.A. Draper, E.M. Riseman, and A.R. Harson. Trichromatic model of daylight variation. Technical Report UM-CS-1995-012, Computer Science Department, University of Massachusetts, 1995.

[Bez81] J.C. Bezdek. *Pattern Recognition with Fuzzy Objective Function Algorithms*. Plenum Press, New York, 1981.

[BF97] D.H. Brainard and W.T. Freeman. Bayesian color constancy. *J. Opt. Soc. Am. A*, 14(7):1393–1411, 1997.

[BF98] K. Barnard and B.V. Funt. Experiments in sensor sharpening for color constancy. In *Proc. IS&T/SID* $6^{th}$ *Color Imaging Conference: Color Science, Systems and Applications*, pages 43–46, 1998.

[BF99] K. Barnard and B.V. Funt. Camera calibration for color vision research. In *SPIE Conference on Electronic Imaging Proc. Human Vision and Electronic Imaging IV*, volume 3644, pages 576–585, January 1999.

[BFC00] K. Barnard, B.V. Funt, and V. Cardei. A comparison of computational colour constancy algorithms: Part one: Theory and experiments with synthetic data, 2000.

[BFF96] K. Barnard, G.D. Finlayson, and B.V. Funt. Color constancy for scenes with varying illumination. In *Proc. European Conf.Computer Vision*, volume II, pages 3–15, 1996.

[BFF97] K. Barnard, G.D. Finlayson, and B.V. Funt. Color constancy for scenes with varying illumination. *Computer Vision and Image Understanding*, 65(2):311–321, February 1997.

[BFM00] K. Barnard, B.V. Funt, and L. Martin. Colour constancy meets colour indexing. Technical report, School of Computer Science, Simon Fraser University, Canada, October 2000.

[BFMC00] K. Barnard, B.V. Funt, L. Martin, and A. Coath. A comparison of computational colour constancy algorithms: Part two: Experiments on image data, 2000.

[Bha43] A. Bhattacharyya. On a measure of divergence between two statistical populations defined by their probability distributions. *Bull. Calcutta Math. Soc.*, 35:99–110, 1943.

[BHK97] P.N. Belhumeur, J.P. Hespanha, and D.J. Kriegman. Eigenfaces vs. Fisherfaces: Recognition using class-specific linear projection. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 19(7):711–720, July 1997.

[BK98] P.N. Belhumeur and D.J. Kriegman. What is the set of images of an object under all possible illumination conditions? *Int. J. Computer Vision*, 28(3):245–260, July 1998.

[Bla85] A. Blake. Boundary conditions for lightness computation in mondrian world. *Computer Vision, Graphics, and Image Processing*, 32:314–327, 1985.

[BLL96] R. Bajcsy, S.W. Lee, and A. Leonardis. Detection of diffuse and specular interface reflections and interreflections by color image segmentation. *Int. Journal of Computer Vision*, 17(3):241–272, March 1996.

[BMCF02] K. Barnard, L. Martin, A. Coath, and B. Funt. A comparison of computational colour constancy algorithms: Part two: Experiments with image data. *IEEE Trans. on Image Processing*, 11(9):985–996, September 2002.

[BMFC02] K. Barnard, L. Martin, B.V. Funt, and A. Coath. A data for colour research. *Color Research and Application*, 27(3):140–147, 2002.

[BRM96] M. Barni, S. Rossi, and A. Mecocci. A fuzzy expert system for low level image segmentation. In *Proc. of the* $8^{th}$ *European Signal Processing Conference (EUSIPCO'96)*, volume III, pages 1725–1728, 1996.

[Buc80] G. Buchsbaum. A spatial processor model for object colour perception. *Journal of Franklin Institute*, 310:1–26, 1980.

[BW86] D.A. Brainard and B.A. Wandell. Analysis of the retinex theory of color vision. *J. Opt. Soc. Am. A*, 3:1651–1661, 1986.

[CB98] R. Chellappa and R. Bagdazian. Fourier coding of image boundaries. *IEEE Trans. on Image Processing*, 7(11):1524–1533, November 1998.

[CBGM02] C. Carson, S. Belongie, H. Greenspan, and J. Malik. Blobworld: Image segmentation using expectation-maximization and its application to image querying. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 24(8):1026–1038, August 2002.

[CCLR01] T.H. Cormen, S. Clifford, C.E. Leiserson, and R.L. Rivest. *Introduction to Algorithms*. The MIT Press, McGraw–Hill Book Company, 2001.

[CdH98] M. Celenk and M.U. de Haag. Optimal thresholding for color images. In *Proc. of the SPIE - The Int'l Soc. for Optical Eng., Nonlinear Image Processing*, volume IX, pages 250–259, Jan 1998.

[Cel97] M. Celenk. Hierarchical color clustering for segmentation of textured images. In *Proc. of the* $29^{th}$ *Southeastern Symposium on System Theory*, pages 483–487, March 1997.

[CF99] V. Cardei and B.V. Funt. Committee-based color constancy. In *Proc. IS&T/SID Seventh Color Imaging Conference: Color Science, Systems and Applications*, pages 311–313, November 1999.

[CFB98] V. Cardei, B.V. Funt, and K. Barnard. Adaptive illuminant estimation using neural networks. In *Int. Conf. on Artificial Neural Networks*, pages 749–754, September 1998.

[CFB99] V. Cardei, B.V. Funt, and K. Barnard. White point estimation for uncalibrated images. In *Proc. IS&T/SID Seventh Color Imaging Conference: Color Science, Systems and Applications*, pages 97–100, November 1999.

[CFF95] S.S. Chatterjee, G.D. Finlayson, and B.V. Funt. Color angle invariants for object recognition. In *Proc.* $3^{rd}$ *IS&T/SID Color Imaging Conference*, pages 44–47, 1995.

[CGA97] B. Cramariuc, M. Gabbouj, and J. Astola. Clustering based region growing algorithm for color image segmentation. In *Proc. of the* $13^{th}$ *Int'l Conf. on Digital Signal Processing*, volume 2, pages 857–860, July 1997.

[CGVLS00] J. Climent, A. Grau, J. Vergés-Llahí, and A. Sanfeliu. Color image segmentation based on graph minimisation, October 2000. Revista Electrónica de Visión por Computador (REVC) in Spanish.

[CH95] P.R. Chang and T.H. Hsieh. Constrained nonlinear optimization approaches to color-signal separation. *IEEE Trans. on Image Processing*, 4(1):81–94, January 1995.

[Cha92] M. Chapron. A new chromatic edge detector used for color image segmentation. In *Proc. 11th Int. Conf. on Pattern Recognition*, volume 3, pages 311–314, 1992.

[Cha97] M. Chapron. A chromatic contour detector based on abrupt change techniques. In *Proc. of Int. Conf. on Image Processing, ICIP'97*, volume III, pages 18–21, October 1997.

[CHY92a] P.R. Chang, T.H. Hsieh, and B.F. Yeh. A color constancy model for advanced television cameras. *IEEE Trans. on Broadcasting*, 38(2):90–97, June 1992.

[CHY92b] P.R. Chang, T.H. Hsieh, and B.F. Yeh. A color constancy model for hdtv camera system. In *Proc. International Symposium on Circuits and Systems*, volume 4, pages 1680–1684, 1992.

[CJSW01] H.D. Cheng, X.H. Jiang, Y. Sun, and J. Wang. Color image segmentation: Advances and prospects. *Pattern Recognition*, 34:2259–2281, 2001.

[CL97] P. Colantoni and B. Laget. Color image segmentation using region adjacency graphs. In *Proc. of the* $6^{th}$ *Int'l Conf. on Image Processing and Its Applications*, volume 2, pages 698–702, July 1997.

[CM97] D. Comaniciu and P. Meer. Robust analysis of feature spaces: Color image segmentation. In *Proc. of CVPR97*, volume 1, pages 750–755, 1997.

[CM99] D. Comaniciu and P. Meer. Mean shift analysis and applications. In *Proc. IEEE Int. Conf. on Computer Vision*, volume 1, pages 1197–1203, 1999.

[CM02] D. Comaniciu and P. Meer. Mean shift: A robust approach toward feature space analysis. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 24(5):603 –619, May 2002.

[CMS97] P. Campadelli, D. Medici, and R. Schettini. Color image segmentation using Hopfield networks. *Image and Vision Computing Image*, 15(3):161–166, March 1997.

[Coh64] J. Cohen. Dependency of the spectral reflectance curves of Munsell color chip. *Psychon. Science*, 1:369–370, August 1964.

[CPP00] W.H. Cho, S.Y. Park, and J.H. Park. Segmentation of color image using deterministic annealing EM. In *Proc.* $15^{th}$ *International Conference on Pattern Recognition*, volume 3, pages 642–645, September 2000.

[CRM03] D. Comaniciu, V. Ramesh, and P. Meer. Kernel-based object tracking. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 25(5):564–577, May 2003.

[CST94] M.M. Chang, I. Sezan, and M. Tekalp. Adaptive Bayesian segmentation of color images. *Journal of Electronic Imaging*, 3(4):404–414, October 1994.

[CT81] R.L. Cook and K.E. Torrance. A reflectance model for computer graphics. *Computer Graphics*, 15(3):307–316, 1981.

[Cum91] A. Cumani. Edge detection in multispectral images. *Computer Vision, Graphics and Image Processing: Graphical Models and Image Processing*, 53(1):40–51, 1991.

[CW02] Y. Chen and J.Z. Wang. A region-based fuzzy feature matching approach to content-based image retrieval. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 24(9):1252–1267, September 2002.

[CW04] H.C. Chen and S.J. Wang. The use of visible color difference in the quantitative evaluation of color image segmentation. In *Proc. IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP'04*, volume 3, pages 593–596, May 2004.

[DF00] M.S. Drew and G.D. Finlayson. Spectral sharpening with positivity. *J. Opt. Soc. Am. A*, 17(8):1361–1370, 2000.

[DI93] M. D´Zmura and G. Inverson. Color constancy: I. basic theory of two-stage linear recovery of spectral descriptions for lights and surfaces. *J. Opt. Soc. Am. A*, 10:2148–2165, 1993.

[DL82] D.C. Dowson and B.V. Landau. The Fréchet distance between multivariate normal distributions. *Journal of Multivariate Analysis*, 12:450–455, 1982.

[DLR77] A. Dempster, N. Laird, and D. Rubin. Maximum likelihood estimation from incomplete data via the EM algorithm. *J. Royal Statistical Soc. B*, 39:1–38, 1977.

[DM97] P.E. Debevec and J. Malik. Recovering high dynamic range radiance maps from photographs. In *Proc. of SIGGRAPH'97*, pages 364–378, 1997.

[DMS99] Y. Deng, B.S. Manjunath, and H. Shin. Color image segmentation. In *Proc. of 1999 Int'l Conf. on Computer Vision and Pattern Recognition, CVPR'99*, pages 2446–2451, June 1999.

[DWL98] M.S. Drew, J. Wei, and Z.N. Li. Illuminant-invariant color object recognition via compressed chromaticity histograms of color-channel-normalized images. In *Proc.* $6^{th}$ *International Conference on Computer Vision*, pages 533–540, 1998.

[DWL99] M.S. Drew, J. Wei, and Z.N. Li. Illuminant-invariant image retrieval and video segmentation. *Pattern Recognition*, 32:1369–1388, 1999.

[Els97] U. Elsner. Graph partitioning: A survey. Technical Report 393/97-27, Numerische Simulation auf Massiv Parallelen Rechnern, Technische Universität Chemnitz, December 1997.

[Fai97] M.D. Fairchild. *Color Appearance Models*. Addison-Wesley, 1997.

[FBM98] B.V. Funt, K. Barnard, and L. Martin. Is colour constancy good enough? In *Proc.* $5^{th}$ *European Conference Computer Vision*, pages 445–459, June 1998.

[FC84] T.W. Chen F.H. Cheng, W.H. Hsu. Recovering colors in an image with chromatic illuminant. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 6:102–105, June 1984.

[FCB99] B.V. Funt, V. Cardei, and K. Barnard. Method of estimating chromaticity of illumination using neural networks, 1999. U.S. Patent 5907629.

[FCF96] G.D. Finlayson, S.S. Chatterjee, and B.V. Funt. Color angular indexing. In *Proc. Int. European Conference on Computer Vision*, volume II, pages 16–27, 1996.

[FD88] B.V. Funt and M.S. Drew. Color constancy computation in near mondrian scenes using a finite dimensional linear model. In *Proc. IEEE Comp. Vision and Pattern Recognition Conference*, pages 544–549, June 1988.

[FDB92] B.V. Funt, M.S. Drew, and M. Brockington. Recovering shading from color images. In *Proc.* $2^{nd}$ *European Conference Computer Vision*, pages 124–132, 1992.

[FDF93a] G.D. Finlayson, M.S. Drew, and B.V. Funt. Diagonal transform suffice for color constancy. In *Proc. Int. Conf. Computer Vision*, pages 164–171, 1993.

[FDF93b] G.D. Finlayson, M.S. Drew, and B.V. Funt. Enhancing Von Kries adaptation via sensor transformation. In *Human Vision, Visual Processing, and Digital Display IV*, volume 1913, pages 473–484, 1993.

[FDF94a] G.D. Finlayson, M.S. Drew, and B.V. Funt. Color constancy: Generalized diagonal transform suffice. *J. Opt. Soc. Am. A*, 11(11):3011–3020, 1994.

[FDF94b] G.D. Finlayson, M.S. Drew, and B.V. Funt. Spectral sharpening: Sensor transformations for improved color constancy. *J. Opt. Soc. Am. A*, 11(5):1553–1563, 1994.

[FDH91] B.V. Funt, M.S. Drew, and J. Ho. Color constancy from mutual reflection. *Int. J. Computer Vision*, 6:5–24, June 1991.

[FF94] G.D. Finlayson and B.V. Funt. Color constancy with shadows. *Perception, Special Issue on the* $17^{th}$ *European Conference on Visual Perception*, 23:89–90, 1994.

[FF95] B.V. Funt and G.D. Finlayson. Color constant color indexing. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 17(5):522–529, May 1995.

[FF96] G.D. Finlayson and B.V. Funt. Color coefficient channels: Derivation and relationship to others theoretical studies. *Color Res. Applicat.*, 21(2):87–95, 1996.

[FFB95] G.D. Finlayson, B.V. Funt, and K. Barnard. Color constancy under varying illumination. In *Proc.* $5^{th}$ *Int. Conf. Computer Vision*, pages 720–725, 1995.

[FH88] B.V. Funt and J. Ho. Color from black and white. In *Proc.* $2^{nd}$ *IEEE Int. Conf. Computer Vision*, pages 2–8, December 1988.

[FH97] G.D. Finlayson and S.D. Hordley. Selection for gamut mapping color constancy. In *Proc.* $8^{th}$ *Brit. Machine Vision Conf. Computer Vision*, volume 2, pages 630–639, September 1997.

[FH98a] P.F. Felzenszwalb and D.P. Huttenlocher. Image segmentation using local variation. In *Proc. IEEE Comp. Soc. Conf. on Computer Vision and Pattern Recognition*, pages 98–104, 1998.

[FH98b] G.D. Finlayson and S.D. Hordley. A theory of selection for gamut mapping color constancy. In *Proc. IEEE Conf. on Computer Vision and Pattern Recognition*, pages 60–65, June 1998.

[FH99] G.D. Finlayson and S.D. Hordley. Selection for gamut mapping colour constancy. *Image and Vision Computing*, 17:597–604, 1999.

[FH00] G.D. Finlayson and S.D. Hordley. Improving gamut mapping color constancy. *IEEE Trans. on Image Processing*, 9(10):1774–1783, October 2000.

[FHH97] G.D. Finlayson, P.M. Hubel, and S.D. Hordley. Color by correlation. In *Proc.* $5^{th}$ *Color Imaging Conference*, pages 6–11, 1997.

[FHH99] G.D. Finlayson, S.D. Hordley, and P.M. Hubel. Colour by correlation: A simple unifying theory of colour constancy. In *Proc. IEEE Int. Conf. on Computer Vision*, pages 835–842, 1999.

[FHH01] G.D. Finlayson, S.D. Hordley, and P.M. Hubel. Colour by correlation: A simple, unifying framework for colour constancy. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 23(11):1209–1221, November 2001.

[Fin95a] G.D. Finlayson. *Coefficient Color Constancy*. PhD thesis, School of Computer Science, Simon Fraser University,Vancouver, Canada, April 1995.

[Fin95b] G.D. Finlayson. Color constancy in diagonal chromaticity space. In *Proc. Int. Conf. Computer Visio*, pages 218–223, 1995.

[Fin96] G.D. Finlayson. Color in perspective. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 18(10):1034–1038, October 1996.

[Fin98] G.D. Finlayson. Colour and reflectance, 1998.

[Fin00] G.D. Finlayson. Computational colour constancy. In *Proc.* $15^{th}$ *Int. Conf. on Pattern Recognition*, volume 1, pages 191–196, September 2000.

[FJ02] M.A.F. Figueiredo and A.K. Jain. Unsupervised learning of finite mixture models. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 24(3):381–396, March 2002.

[Fja98] P.O. Fjaellstroem. Algorithms for graph partitioning: A survey. *Linköping Electronic Articles in Computer and Information Science*, 3(10), 1998.

[FLLP00] H.C. Fu, P.S. Lai, R.S. Lou, and H.T. Pao. Face detection and eye localization by neural network based color segmentation. In *Proceedings of the 2000 IEEE Signal Processing Society Workshop, Neural Networks for Signal Processing X, 2000*, volume 2, pages 507–516, 2000.

[FM81] K.S. Fu and J.K. Mui. A survey on image segmentation. *Pattern Recognition*, 13:3–16, 1981.

[For90] D.A. Forsyth. A novel algorithm for color constancy. *Int. Journal of Computer Vision*, 5(1):5–36, 1990.

[FSC98] G.D. Finlayson, B. Schiele, and J.L. Crowley. Comprehensive colour image normalization. In *Proc. Int. European Conf. on Computer Vision*, pages 460–474, 1998.

[FSN+95] M. Flickner, H. Sawhney, W. Niblack, J. Ashley, B. Dim, Q. Huang, M. Gorkani, J. Hafner, D. Lee, D. Petkovick, D. Steele, and P. Yanker. Query by image and video content: The QBIC system. *Computer*, 28(9):23–32, September 1995.

[Fun94] N. Funakubo. Feature extraction of color texture using neural networks for region segmentation. In *Proc.* $20^{th}$ *Int. Conf. on Industrial Electronics, Control and Instrumentation, IECON '94*, volume 2, pages 852–856, September 1994.

[Fun3] B.V. Funt. Color constancy in digital imagery. In *Proc. Int. Conf. on Image Processing*, volume 1999, pages 55–59, 3.

[GBK99] A.S. Georghiades, P.N. Belhumeur, and D.J. Kriegman. Illumination-based image synthesis: Creating novel images of human faces under differing pose and lighting. In *Proc. IEEE Workshop on Multi-View Modeling and Analysis of Visual Scenes*, pages 47–54, 1999.

[GBK00] A.S. Georghiades, P.N. Belhumeur, and D.J. Kriegman. From few to many: Generative models for recognition under variable pose and illumination. In *Proc. IEEE Int. Conf. Automatic Face and Gesture Recognition*, pages 277–284, 2000.

[GBK01] A.S. Georghiades, P.N. Belhumeur, and D.J. Kriegman. From few to many: Illumination cone models for face recognition under variable lighting and pose. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 23(6):643–660, June 2001.

[GBSG01] J.M. Geusebroek, R. Boomgaard, A. Smeulders, and H. Geerts. Color invariance. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 23(12):1338–1350, December 2001.

[GDR04] H. Greenspan, G. Dvir, and Y. Rubner. Context-dependent segmentation and matching in image database. *Computer Vision and Image Understanding*, 93(2):86–109, 2004.

[GG84] S. Geman and D. Geman. Stochastic relaxation, Gibbs distributions, and the Bayesian restoration of images. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 6(11):721–741, November 1984.

[GGR01] H. Greenspan, J. Goldberger, and L. Riedel. A continuous probabilistic framework for image matching. *Computer Vision and Image Understanding*, 84:384–406, December 2001.

[GGS98] T. Gevers, S. Ghebreab, and A.W.M. Smeulders. Color invariant snakes. In *Proc. of the* $9^{th}$ *British Machine Vision Conference*, volume 2, pages 578–588, September 1998.

[GJ97] A. Gupta and R. Jain. Visual information retrieval. *Comm. ACM*, 40(5):69–79, 1997.

[GJT88] R. Gershon, A.D. Jepson, and J.K. Tsotsos. From [R, G, B] to surface reflectance: Computing color constant descriptors in images. *Perception*, pages 755–758, 1988.

[GKB98] A.S. Georghiades, D.J. Kriegman, and P.N. Belhumeur. Illumination cones for recognition under variable lighting: Faces. In *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, pages 52–59, 1998.

[GL96] J. Garding and T. Lindeberg. Direct computation of shape cues using scale-adapted spatial derivative operators. *Int. Journal of Computer Vision*, 17(2):163–191, February 1996.

[GS96] T. Gevers and A.W.M. Smeulders. A comparative study of several color-models for color image invariant retrieval. In *Proc.* $5^{th}$ *International Workshop on Image Database and Multimedia Search*, pages 17–23, 1996.

[GS97] T. Gevers and A.W.M. Smeulders. Combining region splitting and edge detection through guided Delaunay image subdivision. In *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition*, pages 1021–1026, June 1997.

[GS99] T. Gevers and A.W.M. Smeulders. Color-based object recognition. *Pattern Recognition*, 32:453–464, 1999.

[Gui04] E. Guizzo. Coming soon: Trillion–color tv. *IEEE Spectrum*, 41(8):17–18, August 2004.

[GvL96] G. Golub and C. van Loan. *Matrix Computations, Third Edition*. The Johns Hopkins University Press, London, 1996.

[GYB02] D. Goldman, M. Yang, and N. Bourbakis. A neural network-based segmentation tool for color images. In *Proc.* $14^{th}$ *IEEE International Conference on Tools with Artificial Intelligence, 2002. (ICTAI 2002)*, pages 500–511, November 2002.

[GYM98] G. Guo, S. Yu, and S. Ma. Unsupervised segmentation of color images. In *Proc. of 1998 Int'l Conf. on Image Processing, ICIP'98*, volume III, pages 299–302, October 1998.

[HAD00] T. Hocker, G.L. Aranovich, and M.D. Donohue. Adsorption-energy distribution of heterogeneous surface predicted from projections onto convex sets. submitted to J. Colloid Interface Science, October 2000.

[Han00] C. Hansen. Numerical aspects of deconvolution. Technical report, Dept. of Mathematical Modelling, Technical University of Denmark, June 2000.

[HD95] Q. Huang and B. Dom. Quantitative methods of evaluating image segmentation. In *Proc. Int. Conf. on Image Processing*, volume 3, pages 53–56, October 1995.

[Hea89a] G.E. Healey. Color discrimination by computer. *IEEE Trans. on Systems, Man, and Cybernetics*, 19(6):1613–1617, 1989.

[Hea89b] G.E. Healey. A parallel color algorithm for segmenting images of 3d scenes. In *Proc. DARPA Image Understanding Workshop*, pages 1038–1041, 1989.

[Hea90] G.E. Healey. Using physical color models in 3D machine vision. In *Proc. SPIE Perceiving, Measuring and Using Color*, volume 1250, pages 264–275, 1990.

[Hea92a] G.E. Healey. Color image segmentation. In *Physics-Based Vision Principles and Practice Color*, pages 99–100. Jones and Bartlett Publishers, Boston, 1992.

[Hea92b] G.E. Healey. Segmenting images using normalized color. In *Physics-Based Vision Principles and Practice Color*, pages 166–198. Jones and Bartlett Publishers, Boston, 1992.

[Hel38] H. Helson. Fundamental problems in color vision. i. *J. Exper. Psychol.*, 26:439–477, 1938.

[HF88] J. Ho and B.V. Funt. Color constancy from chromatic aberration. Technical Report TR 88-18, School of Computer Science, Simon Fraser University, Vancouver, Canada, 1988.

[HF04] S. D. Hordley and G. D. Finlayson. Re-evaluating colour constancy algorithms. In *Proc. IEEE the 17th International Conference on Pattern Recognition, ICPR'04*, volume 3, pages 76–79, August 2004.

[HFD90] J. Ho, B.V. Funt, and M.S. Drew. Separating a color signal into illuminant and surface reflectance components: Theory and application. *IEEE Trans. on Pattern Recognition and Machine Intelligence*, 12:966–977, 1990.

[HJC85] T.L. Huntsberger, C.L. Jacobs, and R.L. Cannon. Iterative fuzzy image segmentation. *Pattern Recognition*, 18:131–138, 1985.

[HN99] A.S. Hadi and H. Nyquist. Fréchet distance as a tool for diagnosing multivariate data. *Linear Algebra and its Applications*, 289:183–201, 1999.

[Ho88] J. Ho. Chromatic aberration: A new tool for colour constancy. Master's thesis, School of Computer Science, Simon Fraser University, Vancouver, Canada, 1988.

[Hor74] B.K.P. Horn. Determining lightness from an image. *Computer Vision, Graphics and Image Processing*, 3:277–299, 1974.

[HS85] R.M. Haralick and L.G. Shapiro. Survey on image segmentation techniques. *Computer Vision, Graphics and Image Processing*, 29:100–132, 1985.

[HSD73] R.M. Haralick, K. Shanmugam, and I. Dinstein. Texture feature for image classification. *IEEE Trans. on Systems, Man and Cybernetics*, 3(6):610–621, 1973.

[JD88] A.K. Jain and R. Dubes. *Algorithms for Clustering Data*. Prentice Hall, April 1988.

[JDM00] A.K. Jain, R. Dubes, and J. Mao. Statistical pattern recognition: A review. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 22(1):4–38, January 2000.

[JMW64] D.B. Judd, D.L. MacAdam, and G. Wyszecki. Spectral distribution of typical daylight as a function of correlated color temperature. *J. Opt. Soc. Am.*, 54:1031–1040, August 1964.

[JP98] S. Ji and H.W. Park. Image segmentation of color image based on region coherency. In *Proc. of 1998 Int'l Conf. on Image Processing (ICIP'98)*, volume I, pages 80–83, October 1998.

[Jud40] D.B. Judd. Hue saturation and lightness of surface colors with chromatic illumination. *J. Opt. Soc. Am.*, 30:2–32, 1940.

[Kan98] Y. Kanai. Image segmentation using intensity and color information. In *Proc. SPIE - Visual Communications and Image Processing '98*, pages 709–720, January 1998.

[KAPH94] V. Krasnjuk, D. Arandjelovic, M. Petrovic, and M. Hribsek. A CCD model applied to colour camera characteristics measurement. In *IEE Proc. Int. Broadcasting Convention*, pages 16–20, September 1994.

[KJ03] R. Kondor and T. Jebara. A kernel between sets of vectors. In *Proc. Int. Conf. on Machine Learning, ICML 2003*, February 2003.

[Kli88] G.J. Klinker. A physical approach to color image understanding. Technical Report CMU-CS-88-161, Computer Science Department, Carnegie Mellon University, May 1988.

[Kre89] R. Kress. *Linear Integral Equations*. Springer-Verlag, Berlin, 1989.

[Kri47] E.L. Krinov. Spectral reflectance properties of natural formations. Technical Report TT-439, National Research Council of Canada, 1947.

[KSK88] G.J. Klinker, S.A. Shafer, and T. Kanade. Image segmentation and reflection analysis through color. In *Proc. IUW88*, volume II, pages 838–853, 1988.

[KSK90] G.J. Klinker, S.A. Shafer, and T. Kanade. A physical approach to color image understanding. *Int. Journal of Computer Vision*, 4(1):7–38, 1990.

[KSPA97] S.N. Krjukov, T.O. Semenkova, V.A. Pavlova, and B.I. Arnt. Backpropagation neural network for adaptive color image segmentation. In *Proc. SPIE Applications of Artificial Neural Networks in Image Processing II*, volume 3030, pages 70–74, March 1997.

[Kul68] S. Kullback. *Information Theory and Statistics*. Dover, New York, 1968.

[KWT87] M. Kass, A. Witkin, and D. Terzopoulos. Snakes: Active contour models. *Int. J. of Computer Vision*, 1:321–331, 1987.

[Lan83] E.H. Land. Recent advances in retinex theory and some implications for cortical computations: Color vision and the natural image. In *Proc. Nat'l. Acad. Sci.*, volume 80, pages 5163–5169, 1983.

[Lan86] E.H. Land. Recent advances in retinex theory. *Vision Research*, 26:7–21, 1986.

[LFJ04] M.H.C. Law, M.A.F. Figueiredo, and A.K. Jain. Simultaneous feature selection and clustering using mixture models. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 26(9):1154–1166, September 2004.

[LGL97] J. Luo, R.T. Gray, and H.C. Lee. Towards physics-based segmentation of photographic color image. In *Proc. of 1997 Int'l Conf. on Image Processing, ICIP'97*, volume III, pages 58–61, October 1997.

[LGL98] J. Luo, R.T. Gray, and H.C. Lee. Incorporation of derivative priors in adaptive Bayesian color image segmentation. In *Proc. of 1998 Int'l Conf. on Image Processing, ICIP'98*, volume III, pages 780–784, October 1998.

[LH74] C.L. Lawson and R.J. Hanson. *Solving Least Squares Problems*. Prentice-Hall Ed., 1974.

[Li95] S.Z. Li. M*arkov Random Field Modeling in Computer Vision*. Ed. Tosiyasu L. Kunii, Springer-Verlag, Berlin, 1995.

[LL90] Y.W. Lim and S.U. Lee. On the color image segmentation algorithm based on the thresholding and fuzzy c-means techniques. *Pattern Recognition*, 23:935–952, 1990.

[LLY+94] L.J. Liu, J.F. Lu, J.Y. Yang, K. Liu, Y.G. Wu, and S.J. Li. Efficient segmentation of nuclei in different color spaces. In *Proc. of the SPIE - The Int'l Soc. for Optical Eng., Appl. of Digital Image Proc.*, volume XVII, pages 773–778, July 1994.

[LM71] E.H. Land and J.J. McCann. Lightness and retinex theory. *J. Opt. Soc. Am.*, 61:1–11, 1971.

[LM77] E.H. Land and J.J. McCann. The retinex theory of color vision. *Scientific American*, 6(237):108–129, 1977.

[LM98] L. Lucchese and S.K. Mitra. An algorithm for unsupervised color image segmentation. In *Proc. of 1998 IEEE* $2^{nd}$ *Workshop on Multimedia Signal Processing*, pages 33–38, December 1998.

[LM99] L. Lucchese and S.K. Mitra. Advances in color image segmentation. In *Proc. Global Telecommunications Conference Globecom*, pages 2038–2044, December 1999.

[LM01] L. Lucchese and S.K. Mitra. Color image segmentation: A state-of-the-art survey. *Proc. of the Indian National Science Academy (INSA-A)*, 67, A(2):207–221, March 2001.

[LY94] J. Liu and Y.H. Yang. Multiresolution color image segmentation. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 16(7):689–700, July 1994.

[Mal85] L.T. Maloney. *A Computational Approach to Color Constancy.* PhD thesis, Applied Psychology Laboratories, Stanford University, 1985.

[Mal86] L.T. Maloney. Evaluation of linear models of surface spectral reflectance with small numbers of parameters. *J. Opt. Soc. Am. A*, 3:1673–1683, 1986.

[Mar94] R.J. Marks. Alternating projections onto convex sets. In *Deconvolution of Images and Spectra*, pages 476–501. Academic Press, 1994.

[MB97] A. Moghaddamzadeh and N. Bourbakis. A fuzzy region growing approach for segmentation of color images. *Pattern Recognition*, 30(6):867–881, June 1997.

[McC97] J.J. McCann. Magnitude of color shifts from average quanta catch adaption. In *Proc. IS&T/SID* $5^{th}$ *Color Imaging Conf.: Color Science, Systems and Application*, pages 215–220, 1997.

[MD97] Z.N. Li M.S. Drew, J. Wei. On illuminant invariance in color object recognition. Technical Report CMPT-TR 97-07, School of Computer Science, Simon Fraser University, 1997.

[MK97] G. McLachlan and T. Krishnan. *The* EM *Algorithm and Extensions.* John Wiley & Sons, 1997.

[MM97a] W. Ma and B. Manjunath. NeTra: A toolbox for navigating large image database. In *Proc. IEEE Int'l Conf. Image Processing*, pages 568–571, 1997.

[MM97b] W.Y. Ma and B.S. Manjunath. Edge flow: A framework of boundary detection and image segmentation. In *Proc. of IEEE Int. Conf. on Computer Vision and Pattern Recognition (CVPR'97)*, pages 744–749, June 1997.

[MMK95] J. Matas, R. Marik, and J. Kittler. On representation and matching of multi-coloured objects. In *Proc.* $5^{th}$ *Intl. Conf. on Computer Vision*, pages 726–732, 1995.

[MMK97] J. Matas, R. Marik, and J. Kittler. Illumination invariant colour recognition. In *Proc. IS&T/SID* $5^{th}$ *Color Imaging Conference: Color Science, Systems and Application*, pages 215–220, 1997.

[MN99] T. Mitsunaga and S.K. Nayar. Radiometric self calibration. In *Proc. Computer Vision and Pattern Recognition*, volume I, pages 374–380, 1999.

[MP90] J. Malik and P. Perona. Preattentive texture discrimination with early vision mechanisms. *Journal of Opt. Soc. Am. A*, 7(5):923–932, 1990.

[MP00] G. McLachlan and D. Peel. *Finite Mixture Models*. John Wiley & Sons, 2000.

[MS94] B.A Maxwell and S.A. Shafer. A framework for segmentation using physical models of image formation. In *Proc. 1994 IEEE Comp. Soc. Conf. on Computer Vision and Pattern Recognition, CVPR '94*, pages 361–368, June 1994.

[MS96] B.A Maxwell and S.A. Shafer. Physics-based segmentation: Moving beyond color. In *Proc. 1996 IEEE Comp. Soc. Conf. on Computer Vision and Pattern Recognition, CVPR '96*, pages 742–749, June 1996.

[MS97] B.A. Maxwell and S.A. Shafer. Physics-based segmentation of complex objects using multiple hypotheses of image formation. *Computer Vision and Image Understanding*, 65(2):269–295, February 1997.

[MW86] L.T. Maloney and B.A. Wandell. Color constancy: A method for recovering surface spectral reflectance. *J. Opt. Soc. Am. A*, 1(3):29–33, 1986.

[MW92] D. Marimont and B.A. Wandell. Linear models of surface and illumination spectra. *J. Opt. Soc. Am. A*, 9(11):1905–1913, November 1992.

[NB93] S.K. Nayar and R.M. Bolle. Computing reflectance ratios from an image. *Pattern Recognition*, 26(10):1529–1542, October 1993.

[NB96] S.K. Nayar and R.M. Bolle. Reflectance based object recognition. *Int. J. Computer Vision*, 17(3):219–240, March 1996.

[NIK91] S.K. Nayar, K. Ikeuchi, and T. Kanade. Surface reflection: Physical and geometrical perspective. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 13(7):611–634, July 1991.

[NNM96] S.A. Nene, S.K. Nayar, and H. Murase. Columbia object image library (coil-100). Technical Report CUCS-006-96, Department of Computer Science, Columbia University of New York, 1996.

[NRS04] A. Natsev, R. Rastogi, and K. Shim. WALRUS: A similarity retrieval algorithm for images databases. *IEEE Trans. on Knowledge and Data Engineering*, 16(3):301–316, 16 2004.

[NSL03] M.A. Nascimento, V. Sridhar, and X. Li. Effective and efficient region-based image retrieval. *Journal of Visual Languages and Computing*, 14(2):151–179, March 2003.

[OKHO94] H. Okii, N. Kaneki, H. Hara, and K. Ono. Automatic color segmentation method using a neural network model for stained images. *IEICE Trans. on Information and Systems (Japan)*, E77-D(3):343–350, March 1994.

[OKS80] Y. Ohta, T. Kanade, and T. Sakai. Color information for region segmentation. *Computer Graphics and Image Processing*, 13:224–241, 1980.

[Pap92] T.N. Pappas. An adaptive clustering algorithm for image segmentation. *IEEE Trans. on Signal Processing*, 40(4):901–913, 1992.

[PFTV93] W.H. Press, B.P. Flannery, S.A. Teukolsky, and W.T. Vetterling. *Numerical Recipes in* C*: The Art of Scientific Computing*. Cambridge University Press, 2on edition, January 1993.

[PH95] D.K. Panjwani and G. Healey. Markov random field models for unsupervised segmentation of textured color images. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 17(10):939–954, October 1995.

[PHJ86] J.P.S. Parkkinen, J. Hallikäinen, and T. Jääskeläinen. Characteristic spectral of Munsell color. *J. Opt. Soc. Am. A*, 6(2):318–322, February 1986.

[Pho75] B.T. Phong. Illumination for computer generated pictures. *Comm. ACM*, 18(6):311–317, 1975.

[Pip91] A.C. Pipkin. *A Course on Integral Equations*. Springer-Verlag, Berlin, 1991.

[PK94] F. Perez and C. Koch. Toward color image segmentation in analog VLSI: Algorithm and hardware. *Int'l Journal of Computer Vision*, 12(1):17–42, February 1994.

[PP93] N.P. Pal and S.K. Pal. A review on image segmentation techniques. *Pattern Recognition*, 26(9):1277–1294, 1993.

[PPS94] A. Pentland, R.W. Picard, and S. Sclaroff. Photobook: Tools for content-based manipulation of image databases. *Proc. SPIE*, 2185:34–47, February 1994.

[PYL98] S.H. Park, I.D. Yun, and S.U. Lee. Color image segmentation based on 3D clustering: Morphological approach. *Pattern Recognition*, 31(8):1061–1076, August 1998.

[RBK98] H. A. Rowley, S. Baluja, and T. Kanade. Neural network-based face detection. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 20(1):23–38, 1998.

[RGT97] Y. Rubner, L.J. Guibas, and C. Tomasi. The earth mover's distance, multi-dimensional scaling and color-based image retrieval. In *Proc. DARPA Image Understanding Workshop*, pages 661–668, May 1997.

[RP97] V. Rehrmann and L. Priese. Fast and robust segmentation of natural color scenes. Technical report, Computer Science Department, University of Koblenz-Landau, 1997.

[RP98] V. Rehrmann and L. Priese. Fast and robust segmentation of natural color scenes. In *Proc. of Annual Conf. Computer Vision*, volume 1, pages 598–606, 1998.

[RTT95] S. Ray, R. H. Turi, and P. E. Tischer. Clustering-based colour image segmentation: An evaluation study. In *Proc. of Digital Image Computing: Technology and Applications*, pages 86–92, December 1995.

[Saa94] K. Saarinen. Color image segmentation by a watershed algorithm and region adjacency graph processing. In *Proc. of 1994 Int'l Conf. on Image Processing (ICIP'94)*, volume III, pages 1021–1025, November 1994.

[SAA+02] A. Sanfeliu, R. Alquézar, J. Andrade, J.Climent, F. Serratosa, and J. Vergés-Llahí. Graph-based representations and techniques for image processing and image analysis. *Pattern Recognition*, 35:639–650, 2002.

[Sap96] G. Sapiro. Vector (self) snakes: A geometric framework for color, texture and multiscale image segmentation. In *Proc. Int. Conf. Image Processing*, volume 1, pages 817–820, 1996.

[Sap97] G. Sapiro. Color snakes. *Computer Vision and Image Understanding*, 68(2):247–253, November 1997.

[Sap98] G. Sapiro. Bilinear voting. In *Proc. Int. Conf. on Computer Vision*, pages 178–183, 1998.

[Sap99] G. Sapiro. Color and illuminant voting. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 21(11):1210–1215, November 1999.

[SB90] M.J. Swain and D.H. Ballard. Indexing via color histograms. In *Proc. Int. Conf. on Computer Vision*, pages 390–393, December 1990.

[SB91] M.J. Swain and D.H. Ballard. Color indexing. *Int. J. of Computer Vision*, 7(1):11–32, January 1991.

[SBLM98] J. Shi, S. Belongie, T. Leung, and J. Malik. Image and video segmentation: The normalized cut framework. In *Proc. of Int. Conf. Image Processing*, volume 1, pages 943–947, 1998.

[SC96a] B. Schiele and J.L. Crowley. Object recognition using multidimensional receptive field histograms. In *Proc. Int. European Conf. on Computer Vision*, pages 610–619, 1996.

[SC96b] J.R. Smith and S.F. Chang. VisualSEEK: A fully automated content-based query system. In *Proc. ACM Multimedia*, pages 87–98, 1996.

[Sha85] S.A. Shafer. Using color to separate reflection components. *Color Research and Application*, 10(4):210–218, 1985.

[SK94] W. Skarbek and A. Koschan. Colour image segmentation: A survey. Technical Report 94-32, Computer Science Department, Berlin Technical University, October 1994.

[SK97] C. Scheering and A. Knoll. Fast colour image segmentation using a pre-clustered chromaticity-plane. In *Proc. of 1997 IEEE Int'l Conf. on Acoustics, Speech, and Signal Processing, ICASSP'97*, volume 4, pages 3145–3147, April 1997.

[SM97] J. Shi and J. Malik. Normalized cuts and image segmentation. In *Proc. of Int. Conf. Computer Vision and Pattern Recognition*, pages 731–737, 1997.

[SM01] D.K. Srivastava and G.S. Mudholkar. Trimmed $\tilde{T}^2$: A robust analog of Hotelling's $T^2$. *Journal of Statistical Planning and Inference*, 97:343–358, 2001.

[SNF02] R.O. Stehling, M.A. Nascimento, and A.X. Falcao. MiCRoM: A metric distance to compare segmented images. In *Proc. of the 2002 Visual Information Systems Conference*, pages 12–23, 2002.

[SP96] K. Sobottka and I. Pitas. Segmentation and tracking of faces in color images. In *Proc.* $2^{nd}$ *Int. Conf. on Automatic Face and Gesture Recognition*, pages 236–241, 1996.

[SPK97] L. Shafarenko, M. Petrou, and J. Kittler. Automatic watershed segmentation of randomly textured color images. *IEEE Trans. on Image Processing*, IP-6(11):1530–1544, November 1997.

[SPK98] L. Shafarenko, M. Petrou, and J. Kittler. Histogram-based segmentation in a perceptually uniform color space. *IEEE Trans. on Image Processing*, IP-7(9):1354–1358, September 1998.

[SS82] M.I. Sezan and H. Stark. Image restoration by the method of convex projections: Part II - applications and numerical results. *IEEE Trans. Medical Imaging*, MI-1(2):95–102, October 1982.

[SS94] R. Schettini and M. Suardi. A low-level segmentation procedure for color images. In *Proc. of the* $7^{th}$ *European Signal Processing Conference (EUSIPCO-94)*, volume I, pages 26–29, September 1994.

[SSNM99] M. Sammouda, R. Sammouda, N. Niki, and K. Mukai. Segmentation and analysis of liver cancer pathological color images based on artificial neural networks. In *Proc. 1999 International Conference on Image Processing, ICIP 99*, volume 3, pages 392–396, October 1999.

[ST93] G. Sharma and H.J. Trussell. Characterization of scanner sensitivity. In *Proc. IS&T and SID's Color Imaging Conference: Transforms & Transportability of Color*, pages 103–107, 1993.

[ST96] G. Sharma and H.J. Trussell. Set theoretic estimation in color scanner characterization. Technical Report 94-32, Electrical and Computer Engineering Dept., North Carolina State University, October 1996.

[ST97] G. Sharma and H.J. Trussell. Digital color imaging. *IEEE Trans. on Image Processing*, 6(7):990–1001, July 1997.

[STB96] E. Saber, A.M. Tekalp, and G. Bozdagi. Fusion of color and edge information for improved segmentation and edge linking. In *Proc of 1996 IEEE Int'l Conf. on Acoustics, Speech, and Signal Processing, ICASSP'96*, volume 4, pages 2176–2179, May 1996.

[STEK95] E. Saber, A.M. Tekalp, R. Eschbach, and K. Knox. Annotation of natural scenes using adaptive color segmentation. In *Proc. of the SPIE - The Int'l Soc. for Optical Eng., Image and Video Proc.*, volume III, pages 72–80, February 1995.

[TA99] K. Takahashi and K. Abe. Color image segmentation using isodata clustering algorithm. *Trans. of the Institute of Electronics, Information and Communication Engineers D-II*, J82D-II(4):751–762, April 1999.

[TB97] A. Tremeau and N. Borel. A region growing and merging algorithm to color segmentation. *Pattern Recognition*, 30(7):1191–1204, July 1997.

[TEW01] S.T. Tominaga, S. Ebisui, and B.A. Wandell. Scene illumination classification: Brighter is better. *J. Opt. Soc. Am.*, 18(1):55–64, January 2001.

[TLT95] D.C. Tseng, Y.F. Li, and C.T. Tung. Circular histogram thresholding for color image segmentation. In *Proc. of the* $3^{rd}$ *Int'l Conf. on Document Analysis and Recognition*, volume 2, pages 673–676, August 1995.

[TO90] M. Tsukada and Y. Ohta. An approach to color constancy using multiple images. In *Proc. Int. Conf. Computer Vision*, volume 3, pages 385–389, 1990.

[TO00] S. Tominaga and R. Okajima. A spectral-imaging system and algorithms for recovering spectral functions. In *Proc.* $4^{th}$ *IEEE Southwest Symposium on Image Analysis and Interpretation*, pages 278 –282, 2000.

[Tom91] S. Tominaga. Surface identification using the dichromatic reflection model. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 13(7):658–670, July 1991.

[TS67] K.E. Torrance and E. Sparrow. Theory for off-specular reflection from roughened surfaces. *J. Opt. Soc. Am.*, 57(9):1105–1114, 1967.

[TW89] S. Tominaga and B.A. Wandell. The standard surface reflectance model and illumination estimation. *J. Opt. Soc. Am.*, 6:576–584, 1989.

[TW90] S. Tominaga and B.A. Wandell. Component estimation of surface spectral reflectance. *J. Opt. Soc. Am.*, 7(2):312–317, February 1990.

[UA94] T. Uchiyama and M.A. Arbib. Color image segmentation using competitive learning. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 16(12):1197–1206, December 1994.

[Uch94] K. Uchimura. Color images segmentation using tree representation. *Trans. of the Institute of Electrical Engineers of Japan*, 114-C, Part C(12):1320–1321, December 1994.

[Urq97] R. Urquhart. Graph theoretical clustering based on limited neighborhood sets. In *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, pages 731–737, 1997.

[VC93] T. Vlachos and A.G. Constantinides. Graph-theoretical approach to colour picture segmentation and contour classification. In *IEE Proceedings, Part I*, volume 140, pages 36–45, February 1993.

[VFTB97a] P.L. Vora, J.E. Farrell, J.D. Tietz, and D.H. Brainard. Digital color cameras - 1 -response models. Technical Report HP-97-53, Hewlett-Packard Company, March 1997.

[VFTB97b] P.L. Vora, J.E. Farrell, J.D. Tietz, and D.H. Brainard. Digital color cameras - 2 - spectral response. Technical Report HP-97-54, Hewlett-Packard Company, March 1997.

[VFTB97c] P.L. Vora, J.E. Farrell, J.D. Tietz, and D.H. Brainard. Linear models for digital cameras. In *Proc. 1997 IS&T* $5^{th}$ *Annual Conference*, pages 377–382, May 1997.

[VGI94] M.J. Vrhel, R. Gershon, and L.S. Iwan. Measurement and analysis of object reflectance spectra. *Color Research and Application*, 19(1):4–9, February 1994.

[VLCS00] J. Vergés-Llahí, J. Climent, and A. Sanfeliu. Colour image segmentation solving hard-constraints on graph-partitioning greedy algorithm. In *Proc.* $15^{th}$ *International Conference on Pattern Recognition , ICPR00*, volume 3, pages 629–632, September 2000.

[VLS03a] J. Vergés-Llahí and A. Sanfeliu. *Colour Constancy Algorithm Based on Colour Histogram Distance Minimization*, volume 2652, pages 1066–1073. Pattern Recognition and Image Analysis, Lecture Notes on Computer Science, Ed. Springer, June 2003.

[VLS03b] J. Vergés-Llahí and A. Sanfeliu. *A Colour Constancy Algorithm Based on the Histogram of Feasible Colour Mappings*, volume 2905, pages 171–179. Progress in Pattern Recognition, Speech and Image Analysis, Lecture Notes on Computer Science, Ed. Springer, November 2003.

[VLS04] J. Vergés-Llahí and A. Sanfeliu. A color constancy algorithm for the robust description of images collected from a mobile robot. To be published in Proc. of the $9^{th}$ Iberoamerican Congress on Pattern Recognition, CIARP2004, October 2004.

[VLTS02] J. Vergés-Llahí, A. Tarrida, and A. Sanfeliu. New approaches for colour histogram adaptation in face tracking tasks. In *Proc.* $16^{th}$ *International Conference on Pattern Recognition, ICPR02*, volume I, pages 381–384, August 2002.

[VT93] M.J. Vrhel and H.J. Trussell. Physical device illumination correction. In *Device-Independent Color Imaging and Imaging Systems Integration*, volume 1909, pages 84–91, 1993.

[Wan86] B.A. Wandell. Color rendering of color camera. *Color Research and Application*, 11:30–33, 1986.

[Wan87] B.A. Wandell. The synthesis and analysis of color images. *IEEE Trans. on Pattern Recognition and Machine Intelligence*, 9(1):2–13, January 1987.

[Wan98] J.P. Wang. Stochastic relaxation on partitions with connected components and its application to image segmentation. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 20(6):619–635, June 1998.

[Win91] G.M. Wing. *A Primer on Integral Equations of the First Kind. The Problem of Deconvolution and Unfolding.* SIAM, Philadelphia, 1991.

[WL93] Z. Wu and R. Leahy. An optimal graph theoretic approach to data clustering: Theory and its applications to image segmentation. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 15(11):1101–1113, November 1993.

[WLW01] J.Z. Wang, J. Li, and G. Wiederhold. SIMPLIcity: Semantics-sensitive integrated matching for picture libraries. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 23(9):947–963, September 2001.

[Wol94] L.B. Wolff. Diffuse-reflectance model for smooth dielectric surfaces. *J. Opt. Soc. Am.*, 11(11):2956–2968, November 1994.

[WS82] G. Wyszecki and W.S. Stiles. *Color Science: Concept and Methods, Qualitative Data and Formulae.* John&Wiley, New York, $2^{nd}$ edition, 1982.

[WSC97] W. Wang, C. Sun, and H. Chao. Color image segmentation and understanding through connected components. In *Proc. of 1997 IEEE Int. Conf. on Systems, Man, and Cybernetics*, volume 2, pages 1089–1093, October 1997.

[WWFS98] J.Z. Wang, G. Wiederhold, O. Firschein, and X.W. Sha. Content-based image indexing and searching using Daubechies' wavelets. *Int'l Digital Libraries*, 1(2):311–328, 1998.

[XU97] Y. Xu and E.C Uberbacher. 2D image segmentation using minimum spanning trees. *Image and Vision Computing*, 15(1):47–57, 1997.

[Yam98] T. Yamazaki. Introduction of EM algorithm into color image segmentation. In *Proc. Int. Conf. on Image Processing, ICIPS'98*, pages 368–371, August 1998.

[YL98] N. H. C. Yung and H. S. Lai. Segmentation of color images based on the gravitational clustering concept. *The Journal of SPIE Optical Engineering*, 37(3):989–1000, March 1998.

[YW82] D.C. Youla and H. Webb. Image restoration by the method of convex projections: Part I - theory. *IEEE Trans. Medical Imaging*, MI-1(2):81–94, October 1982.

[Zah71] C.T. Zahn. Graph-theoretical methods for detecting and describing gestalt glusters. *IEEE Trans. on Computers*, 20:68–86, 1971.

[Zha96] Y.J. Zhang. A survey on evaluation methods for image segmentation. *Pattern Recognition*, 29(8):1335–1346, 1996.

[Zha97] Y.J. Zhang. Evaluation and comparison of different segmentation algorithms. *Pattern Recognition Letters*, 18:963–974, 1997.

[Zha01] Y.J. Zhang. A review of recent evaluation methods for image segmentation. In *Proc.* $6^{th}$ *Int. Symp. on Signal Processing and its Applications, ISSPA*, volume 1, pages 148–151, August 2001.

*Aquest document fou finalitzat*
*a Tarragona l'Abril de 2005*