



DAFTAR PUSTAKA

- [1] L. Ramirez, S. Member, N. G. Durdle, V. J. Raso, and D. L. Hill, “A Support Vector Machines Classifier to Assess the Severity of Idiopathic Scoliosis From Surface Topography,” *IEEE Trans. Inf. Technol. Biomed.*, vol. 10, no. 1, pp. 84–91, 2006.
- [2] H. M. Divecha, I. Siddique, L. M. Breakwell, and P. A. Millner, “Complications in spinal deformity surgery in the United Kingdom: 5-year results of the annual British Scoliosis Society National Audit of Morbidity and Mortality,” *Eur. Spine J.*, vol. 23, no. SUPPL. 1, 2014.
- [3] R. Kundu, P. Lenka, and R. Kumar, “Cobb Angle Quantification for Scoliosis Using Image Processing Techniques,” in *International Conference on Recent Advances and Future Trends in Information Technology*, 2012, pp. 6–11.
- [4] B. Samuvel, V. Thomas, M. M.G., and R. K. J., “A Mask Based Segmentation Algorithm for Automatic Measurement of Cobb Angle from Scoliosis X-Ray Image,” *2012 Int. Conf. Adv. Comput. Commun.*, pp. 110–113, Aug. 2012.
- [5] T. A. Sardjono, M. H. Wilkinson, A. G. Veldhuizen, P. M. van Ooijen, K. E. Purnama, and G. J. Verkerke, “Automatic Cobb Angle Determination from Radiographic Images,” *Spine (Phila. Pa. 1976)*, vol. 38, no. 20, p. 1, 2013.
- [6] M. Benjelloun, H. Tellez, S. Mahmoudi, M. Benjelloun, and H. Tellez, “Template Matching Method for Vertebra Region Selection,” in *Information and Communication Technologies*, 2006, pp. 1119–1124.
- [7] M. Benjelloun, H. Tellez, and S. Mahmoudi, “Vertebra Edge Detection Using Polar Signature,” *18th Int. Conf. Pattern Recognit.*, vol. 1, pp. 476–479, 2006.
- [8] R. Kundu, A. Chakrabarti, and P. K. Lenka, “Cobb Angle Measurement of Scoliosis with Reduced Variability,” in *MedImage*, 2012, pp. 1–6.
- [9] J. Zhang, E. Lou, L. H. Le, D. L. Hill, J. V Raso, and Y. Wang, “Automatic Cobb measurement of scoliosis based on fuzzy Hough Transform with vertebral shape prior.,” *J. Digit. Imaging*, vol. 22, no. 5, pp. 463–72, Oct.



2009.

- [10] S. Allen, E. Parent, M. Khorasani, D. L. Hill, E. Lou, and J. V. Raso, “Validity and reliability of active shape models for the estimation of Cobb angle in patients with adolescent idiopathic scoliosis,” *J. Digit. Imaging*, vol. 21, no. 2, pp. 208–218, 2008.
- [11] T. A. Sardjono, M. H. F. Wilkinson, P. M. A. Van Ooijen, and A. G. Veldhuizen, “Spinal Curvature Determination from an X-Ray Image Using a Deformable Model,” in *IFMBE*, 2007, vol. 15, pp. 291–295.
- [12] M. C. Wibowo, “Spinal Curvature Determination from X-Ray Image using GVF Snake,” in *International Conference on Information, Communication Technology and System*, 2015, pp. 35–40.
- [13] L. Duong, F. Cheriet, and H. Labelle, “Automatic detection of scoliotic curves in posteroanterior radiographs.,” *IEEE Trans. Biomed. Eng.*, vol. 57, no. 5, pp. 1143–51, May 2010.
- [14] M. B. Hisham, S. N. Yaakob, R. A. A. Raof, A. B. A. Nazren, and N. M. Wafi, “Template Matching Using Sum of Squared Difference and Normalized Cross Correlation,” in *Student Conference on Research and Development*, 2015, pp. 100–104.
- [15] R. Matungka, Y. F. Zheng, and R. L. Ewing, “Image Registration Using Adaptive Polar Transform,” *IEEE Trans. Image Process.*, vol. 18, no. 10, pp. 2340–2354, 2009.
- [16] N. Chockalingam, P. H. Dangerfield, G. Giakas, T. Cochrane, and J. C. Dorgan, “Computer-assisted Cobb measurement of scoliosis.,” *Eur. Spine J.*, vol. 11, no. 4, pp. 353–7, Aug. 2002.
- [17] R. Garg and A. Mittal, “A survey on techniques of vertebrae localization,” *2014 Recent Adv. Eng. Comput. Sci.*, pp. 1–4, Mar. 2014.
- [18] A. Tezmol, H. Sari-Sarraf, S. Mitra, R. Long, and A. Gururajan, “Customized Hough transform for robust segmentation of cervical vertebrae from X-ray images,” *Proc. Fifth IEEE Southwest Symp. Image Anal. Interpret.*, pp. 224–228, 2002.
- [19] D. Rolton, C. Nnadi, and J. Fairbank, “Scoliosis: a review,” *Paediatr. Child*



Health (Oxford)., vol. 24, no. 5, pp. 197–203, May 2014.

- [20] Raymond J. Gardocki, *Campbell's Operative Orthopaedics*, 13th ed. Elsevier Inc, 2017.
- [21] W. C. W. and B. A. W. Nicolas V. Jaumard, Peter P. Syré, *DeLee & Drez's Orthopaedic Sports Medicine*, 4th ed. Elsevier Inc, 2015.
- [22] M. Shaw, C. J. Adam, M. T. Izatt, P. Licina, and G. N. Askin, “Use of the iPhone for Cobb angle measurement in scoliosis.,” *Eur. Spine J.*, vol. 21, no. 6, pp. 1062–8, Jun. 2012.
- [23] M. M. Adankon, J. Dansereau, H. Labelle, and F. Cheriet, “Artificial Intelligence in Medicine Non invasive classification system of scoliosis curve types using least-squares support vector machines,” *Artif. Intell. Med.*, vol. 56, no. 2, pp. 99–107, 2017.
- [24] P. N. and D. C. W. Molly E. Dempsey, *Tachdjian's Pediatric Orthopaedics*, 5th ed. Elsevier Inc, 2014.
- [25] Samsung, “Mobile Digital X-ray GM60A,” 2017. [Online]. Available: <http://www.samsung.com/global/business/healthcare/healthcare/digital-radiography/DGR-M3AS9D/WR>. [Accessed: 27-Feb-2017].
- [26] H. A. R. De Santiago *et al.*, “The influence of vision and support base on balance during quiet standing in patients with adolescent idiopathic scoliosis before and after posterior spinal fusion,” *Spine J.*, vol. 13, no. 2013, pp. 1470–1476, 2017.
- [27] H. Takanashi *et al.*, “Development of Next Generation Apparatus for Measurement of Curve Degree in Idiopathic Scoliosis,” in *International Conference on Advanced Mechatronic Systems*, 2012, pp. 597–602.
- [28] D. Mauroy, J. C. De Mauroy, C. Lecante, F. Barral, and S. Pourret, “Prospective study and new concepts based on scoliosis detorsion of the first 225 early in-brace radiological results with the new Lyon brace : ARTbrace Prospective study and new concepts based on scoliosis detorsion of the first 225 early in-brace radiolo,” *Scoliosis Spinal Disord.*, vol. 9, pp. 1–18, 2014.
- [29] J. Chowanska, T. Kotwicki, K. Rosadzinski, and Z. Sliwinski, “School screening for scoliosis : can surface topography replace examination with



scoliometer ?,” *Scoliosis Spinal Disord.*, vol. 7, no. 9, pp. 1–7, 2012.

- [30] J. Mo and M. Jezer, “Determination of the human spine curve based on laser triangulation,” *BMC Med. Imaging*, vol. 15, pp. 1–11, 2015.
- [31] E. M. T. V. Suhartono, and O. D. Nurhayati, *Teori Pengolahan Citra Digital*. Yogyakarta: Andi Publisher, 2009.
- [32] R. C. Gonzales and R. E. Woods, *Digital image processing 3rd edition*, 3rd ed. Prentice Hall International, 2010.
- [33] S. Omachi and M. Omachi, “Fast Template Matching With Polynomials,” *IEEE Trans. Image Process.*, vol. 16, no. 8, pp. 2139–2149, 2007.
- [34] A. Kadir and A. Susanto, *Teori dan Aplikasi Pengolahan Citra*, 1st ed. Yogyakarta: Andi Publisher, 2013.
- [35] C. Ji, X. Yang, and W. Wang, “A Novel Method for Image Recognition Based on Polynomial Curve Fitting,” *2015 8th Int. Symp. Comput. Intell. Des.*, pp. 354–357, 2015.
- [36] A. C. Jalba, M. H. F. Wilkinson, J. B. T. M. Roerdink, and S. Member, “CPM : A Deformable Model for Shape Recovery and Segmentation Based on Charged Particles,” *IEEE Trans. PATTERN Anal. Mach. Intell.*, vol. 26, no. 10, pp. 1320–1335, 2004.