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surface rendering

volume rendering

voxel

VTK Visualization Toolkit

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[1] Abhir Bhalerao, Hanspeter Pfister, Michael Halle, Ron Kikinis, " Fast Re-Rendering Of Volume and Surface Graphics By Depth, Color, and Opacity Buffering," Medical Image Analysis, Volume 4, Number 3, pp. 235-251(17), 2000.

[2] Roberts, J.C., " An Overview of Rendering from Volume Data including Surface and Volume Rendering," Technical Report 13, Computer Science at Kent, University of Kent, Canterbury, UK, 1993.

[3] Kitware Inc., " The Visualization Toolkit," U.S.A., Kitware Inc., 2004.

[4] Lorensen, W.E., Cline, H.E., " Marching cubes: A High Resolution 3D Surface Construction Algorithm," Computer Graphics, Volume 21, Number 4, pp. 163-169, 1987.

[5] Suya, You, Lichan, Hong, Ming, Wan, Junyaprasert, K., Kaufman, A., Muraki, S., Yong, Zhou, Wax, M., Zhengrong, Liang, " Interactive volume rendering for virtual colonoscopy," IEEE Visualization, pp. 433-436, 1997.

[6] Ooijen, P. M. A. van, van Geuns, R. J. M., Rensing, B. J. W. M., Bongaerts, A. H. H. de, Feyter, P. J., Oudkerk, M., " Noninvasive Coronary Imaging Using Electron Beam CT: Surface Rendering Versus Volume Rendering," American journal of roentgenology, Volume 180, pp. 223-226, 2003.

[7] Summers, RM, Feng, DH, Holland, SM, Sneller, MC, Shelhamer, JH, " Virtual Bronchoscopy Segmentation Method for Real-Time Display, " Radiology, Volume 200, pp. 857-862, 1996.

[8] Christian, Tietjen, Tobias, Isenberg, Bernhard, Preim, " Combining Silhouettes, Surface, and Volume Rendering for Surgery Education and Planning," IEEE VGTC Symposium on Visualization, 2005.

[9] Chen, D., Wax, M.R., Li, L., Liang, Z., Li, B., Kaufman, A.E., " A Novel Approach to Extract Colon Lumen from CT Images for Virtual Colonoscopy," IEEE Transactions on Medical Imaging, Volume 19, Number 12, pp. 1220-1226, 2000.

[10] Ramin, Shahidi, " Surface Rendering versus Volume Rendering in Medical Imaging: Techniques and Applications," IEEE Visualization, pp. 439-440, 1996.

[11] Wei, Li, Arie, Kaufman, Kevin, Kreeger, " Real-Time Volume Rendering for Virtual Colonoscopy," Volume Graphics, 2001.

[12] Kitware Inc., " The VTK User's Guide," U.S.A., Kitware Inc., 2004.

[13] Sato, M., Lakare, S., Wan, M., Kaufman, A.E., Liang, Z., Wax, M.R., " An Automatic Colon Segmentation for 3D Virtual Colonoscopy," IEICE Transactions on Information and Systems, E84-D(1), pp. 201-208, 2001.

[14] , " " , , , , 193-196, 94

[15] Ko, C.C., Jang, J.W., " Interactive Polyp Biopsy based on Automatic Segmentation of Virtual Colonoscopy," Proceedings of the Fourth IEEE Symposium on Bioinformatics and Bioengineering, pp. 159-166, 2004.

[16] Hong, L., Kaufman, A., Wei, Y.C., Viswambharan A., Wax M., Liang Z., " 3D Virtual Colonoscopy," Proceedings of the 1995 Biomedical Visualization, pp. 26-32, 1995.

[17] Lee, T.Y., Lin, P.H., Lin, C.H., Sunm, Y.N., Lin, X.Z., " Interactive 3-D Virtual Colonoscopy System," IEEE Trans on Information Technology in Biomedicine, Volume 3, Number 2, pp. 139-150, 1999.

[18] Ronald, M. Summers, Christopher, F. Beaulieu, Lynne, M. Pusanik, MEng. James, D. Malley, R. Brooke Jeffrey, Jr, Daniel, I. Glazer, Sandy, Napel, " Automated Polyp Detector for CT Colonography : Feasibility Study. Radiology," 216:284– 290, 2000.

[19] Yoshida, H., Nappi, J., MacEneaney, P., Rubin, D.T., Dachman, A.H., " Computer-aided Diagnosis Scheme for Detection of Polyps at CT Colonography," Radio Graphics, Volume 22, Number 4, pp. 963-979, 2002.