

7

Referências bibliográficas

BEALL, M. W.; SHEPHARD, M. S. **A general topology-based mesh data structure**, International Journal for Numerical Methods in Engineering, 40(9), p. 1573-1596, 1997.

BERNARDON, F. F.; PAGOT, C. A.; COMBA, J. L. D.; SILVA, C. T.; **GPU-Tiled Ray Casting using Depth Peeling**. Technical Report, SCI Institute, University of Utah, 2004.

BLINN, J. **Light Reflection Functions for Simulation of Clouds and Dusty Surfaces**. ACM SIGGRAPH, Computer Graphics, 16(3), p. 21-29, julho de 1982.

BLINN, J. Jim Blinn's Corner - **Compositing, Part I: Theory**. IEEE Computer Graphics and Applications, 14(5), p. 83-87, 1994.

BUNYK, P.; KAUFMAN, A. E.; SILVA, C. T. **Simple, fast, and robust ray casting of irregular grids**. In: Proceedings of Dagstuhl '97, p. 30-36, 1997.

CARPENTER, L. **The A-Buffer, an Antialiased Hidden Surface Method**. In: Computer Graphics, Proceedings of SIGGRAPH '84, p. 103-108, julho de 1984.

CELES, W.; MARTHA, L. F.; GATTASS, M. **Pós-processador Genérico de Elementos Finitos**. XI Congresso Íbero Latino Americano sobre Mét. Comp. para Engenharia, p. 569-577, 1990

CELES, W.; PAULINO, G. H.; ESPINHA, R. **A compact adjacency-based topological data structure for finite element mesh representation**. Aceito para publicação no International Journal for Numerical Methods in Engineering, julho de 2004.

CHOPRA, P.; MEYER, J. **Incremental Slicing Revisited: Accelerated Volume Rendering Of Unstructured Meshes**. In: Proceedings of IASTED Visualization, Imaging and Image Processing 2002, Malaga, Espanha, setembro de 2002.

CIGNONI, P.; DE FLORIANI, L. **Power Diagram Depth Sorting**. In: Proceedings of the 10th Canadian Conference on Computational Geometry, 1998.

COMBA, J.; DIETRICH, C.; PAGOT, C.; SCHEIDEGGER, C. **Computation on GPUs: from a programmable pipeline to an efficient stream processor**. Revista de Informática Teórica e Aplicada, v. 10, n. 1, p. 41-70, 2003.

COMBA, J., KLOSOWSKI, J.; MAX, N.; MITCHELL, J. S. B., SILVA, C.; WILLIAMS, P. **Fast Polyhedral Cell Sorting for Interactive Rendering of Unstructured Grids**. Computer Graphics Forum. Vol. 18, p. 367-376, 1999.

COOK, R.; MAX, N.; SILVA, C. T.; WILLIAMS, P. L. **Image-Space Visibility Ordering for Cell Projection Volume Rendering of Unstructured Data**. In: IEEE Transactions on Visualization and Computer Graphics. Vol. 10, No. 6, novembro de 2004.

DE BERG, M.; VAN KREVELD, M.; OVERMARS, M.; SCHWARZKOPF, O. **Computational Geometry**. 2ª edição, Springer-Verlag, Berlim: 2000.

DREBIN, R. A.; CARPENTER L.; HANRAHAN P. **Volume rendering**. In: Proceedings of SIGGRAPH '88, 1988. p. 65-74.

ENGEL, K.; KRAUS, M.; ERTL, T. **High-Quality Pre-Integrated Volume Rendering Using Hardware-Accelerated Pixel Shading**. Proceedings of Eurographics/SIGGRAPH Workshop on Graphics Hardware '01, pp.9-16, 2001.

EVERITT, C.; **Interactive Order-Independent Transparency**. Technical Report. http://www.nvidia.com/object/Interactive_Order_Transparency.html. 2001. Acesso em: 18 de fevereiro de 2005.

FARIAS, R.; MITCHELL, J.; SILVA, C. **ZSWEEP: An Efficient and Exact Projection Algorithm for Unstructured Volume Rendering**. In: Proceedings 2000 Volume Visualization Symposium, pp. 91-99, outubro de 2000.

FOLEY, J. D.; DAM, A. van; FEINER, S. K.; HUGHES, J. F. **Computer Graphics: Principles and Practice**. Addison-Wesley, Reading, MA, second edition, 1997.

GARIMELLA, R. V., **Mesh data structure selection for mesh generation and FEA applications**. In: International Journal for Numerical Methods in Engineering, 55:451-478, 2002.

GARRITY, M. P. **Raytracing Irregular Volume Data**. In: Proceedings of the 1990 Workshop on Volume Visualization, ACM Press, p. 35-40, 1990.

GUTHE, S., ROETTGER, S., SCHIEBER, A., STRASSER, W., ERTL, T. **High-quality unstructured volume rendering on the PC platform**. In: Proceedings of ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware, Eurographics Association, p. 119-125, 2002.

HADWIGER, M.; KNISS, J. M.; ENGEL K.; REZK-SALAMA C. **High-Quality Volume Graphics on Consumer Graphics Hardware**. Course Notes 42, SIGGRAPH'2002, San Antonio: 2002.

HUNG, C. M.; BUNING, P. G. **Blunt Fin data set**. 1990. <http://www.nas.nasa.gov/Research/Datasets/Hung/index.shtml>. Acesso em: 17 de fevereiro de 2005.

KINDLMANN, G.; DURKIN, J. W. **Semi-automatic generation of transfer functions for direct volume rendering**. In: Proceedings of the 1998 IEEE Symposium on Volume Visualization, p. 79-86, outubro de 1998.

KNISS, J.; KINDLMANN, G.; HANSEN, C. **Multidimensional Transfer Functions for Interactive Volume Rendering**. In: IEEE Transactions on Visualization and Computer Graphics. Vol. 8, no. 3, p. 270-285, julho de 2002.

KRAUS, M.; ERTL, T.; **Cell Projection of Cyclic Meshes**. In Proceedings of IEEE Visualization 2001. p. 215-222, 2001.

KRÜGER, W. **The Application of Transport Theory to Visualization of 3D Scalar Data Fields**. In: Computational Physics, Vol. 5, No. 4, p. 397-406, 1991.

LEFOHN, A.; BUCK, I.; OWENS, J. D.; STRZODKA, R. **GPGPU: General-Purpose Computation on Graphics Processors**. In: Proceedings of IEEE Visualization 2004. Tutorial no. 3. Outubro de 2004.

MALTA, I.; PESCO, S.; LOPES, H. **Cálculo a uma variável – Volume II – Derivada e Integral**, Rio de Janeiro: Editora PUC-Rio, 2002.

MAX, N. **Optical models for direct volume rendering**. In: IEEE Transactions on Visualization and Computer Graphics, 1(2):99-108, 1995.

MORELAND, K.; ANGEL, E. **A Fast High Accuracy Volume Renderer for Unstructured Data**. Proceedings of IEEE Symposium on Volume Visualization and Graphics 2004, p. 9-16, Austin, Texas, USA, outubro de 2004.

NAS – NASA Advanced Supercomputing Division. <http://www.nas.nasa.gov>. Acesso em 17 de fevereiro de 2005.

NOVINS, K.; ARVO, J. **Controlled Precision Volume Integration**. 1992 Workshop on Volume Visualization, ACM, 1992.

NVIDIA CORPORATION. **Cg Toolkit User's Manual: A Developer's Guide to Programmable Graphics**. Release 1.2, janeiro de 2004. Disponível em: http://www.nvidia.com/object/cg_toolkit.html. Acesso em 24 jan. 2005.

NVIDIA CORPORATION. **NVIDIA GPU Programming Guide Version 2.2.1**. NVidia Corporation, novembro de 2004. Disponível em: http://www.nvidia.com/object/gpu_programming_guide.html. Acesso em: 20 jan. 2005.

OPENGL ARB. **OpenGL® - The Industry Standard for High Performance Graphics**. <http://www.opengl.org>. Acesso em 24 jan. 2005.

PAIVA, A. C.; SEIXAS, R. B.; GATTASS, M. **Introdução à Visualização Volumétrica**. Departamento de Informática, PUC-Rio, Inf. MCC03/99, Rio de Janeiro, 1999.

PORTER T.; DUFF T. **Compositing Digital Images**. Computer Graphics (Proceedings of SIGGRAPH, Col. 18, No. 3, p. 253-259, julho de 1984.

REMACLE, J. F.; SHEPHARD, M. S. **An algorithm oriented mesh database**. In: International Journal for Numerical Methods in Engineering, 58, p. 349-374, 2003.

ROETTGER, S.; KRAUS, M.; ERTL, T. **Hardware-accelerated volume and isosurface rendering**. In: Proceedings of Visualization '00, p. 109-116, 2000.

ROETTGER, S.; ERTL, T. **A two-step approach for interactive pre-integrated volume rendering of unstructured grids**. In: Proceedings of the 2002 IEEE Symposium on Volume Visualization and Graphics, p. 23-28, 2002.

ROGERS, S. E.; KWAK, D.; KAUL, U. **Liquid Oxygen Post**. Data set. 1986. <http://www.nas.nasa.gov/Research/Datasets/Rogers/index.shtml>. Acesso em: 17 de fevereiro de 2005.

SHIRLEY P.; TUCHMAN A. **A Polygonal Approximation to Direct Scalar Volume Rendering**. Computer Graphics, 24(5), p. 63-70, dezembro de 1990.

SILVA, P. M. **Visualização Volumétrica de Horizontes em Dados Sísmicos 3D**. Tese de Doutorado em Informática, Pontifícia Universidade Católica do Rio de Janeiro, Rio de Janeiro, julho de 2004.

SILVA, C.; MITCHELL, J. S. B.; WILLIAMS, P. **An Exact Interactive Time Visibility Ordering Algorithm for Polyhedral Cell Complexes**. In: Proceedings of ACM Symposium on Volume Visualization, p. 87-94, outubro de 1998.

SPERAY, D.; KENNON S. **Volume Probes: Interactive Data Exploration on Arbitrary Grids**. Proceedings of San Diego Workshop on Volume Visualization, Computer Graphics, 24(5), p. 5-12, dezembro de 1990.

STEIN, C.; BECKER, B.; MAX, N. **Sorting and Hardware Assisted Rendering for Volume Visualization**. In: Proceedings of SIGGRAPH Symposium on Volume Visualization, p. 83-90, outubro de 1994.

WEILER, K. **The Radial Edge Structure: A Topological Representation for Non-Manifold Geometric Boundary Modeling**. Geometric Modeling for CAD Applications, p. 3-36, 1988.

WEILER, M.; KRAUS, M.; ERTL, T. **Hardware-Based View-Independent Cell Projection**. In: Proceedings of IEEE Symposium on Volume Visualization 2002, p. 13-22, 2002.

WEILER, M.; KRAUS, M.; MERZ, M.; ERTL, T. **Hardware-Based Ray Casting for Tetrahedral Meshes**. In: Proceedings of IEEE Visualization '03, p. 333-340. IEEE, 2003.

WEILER, M.; KRAUS, M.; MERZ, M.; ERTL, T. **Hardware-Based View-Independent Cell Projection**. In: IEEE Transactions on Visualization and Computer Graphics (Special Issue on IEEE Visualization 2002), 9(2), p. 163-175, junho de 2003.

WEILER, M.; MALLÓN, P. N.; KRAUS, M.; ERTL, T. **Texture-Encoded Tetrahedral Strips**. In: Proceedings Symposium on Volume Visualization 2004, p. 71-78, 2004.

WILHELMS, J.; VAN GELDER, A.; **A Coherent Projection Approach for Direct Volume Rendering**. IEEE Computer Graphics, vol. 25, no. 4, p. 275-284, julho de 1991.

WILLIAMS, P. **Visibility Ordering Meshed Polyhedra**. ACM Transactions on Graphics, 11(2), p. 103-125, abril de 1992.

WILLIAMS, P.; MAX, N. **A volume density optical model**. Proceedings of the 1992 Workshop on Volume Visualization, p. 61-68. Boston, outubro de 1992.

WILLIAMS, P. L.; MAX, N. L.; STEIN, C. M. **A High Accuracy Volume Renderer for Unstructured Data**. IEEE Transactions on Visualization and Computer Graphics, Vol. 4, No. 1, p. 37-54, março de 1998.

WITTENBRINK, C. **R-Buffer: A Pointerless A-Buffer Hardware Architecture**. In: Proceedings of ACM-Eurographics Workshop on Graphics Hardware, p. 73-80, 2001.

WITTENBRINK, C. M.; MALZBENDER, T; GOSS, M. E. **Opacity-Weighted Color Interpolation for Volume Sampling**. In: Proceeding of the 1998 Symposium on Volume Visualization, p. 135-142, outubro de 1998.

WYLIE, B.; MORELAND, M.; FISK, L. A.; CROSSNO, P. **Tetrahedral Projection using Vertex Shaders**. In: Proceedings of the IEEE Symposium of Volume Visualization 2002, p. 13-22, 2002.

YAGEL, R.; REED, D. M.; LAW, A.; SHIH, P.; SHAREEF, N. **Hardware Assisted Volume Rendering of Unstructured Grids by Incremental Slicing**. In: ACM Symposium of Volume Visualization '96. p. 55-63, 1996.