References

Ahuja81	N. Ahuja & B.J. Schachter, "Image models", Computing Surveys, V13, December 1981, pp373-397.
Arduini92	F. Arduini, S. Fioravanti, D.D. Giusto, & F. Inzirillo, "Multifractals and texture classification", Proceedings of IEE International Conference on Image Processing and its Applications, Maastricht, April 1992, pp454-457.
Bajcsy76	R. Bajcsy & L. Lieberman, "Texture gradient as a depth cue", CGIP, V5, 1976, pp52-67.
Baston75	R.M. Baston, K. Edwards & E.M. Edwards & E.M Eliason, "Computer generated shaded-relief images", Journal U.S. Geol. Survey, V3 Pt 4, July/August 1975, pp401-408 .
Beckmann63	P. Beckmann & A. Spizzichino, "*The scattering of electromagnetic waves from rough surfaces*", Pergamon, 1963.
Bennett89	J.M. Bennett & L. Mattsson, "*Surface roughness and scattering*", Optical Society of America, Washington D.C., 1989.
Blake90	A. Blake & C. Marinos, "Shape from texture : estimation, isotropy and moments", Artificial Intelligence, V45, 1990, pp323-380.
Blinn78	J. Blinn, "Simulation of wrinkled surfaces", Proceedings of SIGRAPH '78, 1978, pp286-292.
Blinn90	J. Blinn, "The truth about texture mapping", IEEE Computer Graphics & Applications, March 1990, pp78-83.
Blostein89	D. Blostein & N. Ahuja, "Shape from texture: integrating texture-element extraction and surface estimation", PAMI, V11, December 1989, pp1233-1251.
Boulanger89	P. Boulanger, A. Gagalowicz & M. Rioux, "Integration of synthetic surface relief in range images", CVGIP V47, 1989, pp361-372.
Bouville85	C. Bouville, "Bounding ellipsoids for ray-fractal intersection", SIGGRAPH, V19, July 1985, pp45-52.
Bovik87	A.C. Bovik, M. Clark & W.S. Geisler, "Computational texture analysis using localised spatial filtering", Proceedings of IEEE Computer Society workshop on Computer Vision, Miami Beach, 1987, pp201-206.
Box76	G.E.P. Box & G.M. Jenkins "*Time series analysis forecasting and control*", Holden-Day, San Francisco, 1976.
Brigham88	E.O. Brigham, "*The fast Fourier transform and its applications*", Prentice Hall, 1988.
Brodatz66	P. Brodatz, "*Textures : a photographic album for artists and designers*", Dover, New York, 1966.
Castrec88	P. Castrec & J-P. Kernin, "Textural segmentation of natural sea bottom", Proceedings of Undersea Defence Technology Conference, Paris, 1988, pp445-450.
Chantler91	M.J. Chantler, "Texture analysis of underwater video images", Research memorandum RM/91/25, Dept. of Electrical & Electronic Engineering, Heriot-Watt University, December 1991.

Chellappa82	R. Chellappa & R.L. Kashyap, "Digital image restoration using spatial interaction models", ASSP V30, June 1982, pp461-472.
Chellappa85a	R. Chellappa & S. Chatterjee, "Classification of textures using Gaussian Markov random fields", ASSP V33, August 1985, pp959-963.
Chellappa85b	R. Chellappa, S. Chatterjee & R. Bagdazian, "Texture synthesis and compression using Gaussian-Markov random fields", SMC, V15, No. 2, 1985, pp298-308.
Chen90	S.S. Chen, J.M. Keller & R.M. Crownover, "Shape from fractal geometry", Artificial Intelligence, V43, 1990, pp199-218.
Choe91a	Y. Choe & R.L. Kashyap, "Modeling, estimation, and pattern analysis of random texture on 3-D surfaces", Report TR-EE-91-4, School of Electrical Engineering, Purdue University, Indiana, January 1991.
Choe91b	Y. Choe & R.L. Kashyap, "3-D shape from a shaded and textural surface image", PAMI V13, Sept. 1991, pp907-919.
Clarke92	S.J. Clarke, "The analysis and synthesis of texture in sidescan sonar data", Ph.D. thesis, Dept. Electrical & Electronic Engineering, Heriot-Watt University, May 1992.
Cohen91a	F.S. Cohen, Z. Fan & M.A.S. Patel, "Classification of rotated and scaled textured images using Gaussian Markov field models", PAMI V13, February 1991, pp192-202.
Cohen91b	F.S. Cohen, Z. Fan & S. Attali, "Automated inspection of textile fabrics using textural models", PAMI V13, August 1991, pp803-808.
Cohen91c	F.S. Cohen & M.A.S. Patel, "Modeling and synthesis of images of 3d textured surfaces", CVGIP: graphical models and image processing, V53, November 1991, pp501-510.
Conners80	R.W. Conners & C.A. Harlow, "A theoretical comparison of texture algorithms", PAMI V2, May 1980, pp204-222.
Cooper86	G.R. Cooper & C.D. McGillem, "*Probabilistic methods of signal and system analysis*", CBS College Publishing, 1986.
D'Astous84	F. D'Astous and M.E. Jernigan, "Texture discrimination based on detailed measures of the power spectrum", 7th International Conference on Pattern Recognition, Montreal, July 1984, pp83-86.
Davies90	E.R. Davies, "*Machine vision: theory, algorithms, practicalities*", Academic Press, 1990.
Davis73	J.C. Davis, "*Statistics and data analysis in Geology*", Wiley, 1973.
Davis81a	L.S. Davis, M. Clearman & J.K. Aggarwal, "An empirical evaluation of generalised cooccurrence matrices", PAMI V3, March 1981, pp214-221.
Davis81b	L.S. Davis, "Polarograms : a new tool for image texture analysis", Pattern Recognition, V13, No. 3, 1981, pp219-223.
Davis83	L.S. Davis, L. Janos & S.M. Dunn, "Efficient recovery of shape from texture", PAMI V5, Sept. 1983, pp485-492.
Dennis89	T.J. Dennis & N.G. Dessipris, "Fractal modelling in image texture analysis", IEE Proceedings, V136, Pt. F, No. 5, October 1989, pp227-235.
Dinstein84	I. Dinstein, A.C. Fong, L.M. Ni & K.Y. Wong, "Fast discrimination between homogeneous and textured regions", Proceedings of IEEE 7th International Conference on Pattern Recognition , Montreal, July 1984, pp361-363.

duBuf90	J.M.H. du Buf, M. Kardan & M. Spann, "Texture feature performance for image segmentation", Pattern Recognition, V23, No. 3/4, 1990, pp291-309
Gagalowicz86	A. Gagalowicz & S. De Ma, "Model driven synthesis of natural textures for 3-D scenes", Computers & Graphics, V10, 1986, pp161-170.
Gibson50	J. Gibson, "*The perception of the visual world*", Houghton Mifflin Company, Boston, MA, 1950.
Greenhill93	D. Greenhill & E.R. Davies, "Texture analysis using neural networks and mode filters", Proceedings of BMVC93, September 1993, University of Surrey, Guildford, pp509-518.
Haralick73	R.M. Haralick, K. Shanmugam & I. Dinstein, "Textural features for image classification", SMC, November 1973, pp611-621.
Haralick79	R.M. Haralick, "Statistical and structural approaches to texture", Proceedings of the IEEE, V67, No. 5, May 1979, pp786-804.
Haruyama84	S. Haruyama & B.A. Barsky, "Using stochastic modeling for texture generation", IEEE Computer Graphics & Applications, March 1984, pp7-19.
Harwood85	D. Harwood, M. Subbarao & L.S. Davis, "Texture classification by local rank correlation", CVGIP V32, 1985, pp404-411.
Hassner80	M. Hassner & J. Sklansky, "The use of Markov random fields as models of texture", CGIP V12, 1980, pp357-370.
He88	D-C He, L. Wang & J. Guibert, "Texture discrimination based on an optimal utilization of texture features", Pattern Recognition, V21, No. 2, 1988, pp141-146.
Heckbert86	P.S. Heckbert, "Survey of texture mapping", IEEE Computer Graphics & Applications, November 1986, pp56-67.
Horn89	B.K.P. Horn & M.J. Brooks, "*Shape from shading*", MIT Press, 1989.
Hosking81	J.R.M. Hosking, "Fractional differencing", Biometrika, V68, 1981, pp165-176.
Huang72	T.S. Huang, "Two-dimensional windows", IEEE Transactions on Audio and Electroacoustics, March 1972, pp88-89.
Huang78	T.S. Huang, G.J. Yang & G.Y. Tang, "A fast two-dimensional median filtering algorithm", Proceedings of IEEE Conference on Pattern Recognition and Image Processing, May, 1978, pp128-131.
Ikeuchi81	K. Ikeuchi & B.K.P. Horn, "Numerical shape from shading and occluding boundaries", Artificial Intelligence, V 17, p141-184.
Jackson86	D.R. Jackson, D.P. Winebrenner & A. Ishimaru, "Application of the composite roughness model to high-frequency bottom backscattering", Journal Acoustic Society of America, V79, No. 5, May 1986, pp1410-1422.
Jain91	A.K. Jain & F. Farrokhnia, "Unsupervised texture segmentation using Gabor filters", Pattern Recognition, V24, No. 12, 1991, pp1167-1186.
James85	M. James, "*Classification algorithms*", Collins, 1985.
Kanatani84	K. Kanatani, "Detection of surface orientation and motion from texture by a stereological technique", Artificial Intelligence, V23, 1984, pp213-237.
Kartikeyan91	B. Kartikeyan & A. Sarkar "An identification approach for 2-d autoregressive models in describing textures", CVGIP Graphical Models and Image Processing, V53, March 1991, pp121-131.

Kashyap80 R.L. Kashyap, "Univariate and multivariate random field models for images", CGIP V12, 1980, pp257-270.

Kashyap83 R.L. Kashyap & R. Chellappa, "Estimation and choice of neighbors in spatial-interaction models of images", IT V29, January 1983, pp60-72.

Kashyap84 R.L. Kashyap & P.M. Lapsa, "Synthesis and estimation of random fields using long correlation models", PAMI V6, November 1984, pp800-809.

Kashyap86 R.L. Kashyap & A. Khotanzad, "A model-based method for rotation invariant texture classification", PAMI V8, July 1986, pp472-481.

Kashyap89 R.L. Kashyap & K-B Eom, "Texture boundary detection based on the long correlation model", PAMI V11, January 1989, pp58-67.

Kay81 S.M. Kay & S.L. Marple, "Spectrum analysis - a modern perspective", Proceedings IEEE, V69, No. 11, November 1981, pp1380-1419.

Keller87 J.M. Keller, R.M. Crownover, & R.Y. Chen, "Characteristics of natural scenes related to the fractal dimension" PAMI, V9, Sept.1987, pp621-627.

Keller89 J.M. Keller, & S. Chen, "Texture description and segmentation through fractal geometry" CVGIP V45, 1989, pp150-166.

Kender80 J.R. Kender, "Shape from Texture", Ph.D. thesis, Carnegie-Mellon University, November 1980.

Khotanzad87 A. Khotanzad and R.L. Kashyap, "Feature Selection for Texture Recognition Based on Image Synthesis", SMC V17, November/December 1987, pp1087-1095.

Khotanzad89 A. Khotanzad and J-Y Chen, "Unsupervised Segmentation of Textured Images by Edge Detection in Multidimensional Features", PAMI V11, April 1989, pp414-421.

Kruger74 R.P. Kruger, W.B. Thompson & A.F. Turner, "Computer diagnosis of Pneumoconiosis" SMC V4, 1974, pp40-49.

Kube88 Kube, P. & Pentland, A., "On the imaging of fractal surfaces", IEEE Transactions Pattern Analysis and Machine Intelligence, Vol. 10, No. 5, pp704-707, Sept. 1988.

Laws79 K.I. Laws, "Texture energy measures", Proceedings of Image Understanding Workshop, November 1979, pp47-51.

Laws80 K.I. Laws, "Textured image segmentation", Ph.D. thesis, Dept. Electrical Engineering, University of Southern California, January 1980.

Lendaris70 G.G. Lendaris & G.L. Stanley, "Diffraction-pattern sampling for automatic pattern recognition" Proceedings of IEEE, V58, February 1970, pp198-216.

Lim90 J.S. Lim, "*Two-dimensional signal and image processing*", Prentice-Hall, 1990.

Linnett91a L.M. Linnett, "Multi-texture image segmentation", Ph.D. thesis, Dept. Computing and Electrical Engineering, Heriot-Watt University, March 1991.

Linnett91b L.M. Linnett, S.J. Clarke, C. Graham & D.N. Langhorne, "Remote sensing of the sea-bed using fractal techniques", Electronics & Communication Engineering Journal, October 1991, pp195-203.

Linnett93 L.M. Linnett, D.R. Carmichael, S.J. Clarke & A.D. Tress, "Texture analysis of sidescan sonar data", IEE seminar "Texture analysis in radar and sonar", London, November 1993, pp2/1-2/6.

Lovell92 R. Lovell, W.R. Uttal, T. Shepherd & S. Dayanand, "A model of visual texture discrimination using multiple weak operators and spatial averaging", Pattern Recognition, V25, No. 10, 1992, pp1157-1170.

McDaniel83 S.T. McDaniel & A.D. Gorman, "An examination of the composite-roughness scattering model", Journal Acoustic Society of America, V73, No. 5, May 1983, pp1476-1486.

Mandelbrot83 B.B. Mandelbrot, "*The fractal geometry of nature*", W.H. Freeman, New York, 1983.

Mandelbrot85 Mandelbrot, B.B., "Self-affine fractals and the fractal dimension", Physica Scripta V32, pp257-260, 1985.

Mao92 J. Mao & A.K. Jain, "Texture classification and segmentation using multiresolution simultaneous autoregressive models", Pattern recognition, V25, No.2, 1992, pp 173-188.

Marple87 S.L. Marple, "*Digital spectral analysis with applications*", Prentice Hall, 1987.

Medioni84 G.G. Medioni & Y. Yasumoto, "A note on using the fractal dimension for segmentation", Proceedings of the workshop on Computer Vision: Representation and Control, Annapolis, MD, USA, April-May 1984, pp25-30.

Miller91 P. Miller & S. Astley, "Classification of breast tissue by texture analysis", Proceedings of BVMC91, Glasgow, Sept. 1991.

Mosquera92 A. Mosquera, D. Cabello, M.J. Carreira & M.G. Penedo, "A fractal-based approach to segmentation", Proceedings of IEE International Conference on Image Processing and its Applications, Maastricht, Netherlands, April 1992, pp450-453.

Newman79 W.M. Newman & R.F. Sproull, "*Principles of interactive computer graphics*", McGraw Hill, 1979.

Ogilvy87 J.A. Ogilvy, "Wave scattering from rough surfaces", Reports on Progress in Physics, V50, 1987, pp1553-1608.

Ogilvy91 J.A. Ogilvy, "*Theory of wave scattering from random rough surfaces*", Adam Hilger, 1991.

Patel91 Patel, A.S., "Shape extraction of 3-D textured scenes from image data", Ph.D. thesis, Drexel University, July 1991.

Patel93 M.A.S. Patel & F.S. Cohen, "Local surface shape estimation of 3-D textured surfaces using Gaussian Markov Random Fields and stereo windows", PAMI, V15, No. 10, October 1993, pp 1091-1098.

Peebles87 P.Z. Peebles, "*Probability, random variables, and random signal principles*", McGraw-Hill, 1987.

Peleg84 S. Peleg, J. Naor, R. Hartley & D. Avnir, "Multiple resolution texture analysis and classification", PAMI V6, July 1984, pp518-523.

Peli90 T. Peli, "Multiscale fractal theory and object characterisation", Journal Optical Society of America A, V7, No. 6, June 1990, pp1101-1112.

Pentland84 A.P. Pentland, "Fractal based description of natural scenes", PAMI V6, 1984, pp661-674.

Pentland86 A.P. Pentland, "Shading into texture", Artificial Intelligence, V29, 1986, pp147-170.

Pietikainen82	M. Pietikainen, A. Rosenfeld & L.S. Davis, "Texture classification using averages of local pattern matches", Proceedings of IEEE Computer. Society Conference on Pattern Recognition and Image Processing, 1982.
Pietikainen83	M. Pietikainen, A. Rosenfeld & L.S. Davis, "Experiments with texture classification using averages of local pattern matches", SMC V13 May/June 1983, pp421-426.
Reed93	T.R. Reed & J.M. Hans du Buf, "A review of recent texture segmentation and feature extraction techniques" CVGIP: Image Understanding, V57, No. 3, pp359-372, May 1993.
Rogers85	D.F. Rogers, "*Procedural elements for computer graphics*", McGraw Hill, 1985.
Rosenfeld75	A. Rosenfeld, "A note on the automatic detection of texture gradients", IEEE Transactions on Computers, October 1975, pp988-991.
Saupe88	D. Saupe, "Algorithms for random fractals" in *The science of fractal images*, H-O Peitgen & D Saupe (eds.), Springer Verlag, 1988, pp71-113.
Shang93	C. Shang & K. Brown, "Texture classification of side-scan sonar images with neural networks", IEE seminar "Texture analysis in radar and sonar", London, November 93, pages 3/1 to 3/9.
Sun83	C. Sun & W.G. Wee, "Neighboring gray level dependence matrix for texture classification", CVGIP V23, 1983, pp341-352.
Tou74	J.T. Tou & R.C. Gonzalez, "*Pattern recognition principles*", Addison-Wesley, 1974.
Unser86	M. Unser, "Sum and difference histograms for texture classification" PAMI V8, January 1986, pp118-125.
VanGool85	L. Van Gool, P. Dewaele & A. Oosterlinck, "Texture analysis anno 1983", CVGIP V29, 1985, pp336-357.
Vorburger93	T.V. Vorburger, E. Marx & T.R. Lettieri, "Regimes of surface roughness measurable with light scattering", Applied Optics, V32, No. 19, July 1993, pp3401-3408.
Voss88	R.F. Voss, "Fractals in nature: from characterisation to simulation" in *The science of fractal images*, H-O. Peitgen & D. Saupe (eds.), Springer Verlag, 1988, pp21-70.
Wechsler80	H. Wechsler, "Texture analysis - a survey" Signal Processing 2, pp271-282, 1980.
Welch67	P.D. Welch, "The use of fast Fourier transform for the estimation of power spectra : a method based on time averaging over short, modified periodograms", IEEE Transactions Audio and Electroacoustics, AU-15, No. 2, June 1967, pp70-73.
Weszka76	J.S. Weszka, C.R. Dyer 7 A. Rosenfeld, " A comparative Study of Texture Measures for Terrain Classification" SMC, April 1976, pp269-285.
Witkin81	A.P. Witkin, "Recovering surface shape and orientation from texture", Artificial Intelligence, V17, 1981, pp17-45.
Zucker80	S.W. Zucker & D. Terzopoulos, "Finding Structure in Co-occurrence Matrices for Texture Analysis", CGIP, V12, 1980, pp286-308.

Abbreviations for references

ASSP - IEEE Transactions on Acoustics, Speech, and Signal Processing

BMVC - British Machine Vision Conference

CGIP - Computer, Graphics & Image Processing

CVGIP - Computer Vision, Graphics & Image Processing

IT - IEEE Transactions on Information Theory

PAMI - IEEE Transactions on Pattern Analysis and Machine Intelligence

SMC - IEEE Transactions on Systems, Man, & Cybernetics