

- [1] ABRAHAM, F.; CELES, W. **Distributed Visualization of Complex Black Oil Reservoir Models**. Em: EUROGRAPHICS SYMPOSIUM ON PARALLEL GRAPHICS AND VISUALIZATION (EGPGV09), p. 87–94. Eurographics Association, 2009.
- [2] ABRAHAM, F. R.; CELES, W.; CERQUEIRA, R. ; ELIAS, J. L. **A Load-balancing Strategy for Sort-First Distributed Rendering**. Em: PROCEEDINGS OF SIBGRAPI 2004. IEEE Computer Society, Out. 2004.
- [3] AGARWAL, P. K.; SURI, S. **Surface Approximation and Geometric Partitions**. Em: PROCEEDINGS OF THE FIFTH ANNUAL ACM-SIAM SYMPOSIUM ON DISCRETE ALGORITHMS, SODA '94, p. 24–33. Society for Industrial and Applied Mathematics, 1994.
- [4] AKENINE-MÖLLER, T.; HAINES, E. ; HOFFMAN, N. **Real-Time Rendering 3rd Edition**. Natick, MA, USA: A. K. Peters, Ltd., 2008, 1045p.
- [5] ASSARSSON, U.; MÖLLER, T. Optimized View Frustum Culling Algorithms for Bounding Boxes, **Journal of Graphics Tools**, v.5, n.1, p. 9–22, 2000.
- [6] BAPTISTA, R. **Higher Accuracy Quantized Normals**. http://www.gamedev.net/page/resources/_/reference/programming/sweet-snippets/higher-accuracy-quantized-normals-r1252, acessado em Agosto de 2011.
- [7] BITTNER, J.; WIMMER, M.; PIRINGER, H. ; PURGATHOFER, W. Coherent Hierarchical Culling: Hardware Occlusion Queries Made Useful, **Eurographics 2004**, v.23, n.3, p. 615–624, 2004.
- [8] BLACKER, T. D.; STEPHENSON, M. B. Paving: A New Approach to Automated Quadrilateral Mesh Generation, **International Journal for Numerical Methods in Engineering**, v.32, n.4, p. 811–847, 1991.
- [9] BLINN, J. Calculating Screen Coverage, **Computer Graphics and Applications**, IEEE, v.16, n.3, p. 84–88, Maio 1996.

- [10] BORGEAT, L.; GODIN, G.; BLAIS, F.; MASSICOTTE, P. ; LAHANIER, C. **GoLD: Interactive Display of Huge Colored and Textured Models**, *ACM Transactions on Graphics*, v.24, n.3, p. 869–877, 2005.
- [11] CARL ERIKSON; DINESH MANOCHA ; WILLIAM BAXTER III. **HLODs for Faster Display of Large Static and Dynamic Environments**. Em: SYMPOSIUM ON INTERACTIVE 3D GRAPHICS, p. 111–120. ACM Press, 2001.
- [12] CAVIN, X.; MION, C. **Pipelined Sort-Last Rendering: Scalability, Performance and Beyond**. Em: EUROGRAPHICS SYMPOSIUM ON PARALLEL GRAPHICS AND VISUALIZATION (EGPGV06). Eurographics Association, 2006.
- [13] CAVIN, X.; MION, C. ; FILBOIS, A. **COTS Cluster-based Sort-Last Rendering: Performance Evaluation and Pipelined Implementation**. Em: IEEE VISUALIZATION, p. 111–118. IEEE Computer Society Press, 2005.
- [14] CELES, W.; ABRAHAM, F. **Texture-Based Wireframe Rendering**. Em: PROCEEDINGS OF SIBGRAPI 2010, p. 149–155, Setembro 2010.
- [15] CELES, W.; ABRAHAM, F. **Fast and Versatile Texture-Based Wireframe Rendering**, *The Visual Computer*, v.27, p. 939–948, 2011.
- [16] CELES, W.; PAULINO, G. H. ; ESPINHA, R. **A Compact Adjacency-based Topological Data Structure for Finite Element Mesh Representation**, *International Journal for Numerical Methods in Engineering*, v.64, n.11, p. 1529–1565, 2005.
- [17] CIGNONI, P.; GANOVELLI, F.; GOBBETTI, E.; MARTON, F.; PONCHIO, F. ; SCOPIGNO, R. **BDAM - Batched Dynamic Adaptive Meshes for High Performance Terrain Visualization**, *Computer Graphics Forum*, v.22, p. 505–514, 2003.
- [18] CIGNONI, P.; GANOVELLI, F.; GOBBETTI, E.; MARTON, F.; PONCHIO, F. ; SCOPIGNO, R. **Adaptive Tetrapuzzles: Efficient Out-of-core Construction and Visualization of Gigantic Multiresolution Polygonal Models**. Em: SIGGRAPH '04: INTERNATIONAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 796–803. ACM Press, 2004.

- [19] CIGNONI, P.; GANOVELLI, F.; GOBBETTI, E.; MARTON, F.; PONCHIO, F. ; SCOPIGNO, R. **Batched Multi Triangulation**. Em: IEEE VISUALIZATION, p. 207–214. IEEE Computer Society Press, Outubro 2005.
- [20] DAKE, L. P. **Fundamentals of Reservoir Engineering**. Elsevier Science, 1978.
- [21] DANIELS, J.; SILVA, C. T.; SHEPHERD, J. ; COHEN, E. Quadrilateral Mesh Simplification, **ACM Transactions on Graphics**, v.27, p. 148:1–148:9, Dez. 2008.
- [22] ESPINHA, R. **Visualização Volumétrica Interativa de Malhas Não-estruturadas Utilizando Placas Gráficas Programáveis**. 2005. Dissertação de Mestrado - Pontifícia Universidade Católica do Rio de Janeiro.
- [23] FREY, W. H.; FIELD, D. A. Mesh Relaxation. A New Technique for Improving Triangulations, **International Journal for Numerical Methods in Engineering**, v.31, p. 1121–1133, 1991.
- [24] GARLAND, M.; HECKBERT, P. S. **Surface Simplification Using Quadric Error Metrics**. Em: SIGGRAPH '97: PROCEEDINGS OF THE 24TH ANNUAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 209–216. ACM Press, 1997.
- [25] GOBBETTI, E.; KASIK, D. ; YOON, S.-E. **Technical Strategies for Massive Model Visualization**. Em: Proceedings of the 2008 ACM Symposium on Solid and Physical Modeling, p. 405–415. ACM Press, 2008.
- [26] HOPPE, H. **Progressive Meshes**. Em: SIGGRAPH '96: INTERNATIONAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 99–108. ACM Press, 1996.
- [27] HOPPE, H. **View-dependent Refinement of Progressive Meshes**. Em: SIGGRAPH '97: INTERNATIONAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 189–198. ACM Press/Addison-Wesley Publishing, 1997.
- [28] HOPPE, H. **New Quadric Metric for Simplifying Meshes with Appearance Attributes**. Em: IEEE VISUALIZATION, p. 59–66. IEEE Computer Society Press, 1999.
- [29] HUMPHREYS, G.; ELDRIDGE, M.; BUCK, I.; STOLL, G.; EVERETT, M. ; HANRAHAN, P. **WireGL: A Scalable Graphics System for**

- Clusters.** Em: PROCEEDINGS OF THE ANNUAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 129–140, 2001.
- [30] HUMPHREYS, G.; HOUSTON, M.; NG, R.; FRANK, R.; AHERN, S.; KIRCHNER, P. D. ; KLOSOWSKI, J. T. **Chromium: A Stream-Processing Framework for Interactive Rendering on Clusters.** Em: PROCEEDINGS OF THE ANNUAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 693–702, 2002.
- [31] LÜBKE, D. P. A Developer's Survey of Polygonal Simplification Algorithms, **IEEE Computer Graphics and Applications**, v.21, p. 24–35, Mai 2001.
- [32] LÜBKE, D. P.; REDDY, M.; COHEN, J. D.; VARSHNEY, A.; WATSON, B. ; HÜBNER, R. **Level of Detail for 3D Graphics.** Morgan Kaufmann, 2002.
- [33] MA, K.-L.; PAINTER, J. S.; HANSEN, C. D. ; KROGH, M. F. Parallel Volume Rendering Using Binary-swap Compositing, **IEEE Computer Graphics and Applications**, v.14, n.4, p. 59–68, 1994.
- [34] MAGALHÃES, L. G. **Multi-resolução de geometria de terrenos armazenados em memória secundária.** 2005. Dissertação de Mestrado - Pontifícia Universidade Católica do Rio de Janeiro.
- [35] MARCHESIN, S.; MONGENET, C. ; DISCHLER, J. **Multi-GPU Sort-Last Volume Visualization.** Em: EUROGRAPHICS SYMPOSIUM ON PARALLEL GRAPHICS AND VISUALIZATION (EGPGV08), p. 1–8. Eurographics Association, Abril 2008.
- [36] MATTAUSCH, O.; BITTNER, J. ; WIMMER, M. CHC++: Coherent Hierarchical Culling Revisited, **Computer Graphics Forum**, v.27, n.2, p. 221–230, 2008.
- [37] MOLNAR, S.; COX, M.; ELLSWORTH, D. ; FUCHS, H. A Sorting Classification of Parallel Rendering, **IEEE Computer Graphics & Applications**, v.14, n.4, p. 23–32, 1994.
- [38] NVIDIA's Quadro Plex. <http://www.nvidia.com/page/quadroplex.html>, acessado em Agosto de 2011.
- [39] NVIDIA's SLI Zone. <http://www.slizone.com>, acessado em Agosto de 2011.

- [40] OBERHUMER, M. F. X. J. **LZO Data Compression Library**. <http://www.oberhumer.com/opensource/lzo>, acessado em Agosto de 2011.
- [41] PAULO IVSON; WALDEMAR CELES. **Técnicas de Otimização para Visualização de Modelos Massivos**. Technical report, Pontifícia Universidade Católica do Rio de Janeiro, 2006.
- [42] PETER LINDSTROM. **Out-of-core Construction and Visualization of Multiresolution Surfaces**. Em: SYMPOSIUM ON INTERACTIVE 3D GRAPHICS, p. 93–102. ACM Press, 2003.
- [43] PINHEIRO, S.; VELHO, L. **A Virtual Memory System for Real-Time Visualization of Multi-resolution 2D Objects**. Em: WSCG'02, p. 365–372, 2002.
- [44] PORTER, T.; DUFF, T. **Compositing Digital Images**. Em: SIGGRAPH '84: PROCEEDINGS OF THE 11TH ANNUAL CONFERENCE ON COMPUTER GRAPHICS AND INTERACTIVE TECHNIQUES, p. 253–259. ACM Press, 1984.
- [45] **Saudi Aramco Completes First Giga-Cell Reservoir Simulation Run**. http://www.rigzone.com/news/article.asp?a_id=70015, acessado em Agosto de 2011.
- [46] VAN DER SCHAAF, T.; RENAMBOT, L.; GERMANS, D.; SPOELDER, H. ; BAL, H. **Retained Mode Parallel Rendering for Scalable Tiled Displays**. Em: PROCEEDINGS OF THE IMMERSIVE PROJECTION TECHNOLOGY WORKSHOP, Orlando, Florida, Março 2002.
- [47] SHAFFER, E.; GARLAND, M. **A Multiresolution Representation for Massive Meshes**, *IEEE Transactions on Visualization and Computer Graphics*, v.11, n.2, p. 139–148, 2005.
- [48] SHEPHERD, J. F.; DEWEY, M. W.; WOODBURY, A. C.; BENZLEY, S. E.; STATEN, M. L. ; OWEN, S. J. **Adaptive Mesh Coarsening for Quadrilateral and Hexahedral Meshes**, *Finite Elements in Analysis and Design*, v.46, n.1-2, p. 17–32, 2009.
- [49] SHIRMAN, L.; ABI-EZZI, S. **The Cone of Normals Technique for Fast Processing of Curved Patches**. Em: EUROGRAPHICS, p. 261–272. Eurographics Association, 1993.
- [50] SHOWERMAN, M.; ENOS, J.; PANT, A.; KINDRATENKO, V.; STEFFEN, C.; PENNINGTON, R. ; MEI HWU, W. **QP: A Heterogeneous**

- Multi-Accelerator Cluster.** Technical report, NCSA, University of Illinois at Urbana-Champaign, 2008.
- [51] STATEN, M.; CANANN, S. A. **Post refinement element shape improvement for quadrilateral meshes.** Em: ASME TRENDS IN UNSTRUCTURED MESH GENERATION 220, p. 9–16, 1997.
- [52] STATEN, M. L.; BENZLEY, S. ; SCOTT, M. A methodology for quadrilateral finite element mesh coarsening, **Engineering with Computers**, v.24, p. 241–251, Junho 2008.
- [53] TAKEUCHI, A.; INO, F. ; HAGIHARA, K. An Improved Binary-swap Compositing for Sort-Last Parallel Rendering on Distributed Memory Multiprocessors, **Parallel Computing**, v.29, n.11-12, p. 1745–1762, Nov. 2003.
- [54] TARINI, M.; PIETRONI, N.; CIGNONI, P.; PANOZZO, D. ; PUPPO, E. Practical Quad Mesh Simplification, **Computer Graphics Forum (Special Issue of Eurographics 2010 Conference)**, v.29, n.2, p. 407–418, 2010.
- [55] **Amazon Elastic Compute Cloud.** <http://www.amazon.com/ec2>, acessado em Julho de 2011.
- [56] **Gaikai Open Gaming Cloud.** <http://www.gaikai.com>, acessado em Julho de 2011.
- [57] **OnLive Game Service.** <http://www.onlive.com>, acessado em Julho de 2011.
- [58] WU, J.; KOBELT, L. **Fast Mesh Decimation by Multiple-choice Techniques.** Em: VISION, MODELING AND VISUALIZATION, p. 241–248. IOS Press, 2002.
- [59] WYLIE, B.; PAVLAKOS, C.; LEWIS, V. ; MORELAND, K. Scalable Rendering on PC Clusters, **IEEE Computer Graphics & Applications**, v.21, n.4, p. 62–70, 2001.
- [60] YANG, D.-L.; YU, J.-C. ; CHUNG, Y.-C. Efficient Compositing Methods for the Sort-Last-Sparse Parallel Volume Rendering System on Distributed Memory Multicomputers, **The Journal of Supercomputing**, v.18, n.2, p. 201–220, 2001.