

References

- [1] C. S. Cho, B. M. Chung, and M. J. Park, “Development of real-time vision-based fabric inspection system,” *IEEE Transactions on Industrial Electronics*, vol. 52, no. 4, pp. 1073–1079, 2005.
- [2] R. Fu, M. Shi, H. Wei, and H. Chen, “Fabric defect detection based on adaptive local binary patterns,” in *2009 IEEE International Conference on Robotics and Biomimetics (ROBIO)*, 2009, pp. 1–12.
- [3] D. M. Tsai and C. Y. Heish, “Automated surface inspection for directional textures,” *Image and Vision Computing*, vol. 18, no. 1, pp. 49–62, 1999.
- [4] S. Guan and X. Shi, “Fabric defect detection based on wavelet decomposition with one resolution level,” in *2008 International Symposium on Information Science and Engineering*, Shanghai, 2008, pp. 281–285.
- [5] A. Islam, S. Akhter, and T. E. Mursalin, “Automated textile defect recognition system using computer vision and artificial neural networks,” *International Journal of Materials and Textile Engineering*, vol. 2, no. 1, pp. 110–115, 2008.
- [6] P. M. Shanbhag, M. P. Deshmukh, and S. S. R, “Overview: Methods of automatic fabric defect detection,” *Global Journal of Engineering Design and Technology*, vol. 1, no. 2, pp. 42–46, 2012.
- [7] R. S. Sabennian and M. E. Paramasivam, “Defect detection and identification in textile fabrics using multi resolution combined statistical and spatial frequency method,” in *2nd International Advance Computing Conference (IACC)*, Patiala, India, 2010, pp. 162–166.

- [8] S. Kelegama, J. Wijayasiri, T. Fonseka, D. Fonseka, R. Epaarachchi, F. Foley, S. Wickramasinghe, and D. Weerakon, *Ready-made Garment Industry in Sri Lanka: Facing the Global Challenge*, 1st ed. Institute of Policy Studies Sri Lanka, 2004.
- [9] H. A. Abou-Taleb and A. T. M. Sallam, "On-line fabric defect detection and full control in a circular knitting machine," *Autex Research Journal*, vol. 8, no. 1, pp. 21–29, 2008.
- [10] R. J. Kadkol, H. M. Rai, and A. H. Kulkarni, "Textile defect detection for fabric material using texture feature extraction," *International Journal of Latest Trends in Engineering and Technology*, vol. 2, no. 2, pp. 173–176, 2013.
- [11] S. Guan, X. Shi, H. Cui, and Y. Song, "Fabric defect detection based on wavelet characteristics," in *IEEE Pacific-Asia Workshop on Computational Intelligence and Industrial Application*, 2008, pp. 366–370.
- [12] A. Patel, *Towards Zero Defects: Plug Profit Leak*, 1st ed. Meena Publishers, 1974.
- [13] M. R. U. Repon and M. A. Al-Mamun, "Study on various faults, their causes and possible remedies of knitting and finishing sections of composite knit industries," *OmniScience: A Multi-disciplinary Journal*, vol. 3, no. 1, pp. 16–25, 2013.
- [14] A. Kumar, "Computer-vision-based fabric defect detection: A survey," *IEEE Transactions on Industrial Electronics*, vol. 55, no. 1, pp. 348–363, 2008.
- [15] R. G. Saeidi, M. Latifi, S. S. Najjar, and A. G. Saeidi, "Computer vision-aided fabric inspection system for on-circular knitting machine," *Textile Research Journal*, vol. 75, no. 6, pp. 492–497, 2005.

- [16] M. Patil, S. Verma, and J. Wakode, “A review on fabric defect detection techniques,” *International Research Journal of Engineering and Technology (IRJET)*, vol. 4, no. 9, pp. 131–136, 2017.
- [17] G. Nikam, L. Meena, A. Shrivastava, and P. Sankadiya, “Fabric defect detection and identification: A survey,” *International Journal of Advance Research in Science and Engineering*, vol. 6, no. 4, pp. 817–827, 2017.
- [18] M. T. Habib, R. H. Faisal, M. Rokonzaman, and F. Ahmed, “Automated fabric defect inspection: A survey of classifiers,” *International Journal in Foundations of Computer Science and Technology (IJFCST)*, vol. 4, no. 1, pp. 17–25, 2014.
- [19] K. Sakhare, A. Kulkarni, M. Kumbhakarn, and N. Kare, “Spectral and spatial domain approach for fabric defect detection and classification,” in *2015 International Conference on Industrial Instrumentation and Control (ICIC)*, Pune, India, 2015, pp. 640–644.
- [20] S. Convery, T. Lunney, A. Hashim, and M. McGinnity, “Automated fabric inspection,” *International Journal of Clothing Science and Technology*, vol. 6, no. 5, pp. 15–19, 1994.
- [21] A. Ranasinghe, S. Madurawala, J. Su, and S. C. Thushara, “An empirical investigation of labor shortage in the manufacturing sector in sri lanka,” Department of Accounting, Finance and Economics, Griffith University, 2016.
- [22] A. Basu, J. K. Chandra, P. K. Banerjee, S. Bhattacharyya, and A. K. Datta, “Sub image based eigen fabrics method using multi-class SVM classifier for the detection and classification of defects in woven fabric,” in *2012 Third International Conference on Computing, Communication and Networking Technologies (ICCCNT’12)*, 2012, pp. 1–6.
- [23] S. Priya, T. A. Kumar, and V. Paul, “A novel approach to fabric defect detection using digital image processing,” in *Proceedings of 2011 Interna-*

tional Conference on Signal Processing, Communication, Computing and Networking Technologies, 2011, pp. 228–232.

- [24] P. Sengottuvelan, A. Wahi, and A. Shanmugam, “Automatic fault analysis of textile fabric using imaging systems,” *Research Journal of Applied Sciences*, vol. 3, no. 1, pp. 26–31, 2008.
- [25] J. Huart and J. G. Postaire, “Integration of computer vision on to weavers for quality control in the textile industry,” in *Proceedings of SPIE*, 1994, pp. 155–163.
- [26] R. M. Haralick, K. Shanmugam, and I. Dinstein, “Textural features for image classification,” *IEEE Transactions on Systems, Man, and Cybernetics*, vol. SMC-3, no. 6, pp. 610–621, 1973.
- [27] Norton-Wayne, M. Bradshaw, and A. J. Jewell, “Machine vision inspection of web textile fabric,” in *Proceedings of the British Machine Vision Conference*, 1992, pp. 217–226.
- [28] R. Stojanovic, P. Mitropulos, C. Koulamas, Y. Karayiannis, S. Koubias, and G. Papadopoulos, “Real-time vision-based system for textile fabric,” *Real-Time Imaging*, vol. 7, no. 6, pp. 507–518, 2001.
- [29] M. Bradshaw, “The application of machine vision to the automated,” *Mechatronics*, vol. 5, no. 2/3, pp. 233–243, 1995.
- [30] J. S. Lane, “Textile fabric inspection system,” U.S. Patent 5774177, Jun. 1998.
- [31] A. Conci and C. B. Proenca, “A computer vision approach for textile,” *Textile Research Journal*, vol. 70, no. 4, pp. 347–350, 2000.
- [32] I. Tsai, C. Lin, and J. Lin, “Applying an artificial neural network to pattern recognition in fabric defects,” *Textile Research Journal*, vol. 65, no. 3, pp. 123–130, 1995.

- [33] A. L. Amet, A. Ertüzün, and A. Erçil, “Texture defect detection using subband domain co-occurrence matrices,” in *Proceedings of the 1998 IEEE Southwest Symposium on Image Analysis and Interpretation*, 1998, pp. 205–210.
- [34] R. N. Rösler, “Defect detection in fabrics by image processing,” *Melliand-Text.ber.*, vol. 73, p. E292, 1992.
- [35] C. N. Rao, S. S. Sastry, K. Mallika, H. S. Tiong, and K. B. Mahalakshmi, “Co-occurrence matrix and its statistical features as an approach for identification of phase transitions of mesogens,” *International Journal of Innovative Research in Science, Engineering and Technology*, vol. 2, no. 9, pp. 4531–4538, 2013.
- [36] F. Ade, N. Lins, and M. Unser, “Comparison of various filter sets for defect detection in textiles,” in *Proceedings of the 7th International Conference on Pattern Recognition*, 1984, pp. 428–431.
- [37] C. Neubauer, “Segmentation of defects in textile fabric,” in *Proceedings of the 11th International Conference on Pattern Recognition*, 1992, pp. 688–691.
- [38] F. Tajeripour, E. Kabir, and A. Sheikhi, “Fabric defect detection using modified local binary patterns,” *EURASIP Journal on Advances in Signal Processing*, no. 783898, pp. 1–12, 2008.
- [39] P. Li, X. Lin, J. Jing, and L. Zhang, “Defect detection in fabrics using local binary patterns,” *IGTA 2014: Advances in Image and Graphics Technologies*, vol. 437, pp. 274–283, 2014.
- [40] H. Sari-Sarraf and J. S. Goddard, “On-line optical measurement and monitoring of yarn density in woven fabrics,” in *Proceedings of SPIE*, 1996, pp. 444–452.

- [41] D. M. Tsai and T. Y. Huang, "Automated surface inspection for statistical textures," *Image and Vision Computing*, vol. 21, no. 4, pp. 307–323, 2003.
- [42] I. S. Tsai and M. C. Hu, "Automatic inspection of fabric defects using an artificial neural network technique," *Textile Research Journal*, vol. 18, no. 1, pp. 474–482, 1996.
- [43] J. G. Campbell and F. Murtagh, "Automatic visual inspection of woven textiles using a two-stage defect detector," *Optical Engineering*, vol. 37, no. 9, pp. 2536–2542, 1998.
- [44] C. W. Therrien, *Decision, Estimation, and Classification*. Wiley, 1989.
- [45] J. G. Campbell, A. A. Hasim, and F. D. Murtagh, "Flaw detection in woven textiles using space-dependent fourier transform," 1997.
- [46] A. Kumar and G. Pang, "Defect detection in textured materials using gabor filters," *IEEE Transactions on Industry Applications*, vol. 38, no. 2, pp. 425–440, 2002.
- [47] A. Bodnarova, M. Bennamoun, and S. J. Latham, "A constrained minimisation approach to optimise gabor filters for detecting flaws in woven textiles," in *2000 IEEE International Conference on Acoustics, Speech, and Signal Processing. Proceedings*, 2000, pp. 3606–3609.
- [48] A. Bodnarova, M. Bennamoun, and S. J. Latham, "Textile flaw detection using optimal gabor filters," in *Proceedings of the 15th International Conference on Pattern Recognition*, 2000, pp. 799–802.
- [49] A. Kumar and G. Pang, "Fabric defect segmentation using multi-channel blob detectors," *Optical Engineering*, vol. 39, no. 12, pp. 3176–3190, 2000.
- [50] A. Kumar and G. Pang, "Defect detection system for quality assurance using automated visual inspection," U.S. Patent 6753965, Jun. 2004.

- [51] H. Y. Jiang, M. Dong, and W. Li, “Detection of fabric defect based on optimal tree structure of wavelet decomposition,” in *2009 International Symposium on Intelligent Ubiquitous Computing and Education*, 2009, pp. 210–213.
- [52] H. Jiang, M. Dong, and W. Li, “The detection for fabric defect based on two-dimensional orthogonal wavelet,” in *2009 International Conference on Machine Learning and Cybernetics*, 2009, pp. 2470–2472.
- [53] S. Sadaghiyanfam, “Using gray-level-co-occurrence matrix and wavelet transform for textural fabric defect detection: A comparison study,” in *2018 Electric Electronics, Computer Science, Biomedical Engineerings’ Meeting (EBBT)*, Istanbul, 2018, pp. 23–27.
- [54] V. V. Karlekar, M. S. Biradar, and K. B. Bhangke, “Fabric defect detection using wavelet filter,” in *2015 International Conference on Computing Communication Control and Automation*, 2015, pp. 712–715.
- [55] T. I. Su, H. W. Chen, G. B. Hong, and C. M. Ma, “Automatic inspection system for defects classification of stretch knitted fabrics,” in *Proceedings of the 2010 International Conference on Wavelet Analysis and Pattern Recognition*, 2010, pp. 125–129.
- [56] S. G. Liu and P. G. Qu, “Inspection of fabric defects based on wavelet analysis and BP neural network,” in *2008 International Conference on Wavelet Analysis and Pattern Recognition*, Hong Kong, 2008, pp. 232–236.
- [57] L. Shuguang and Q. Pingge, “Fabric defects’ automatic inspection based on computer vision,” in *2nd International Congress on Image and Signal Processing*, 2009, pp. 1–5.
- [58] Z. Kang, C. Yuan, and Q. Yang, “The fabric defect detection technology based on wavelet transform and neural network convergence,” in *Proceeding of the IEEE International Conference on Information and Automation*, 2013, pp. 597–601.

- [59] S. Kim, M. H. Lee, and K. B. Woo, "Wavelet analysis to fabric defects detection in weaving processes," in *Proceedings of the IEEE International Symposium on Industrial Electronics*, 1999, pp. 1406–1409.
- [60] W. L. S. Jie, "Feature extraction and detection method of fabrics," China Patent 106203536, Aug. 2016.
- [61] F. S. Cohen and Z. Fan, "Rotation and scale invariant texture classification," in *Proceedings of the IEEE Conference on Robotics and Automation*, 1988, pp. 1394–1399.
- [62] R. Cross and A. K. Jain, "Markov random field texture models," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. PAMI-5, no. 1, pp. 25–39, 1983.
- [63] F. S. Cohen, Z. Fan, and S. Attali, "Automated inspection of textile fabrics using textural models," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 8, no. 13, pp. 803–808, 1991.
- [64] S. Ozdemir and A. Ercil, "Markov random fields and karhunen-loève transforms for defect inspection of textile products," in *Proceedings of the International Conference on Emerging Technologies and Factory Automation (EFAT)*, 1996, pp. 697–703.
- [65] G. Yunan, "Study on image analysis for fabric defects," Ph.D. dissertation, China Textile University, Shanghai, China, 1999.
- [66] S. F. Attali and F. S. Cohen, "Surface inspection based on stochastic modeling," in *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE)*, 1986, pp. 46–52.
- [67] D. P. Brzakovic, P. R. Bakic, N. S. Vuiuovic, and H. Sari-Sarraf, "A generalized development environment for inspection of web materials," in *Proceedings of the IEEE Conference on Robotics and Automation*, 1997, pp. 1–8.

- [68] D. Brzakovic, N. Vuiovic, and A. Liakopoulos, “An approach to quality control of texture web materials,” in *Proceedings of the SPIE*, 1995, pp. 60–69.
- [69] P. D. McNicholas, “Model-based clustering,” *Journal of Classification*, vol. 33, no. 3, pp. 331–373, 2016.
- [70] J. G. Campbell, C. Fraley, F. Murtagh, and A. E. Raftery, “Linear flaw detection in woven textiles using model-based clustering,” *Pattern Recognition Letters*, vol. 18, no. 14, pp. 1539–1548, 1997.
- [71] K. Y. Kong, J. Kittler, M. Petrou, and I. Ng, “Chromato-structural approach towards surface defect detection in random textured images,” in *Proceedings of the SPIE*, 1994, pp. 193–204.
- [72] A. Kumar, “Neural network based detection of local textile defects,” *Pattern Recognition Letters*, vol. 36, no. 7, pp. 1645–1659, 2003.
- [73] A. Kumar, “Automated defect detection in textured materials,” Ph.D. dissertation, The University of Hong Kong, Pokfulam, Hong Kong, 2001.
- [74] T. Maenpaa, M. Turtinen, and M. Pietikainen, “Real-time surface inspection,” *Real-Time Imaging*, vol. 9, no. 5, pp. 289–296, 2003.
- [75] C. C. Hung and I. C. Chen, “Neural-fuzzy classification for fabric,” *Textile Research Journal*, vol. 71, no. 3, pp. 220–224, 2001.
- [76] S. Y. Liu, L. D. Zhang, Q. Wang, and J. J. Liu, “BP neural network in classification of fabric defect based on particle swarm optimization,” in *Proceedings of the 2008 International Conference on Wavelet Analysis and Pattern Recognition*, 2008, pp. 30–31.
- [77] J. F. Jing, H. Ma, and H. H. Zhang, “Automatic fabric defect detection using a deep convolutional neural network,” *Coloration Technology*, vol. 135, no. 3, pp. 213–223, 2019.

- [78] S. Mei, Y. Wang, and G. Wen, “Automatic fabric defect detection with a multi-scale convolutional denoising autoencoder network model,” *Sensors (Basel)*, vol. 18, no. 4, pp. 1–18, 2018.
- [79] L. Weninger, M. Kopaczka, and D. Merhof, “Defect detection in plain weave fabrics by yarn tracking and fully convolutional networks,” in *2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC)*, 2008, pp. 1–6.
- [80] Y. Li, W. Zhao, and J. Pan, “Deformable patterned fabric defect detection with fisher criterion-based deep learning,” *IEEE Transactions on Automation Science and Engineering*, vol. 14, no. 2, pp. 1256–1264, 2017.
- [81] M. Behravan, R. Boostani, F. Tajeripour, and Z. Azimifar, “A hybrid scheme for online detection and classification of textural fabric defects,” in *2009 Second International Conference on Machine Vision*, 2009, pp. 118–122.
- [82] B. Julesz, “Textons, the elements of texture perception, and their interactions,” *Nature*, vol. 290, no. 5802, pp. 91–97, 1981.
- [83] T. Leung and J. Malik, “Representing and recognizing the visual appearance of materials using three-dimensional textons,” *International Journal of Computer Vision*, vol. 43, no. 1, pp. 29–44, 2001.
- [84] M. Li, Z. M. Deng, and L. Wang, “Defect detection of patterned fabric by spectral estimation technique and rough set classifier,” in *Conference: 2013 Fourth Global Congress on Intelligent Systems (GCIS)*, 2013, pp. 190–194.
- [85] G. Vladimir, I. Evgen, and N. L. Aung, “Automatic detection and classification of weaving fabric defects based on digital image processing,” in *2019 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering*, 2019, pp. 2218–2221.

- [86] M. M. Mottalib, M. T. Habib, M. Rokonuzzaman, and F. Ahmed, "Fabric defect classification with geometric features using Bayesian classifier," in *Proceedings of 2015 3rd International Conference on Advances in Electrical Engineering*, 2015, pp. 137–140.
- [87] V. Murino, M. Bicego, and I. A. Rossi, "Statistical classification of raw textile defects," in *2008 15th IEEE International Conference on Image Processing*, Cambridge, UK, 2004, pp. 311–314.
- [88] V. T. Hoang and A. Rebhi, "On comparing color spaces for fabric defect classification based on local binary patterns," in *2018 IEEE 3rd International Conference on Signal and Image Processing*, 2018, pp. 297–300.
- [89] L. Yueyang, J. Gaoming, C. Honglian, X. Febglin, and L. Haichi, "Fabric defect detection method based on single-classification support vector machine (SVM)," China Patent 106204543, Dec. 2016.
- [90] W. Li, S. Jie, and M. Xue, "Feature extraction and detection method for fabric defects," China Patent 106203536B, May. 2019.
- [91] R. Karayiannis, Stojanovic, P. Mitropoulos, C. Koulamas, T. Stouraitis, T. Koubias, and G. Papadopoulos, "Defect detection and classification on web textile fabric using multiresolution decomposition and neural networks," in *ICECS'99. Proceedings of ICECS '99. 6th IEEE International Conference on Electronics, Circuits and Systems (Cat. No.99EX357)*, Paphos, Cyprus, 1999, pp. 765–768.
- [92] J. Liu and B. Zuo, "The recognition of fabric defects using wavelet texture analysis and LVQ neural network," in *2009 2nd International Congress on Image and Signal Processing*, Tianjin, 2009, pp. 62–66.
- [93] B. Venkatesan, U. S. Ragupathy, P. Vidhyalakshmi, and B. Vinoth, "Inspection of faults in textile web materials using wavelets and ANFIS," in *2012 International Conference on Machine Vision and Image Processing (MVIP)*, 2012, pp. 189–192.

- [94] X. Yang, G. Pang, and N. Yung, “Fabric defect classification using wavelet frames and minimum classification error training,” in *Conference Record of the 2002 IEEE Industry Applications Conference. 37th IAS Annual Meeting (Cat. No.02CH37344)*, 2002, pp. 290–296.
- [95] X. Yang, G. Pang, and N. Yung, “Robust fabric defect detection and classification using multiple adaptive wavelets,” in *IEE Proceedings - Vision, Image and Signal Processing*, 2005, pp. 715–723.
- [96] C. Incorporated, “Standard fabric defect glossary,” <https://www.cottoninc.com/quality-products/textile-resources/fabric-defect-glossary>, accessed: 2019-01-30.
- [97] S. Jayade, D. T. Ingole, and M. D. Ingole, “Skin cancer detection using gray level co-occurrence matrix feature processing,” in *2020 5th International Conference on Devices, Circuits and Systems (ICDCS)*, 2020, pp. 49–53.
- [98] P. Katiyar and K. Singh, “A comparative study of lung cancer detection and classification approaches in CT images,” in *2020 7th International Conference on Signal Processing and Integrated Networks (SPIN)*, 2020, pp. 135–142.
- [99] D. A. Gustian, N. L. Rohmah, G. F. Shidik, A. Z. Fanani, and R. A. Pramunendar, “Classification of troso fabric using SVM-RBF multi-class method with GLCM and PCA feature extraction,” in *2019 International Seminar on Application for Technology of Information and Communication (iSemantic)*, 2019, pp. 7–11.
- [100] A. A. Hamdi, M. S. Sayed, M. M. Fouad, and M. M. Hadhoud, “Fully automated approach for patterned fabric defect detection,” in *2016 Fourth International Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC)*, 2016, pp. 48–51.

- [101] C. H. Chan and G. K. H. Pang, "Fabric defect detection by fourier analysis," *IEEE Transactions on Industry Applications*, vol. 36, no. 5, pp. 1267–1276, 2000.
- [102] J. Mohamed and S. Faouzi, "Fabric defect detection using image analysis," in *International Conference of Applied Research in Textile*, 2013, pp. 1–3.
- [103] S. Guan, "Fabric defect detection based on fusion technology of multiple algorithm," in *2010 2nd International Conference on Signal Processing Systems*, Dalian, 2010, pp. 553–557.
- [104] P. Gong, J. D. Marceau, and P. J. Howarth, "A comparison of spatial feature extraction algorithms for land-use classification with SPOT HRV data," *Remote Sensing of Environment*, vol. 40, pp. 137–151, 1992.
- [105] D. Clausi, "An analysis of co-occurrence texture statistics as a function of grey level quantization," *Canadian Journal of Remote Sensing*, vol. 28, no. 1, pp. 45–62, 2002.
- [106] A. Baraldi and F. Parmiggiani, "An investigation of the textural characteristics associated with gray level cooccurrence matrix statistical parameters," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 33, no. 2, pp. 293–304, 1995.
- [107] M. Umaselvi, S. S. Kumar, and M. Athithya, "Color based urban and agricultural land classification by GLCM texture features," in *IET Chennai 3rd International on Sustainable Energy and Intelligent Systems (SEISCON 2012)*, Tiruchengode, 2012, pp. 49–52.
- [108] A. Bodnarova, J. A. Williams, M. Bennamoun, and K. K. Kubik, "Optimal textural features for flaw detection in textile materials," in *TENCON '97 Brisbane - Australia. Proceedings of IEEE TENCON '97. IEEE Region 10 Annual Conference. Speech and Image Technologies for Computing and Telecommunications (Cat. No.97CH36162)*, Brisbane, 1997, pp. 307–310.

- [109] S. A. Cuenca and A. Camara, “New texture descriptor for high-speed web inspection applications,” in *Proceedings of the 2003 International Conference on Image Processing*, Barcelona, 2003, pp. 537–540.
- [110] M. Unser, “Texture classification and segmentation using wavelet frames,” *IEEE Transactions on Image Processing*, vol. 4, no. 11, pp. 1549–1560, 1995.
- [111] S. Borah, E. L. Hines, and M. Bhuyan, “Wavelet transform based image texture analysis for size estimation applied to the sorting of tea granules,” *Journal of Food Engineering*, vol. 79, no. 2, pp. 629–639, 2007.
- [112] S. Livens, P. Scheunders, V. D. Wouwer, and D. V. Dyck, “Wavelets for texture analysis, an overview,” in *Sixth International Conference on Image Processing and Its Applications*, Antwerp, 1997, pp. 581–585.
- [113] W. K. Wong, C. W. M. Yuen, D. D. Fan, L. K. Chan, and E. H. K. Fung, “Stitching defect detection and classification using wavelet transform and BP neural network,” *Expert Systems with Applications*, vol. 36, no. 2, pp. 3845–3856, 2009.
- [114] Y. Li and X. Di, “Fabric defect detection using wavelet decomposition,” in *2013 3rd International Conference on Consumer Electronics, Communications and Networks*, Xianning, 2013, pp. 308–311.
- [115] V. V. Karlekar and M. S. Biradar, “Genetic algorithm based wavelet filter for automatic fabric defect detection,” in *2015 International Conference on Computer, Communication and Control (IC4)*, Indore, 2015, pp. 54–59.
- [116] S. Guan, J. Yuan, and K. Ma, “Fabric defect detection based on wavelet reconstruction,” in *International Conference on Multimedia Technology*, Hangzhou, 2011, pp. 3520–3523.

- [117] S. Liu and P. Qu, “Fabric defects’ automatic inspection based on computer vision,” in *2009 2nd International Congress on Image and Signal Processing*, Tianjin, 2009, pp. 139–143.
- [118] H. Y. T. Ngan, G. K. H. Pang, S. P. Yung, and M. K. Ng, “Defect detection on patterned jacquard fabric,” in *32nd Applied Imagery Pattern Recognition Workshop, 2003. Proceedings*, Washington DC, 2003.
- [119] H. H. Yang and J. Moody, “Data visualization and feature selection: New algorithms for nongaussian data,” in *Advances in Neural Information Processing Systems*, 2000, pp. 687–693.
- [120] J. Suto, S. Oniga, and P. P. Sitar, “Comparison of wrapper and filter feature selection algorithms on human activity recognition,” in *2016 6th International Conference on Computers Communications and Control (ICCCC)*, 2016, pp. 124–129.
- [121] G. Brown, A. Pocock, M. J. Zhao, and M. Luján, “Conditional likelihood maximisation: A unifying framework for information theoretic feature selection,” *Journal of Machine Learning Research*, vol. 13, pp. 27–66, 2012.
- [122] M. B. Patel, J. J. Rodriguez, and A. F. Gmitro, “Effect of gray-level re-quantization on co-occurrence based texture analysis,” in *2008 15th IEEE International Conference on Image Processing*, San Diego, 2008, pp. 585–588.
- [123] A. S. Malek, “Online fabric inspection by image processing technology,” Ph.D. dissertation, Dept. Mech. Eng., University of Upper Alsace, Mulhouse, France, 2012.
- [124] K. Hanbay, M. F. Talu, O. F. Özgüven, and D. Öztürk, “Real-time detection of knitting fabric defects using shearlet transform,” *Tekstil ve Konfeksiyon*, vol. 29, no. 1, pp. 1–10, 2019.

- [125] Z. Musa, T. A. A. Kadir, and R. A. Bakar, "Textile web defect inspection by feature analysis method," in *Second International Conference on Innovative Computing, Information and Control (ICICIC 2007)*, Kumamoto, Japan, 2007, pp. 376–379.