

Temporal Bone Dissection Simulation

G. Literature Cited

AAO-HNS 2002, see <http://www.aao-hns.org/healthinfo/balance/fall.cfm>

Abduljalil AM, Schmalbrock P, Novak V and DW Chakeres " Phase Venous Vessels Enhancement in High Field Brain MR Imaging," Tenth Meeting of the International Society of Magnetic Resonance in Medicine, May 2002

Abduljalil AM, Schmalbrock P and DW Chakeres, "SENSE Imaging Using TEM Coil at Ultra High Field," Submitted to ISMRM 2003.

Agus M, Giachetti A, Gobbetti E, Zanetti G, Zorcolo A, John NW and RJ Stone, (2002) "Mastoidectomy Simulation with Combined Visual and Haptic Feedback, Proc. MMVR10, J.D. Westwood et al, (Eds.) IOS Press, Amsterdam, 2002, 17-23.

Agus M, Giachetti A, Gobbetti E, Zanetti G, Zorcolo and B Picasso, "A Haptic Model of a Bone-Cutting Burr" Proc. MMVR11, .J.D. Westwood et al, (Eds.) IOS Press, Amsterdam,4-10.

Bielser D, Maiwald VA and MH Gross , "Interactive Cuts through 3-Dimensional Soft Tissue", Computer Graphics Forum (Eurographics '99)": 31-38]

Bielser D and MHGross , "Interactive Simulation of Surgical Cuts", Proceedings of Pacific Graphics 2000, IEEE Computer Society Press, :116-125]

Bier-Laning C, Wiet GJ and D Stredney, "Evaluation of a High Performance Computing Technique for Cranial base Tumor Visualization," International Conference Head Neck Cancer. Toronto, Canada,1996:253

Blevins NH, Jackler RK and C Gralapp, "Temporal Bone Dissector- The Interactive Otology reference, CDROM. Mosby-Year Book, Inc. 1998.

Bourekas E, Christoforidis G, Baujan M, Abduljalil AM, Kangarlu A, Chakeres D, Spigos D and PM Robitaille, "High resolution of deep gray nuclei", J Comp. Assist. Tomogr. 23 (1999) 857

Brodie, H and T Singh, "Temporal Bone Anatomy" CDROM, University of California Davis Medical School, October 13, 1997.

Bro-Nielsen M and S Cotin, (1996) "Real Time Volumetric Deformation Model for Surgery Simulation using FE and Condensation", Proc. Eurographics'96:57-66.

Bryan J, Stredney D, Sessanna D, Wiet GJ, "Virtual Temporal Bone Dissection: A Case Study", Proc. of IEEE Visualization 2001, San Diego, CA, 2001:497-500.

Burgess RE, Yu Y, Christoforidis GA, Bourekas EC, Chakeras DW, Spigos D, Kangarlu A, Abduljalil AM, and PM Robitaille, "Human leptomenigeal and cortical vascular anatomy of the cerebral cortex at 8 Tesla. J CSomp. Assist. Tomogr. 23: 850(1999)

CareerMD 2002 – see: <http://www.careermd.com/cgi-bin/CareerMD/ResDB/ResDB.exe>

Chen D and Zeltzer D, (1992) "Pump It Up: Computer Animation of a Biomechanically Based Model of Muscle Using the Finite Element Method", Proc. ACM SIGGRAPH'92: 89-98.

Christensen J, Marks J. and J Ngo (1997) "Automatic Motion Synthesis for 3D Mass-Spring Models", The Visual Computer, No. 13:20-28

Christoforidis GA, Bourekas EC, Baujan M, Abduljalil Am, Kangarlu A, Spigos DG, Chakeras DW and PM Robitaille" High resolution MRI of the deep brain vascular anatomy at 8 Tesla: susceptibility-based enhancement of the venous structures, Jcomp. Assit. Tomogr. 23(6): 857-866 (1999)

Christoforidis GA, Grecula JC, Newton HB, Kangarlu A, Abduljalil AM, Schmalbrock P and DW Chakeres, "Visualization of microvascularity within glioblastoma multiforme utilizing 8 Tesla high- resolution magnetic resonance imaging" AJNR 23(9) 1553-1556 OCT 2002

Cg = nVIDIA <http://www.nvidia.com/view.asp?IO=cg>

Dachille F, Kreeger K, Chen B, Bitter I, and A Kaufman," High-quality Volume Rendering Using Texture Mapping Hardware", SIGGRAPH/Eurographics Workshop on Graphics Hardware, 1998.

Dawson SL and JA Kaufman, "The Imperative for Medical Simulation, Proc. IEEE, 86(3) March, 1998, 479-483

Donaldson JA, Surgical Anatomy of the Temporal Bone"Fourth Ed. Raven Press, New York, 1992

Edmond CV, Heskamp D, Sluis D, Stredney D, Wiet GJ, Yagel R, Weghorst S, P Oppenheimer, Miller J, M Levin and L Rosenberg, "ENT Endoscopic Surgical Training Simulator", Proc. MMVR5, Morgan et al, (Eds.), IOS Press, Amsterdam;1997:518-528

Ellsworth D, Chiang LJ and HW Shen, "Accelerating time-varying hardware volume rendering using TSP trees and color-based error metrics." IEEE/ACM 2000 Symposium on Volume Visualization, Oct. 2000

Engel K, Kraus M, and T Ertl," Visualization and Interactive Systems Group, University of Stuttgart, Germany, High-Quality Pre-Integrated Volume Rendering Using Hardware-Accelerated Pixel Shading, Siggraph/Eurographics Workshop on Graphics Hardware, 2001

Feltovich PJ, Spiro RJ and RL Coulson," The Nature of Conceptual Understanding in Biomedicine: The Deep Structures of Complex Ideas and the Development of Misconceptions", In D. Evans & V Patel (Eds.), The Cognitive Sciences in Medicine, Cambridge, MA:MIT Press (Bradford Books)1989: 113-172

Fujita S and I Sando (1994) "Postnatal Development of the Vestibular Acqueduct in Relation to the Internal Auditory Canal, Computer-Aided Three-Dimensional Reconstruction and Measurement Study", Ann Otol Rhinol Laryngol 103:719-722.

Gallagher AG, "VR to OR", presentation at MMVR11, January 24, 2003, Newport Beach, CA.

Glasscock, ME and GE Shambaugh, "Surgery of the Ear", Fourth Edition, WB Saunders Company, Philadelphia, 1990.

Golding-Wood DG, "Temporal bone dissection for display" Journal of Laryngology and Otology, January 1994, pgs-3-8.

Grass M, Kohler Th, Proksa R. 3D cone-beam CT reconstruction for circular trajectories. Phys Med Biol 2000, 45:329-347.

Green JD Jr, Marion MS, Erikson BJ, Robb RA, and R Hinojosa, "Three-Dimensional Reconstruction of the Temporal Bone" Laryngoscope 100, January 1990:1-4.

Guthe S and W Straber. Real-time decomposition and visualization of animated volume data, Proc. of IEEE Visualization '01:349—356 Computer Society Press, 2001.

Hadwiger M, Berger C, and H Hauser, "High-quality Two-Level Volume Rendering of Segmented Data Sets on Consumer Graphics Hardware," IEEE Visualization 2003:301-308.

Harada T, Ishii S, and N Tayama, "Three-dimensional Reconstruction of the Temporal Bone From Histological Sections," Arch Otolaryngol Head Neck Surg, 1988;114:1139-1142.

Hiemenz L, McDonald JS, Stredney D and D Sessanna, "A Physiologically Valid Simulator for Training Residents to Perform an Epidural Block," Proc. 15th Southern Biomedical Engineering Conference, March 29-3, 1996

Hiemenz L, Stredney D and P Schmalbrock, "Development of a Force Feedback Model for an Epidural Needle Insertion Simulaton," Proc. MMVR 6 1998, Westwood et al, (Eds), IOS Press, Amsterdam:272-277

Hinojosa R, Green D, Brecht K and RA Robb (1996) Otocephalus: Histopathology and Three-Dimensional Reconstructio, Otolaryngology, H&NS, January:44-53

John N, et al, "An Integrated Simulator for Surgery of the Petrous Bone" Proc. MMVR9,2001:218-224.

Ikui A, Sudo M, Sando I and S Fujita (1997) "Postnatal Change in Angle Between the Tympanic Annulus and Surrounding Structures-Computer-Aided Three-Dimensional Reconstruction Study", Ann Otol Rhinol Laryngol 106:33-36.

IOM (2000) To Err is Human: Building a Safer health System, National Academy Press, Washington, D.C.

Ishijima K, Sando I, Suzuki C, Balaban C and K Takasaki(2000) "Length of the Eustachian Tube and Its Postnatal Development:Computer-Aided Three-Diemensional Reconstruction and Measurement Study", Ann Otol Rhinol Laryngol 109:542-549.

ITK = National Library of Medicine. Insight Segmentation and Registration Toolkit. <http://www.itk.org> . 2002.

Kaus MR, Warfield SK, Nabavi A, Black PM, Jolesz FA, Kinkinis R., "Automated segmentation of MR images of brain tumors" Radiology.2001 Feb;218(2):586-91

Keeve E, Girod P, Pfeifle P and B Birod, (1996) "Anatomy-Based Facial Tissue Modeling Using the Finite Element Method", Proc. IEEE Visualization'96 : 22-28.

Khali H, Atiya A and S. Shaheen. Three-dimensional video compression using subband/wavelet transform with lower buffering requirements. IEEE Transactions on Image Processing1999, 8(6):762--772

Kim Y, Kim R and S. Lee. On the adaptive 3d subband video coding. In Proceedings of SPIE1993 pages 1302-1312

Kruger J and R Westermann, "Acceleration Techniques for GPU-based Volume Rendering", IEEE Visualization 2003:287-292.

Kuppersmith RB, Johnston R, Moreau D, Loftin RB, and H Henkins, "Building a Virtual Reality Temporal Bone Dissection Simulator", Proc. of Medicine Meets Virtual Reality, K.S. Morgan et al. (Eds.) IOS Press Amsterdam, 1997:180-186

Kurucay S, Schmalbrock P, Chakeres DW and PJ Keller, "A Segment Interleaved Motion Compensated Acquisition in the Steady State Technique for High Resolution Imaging of the Inner Ear", JMRI 7,1060-1068, 1997

LaMar E, Hamann B and KI Joy, "Multiresolution Techniques for Interactive Texture-Based Volume Visualization," Proceedings of IEEE Visualization '99, San Fran. CA, Oct. 24-29 1999 (Ebert et al, (Eds):355-362.

Lee Y, Terzopoulos D. and K Waters, (1995) "Realistic Modeling for Facial Animation", Proc. ACM SIGGRAPH'95:55-62.

Li X and HW Shen, "Adaptive Volume Rendering using Fuzzy Logic Control, Joint Eurographics-IEEE TCGV Symposium on Visualization. May, 2001

Li X and HW Shen, "Time-Critical Multiresolution Volume Rendering using 3D Texture Hardware, IEEE/ACM 2002 Symposium on Volume Visualization and Graphics, 2002

Lukas SE, Sholar M, Stredney D, Torello MW, May and F Scheepers, (Integration of P300 Evoked Potentials with Magnetic resonance Images(MRI) to Identify Dipole Sources in Human Brain ", Society of Neuroscience, Nov. 7-12, Washinton, D.C. 1993

Lukas SE, Sholar M, Stredney D, Torello MW, May and F Scheepers, "Apparent Source of EEG Sleep Spindles and K-Complexes: Correlations with Anatomical Sites Using Magnetic Resonance Imaging(MRI), Sleep Research Society, Amer. Sleep Disorders Assoc. APSS 8th An. Mtg, June 4-9, Boston, Mass.(1994)

Lum E., Ma K and J.Clyne. Texture hardware assisted rendering of time-varying volume data. In Proceedings of IEEE Visualization '01: 263-270. Computer Society Press, Los Alamitos, CA, 2001

Maes F, Collignon A, Vandermeulen D, Marchal G and Suetin P, "Multimodality Image Registration by Maximization of Mutual Information," *IEEE Trans. Med. Imag.*, vol. 16, no. 2, pp. 187-198, 1997.

Mason TP, Applebaum EL, Rasmussen M, Millman A, Evenhouse R, and W Panko, "The Virtual Temporal Bone", Proc. of Medicine Meets Virtual Reality, J.D Westwood et al., (Eds.) IOS Press Amsterdann 1998:346-352.

Maw R, Wilks J, Harvey I, Peters TJ, Golding J. Early surgery compared with watchful waiting for glue ear and effect on language development in preschool children: a randomised trial. Lancet. 20 Mar 1999. 353 (9157): 960-963

McDonald JS, Yagel R, Schmalbrock P, D Stredney, Reed DM and D Sessanna, "Visualization of Compression Neuropathies through Volume Deformation," Proc. MMVR5, Morgan et al, (Eds.),IOS Press, Amsterdam;1997:99-105

Meier AH, Rawn HL and TM Krummel, "Virtual Reality: Surgical Application – Challenges for the New Millennium, 192(3) J Am Coll Surg.March 2001, 373-384.

Metaxas D and D Terzopolus, (1992) "Dynamic Deformation of Solid Primitives with Constraints", Proc. ACM SIGGRAPH '92:309-312.

Nakashima S, Sando I, Takahashi H and S Fujita (1993) "Computer-Aided 3-D Reconstruction and Measurement of the Facial canal and Facial Nerve.I. Cross-Sectional Area and Diameter: Preliminary Report, Laryngoscope 103:October, 1150-1156.

Nelson RA, "Temporal Bone Surgical Dissection Manual ", 2nd Edition, House Ear Institute, Los Angeles, CA. 1991

NIDCD-12002, see: <http://www.nidcd.nih.gov/strategic/strategic.htm>

NIDCD-2 2002, see: http://www.nidcd.nih.gov/health/pubs_hb/coch.htm#e

Nienhuys HW and AF van der Stappen, "A Surgery Simulation Supporting Cuts and Finite Element Deformation", Medical Image Computing and Computer-Assisted Intervention, 2001

NIH Consensus Statement, 1995, May 15-17;13(2):1-30

NRC 1997 – “Modeling and Simulation: Linking Entertainment and Defense” Computer Science and Telecommunications Board, Commision on Physical Sciences, Mathematics, and Applications, National Rerseach Council, National Academy Press, Washington, D.C. 1997

OSU-1999 — Clinical records, Department of Otolaryngology, The Ohio State University Medical Center

OSU-2002 — Clinical records, Department of Otolaryngology, The Ohio State University Medical Center

Park J, Kim SY, Son SW and DS Kwon, “Shape Retaining Chain Linked Model for Real-time Volume Haptic Rendering”, IEEE Volume Visualization and Graphics Symposium 2002:65-72.

Pettigrew AM, 2002, see www.temporal-bone.com/plastic.htm

Pflessner B, Leuwer R, Tiede U and KH Hohne,(2000)“Planning and Rehearsal of Surgical Interventions in the Volume Model”, Proc. MMVR9, JD Westwood et.al, (Eds) IOS Press Amsterdam, 259-264.

Pluim JPW, Maintz JBA and Viergever MA, “Image Registration by Maximization of Combined Mutual Information and Gradient Information,” *IEEE Trans. Med. Imag.*, vol. 19, no. 8, pp. 809-814, 2000.

Pluim, JPW, Maintz, JBA and Viergever, MA, “Mutual-information-based registration of medical images: A survey,” *IEEE Trans. Med. Imag.*, vol. 22, no. 8, pp. 986–1004, 2003.

Promayon E, Baconnier P and C Puech, (1996) “Physically-Based Deformations Constrained in Displacements and Volume”, Proc. Eurographics’96,:155-164

Provot X, (1995) “Deformation Constraints in a Mass-Spring Model to Describe Rigid Cloth Behavior”, Proc. Graphics Interface’95:147-154.

Reddy M, Watson AB, Walker N and FL Hodges. Managing level of detail in virtual environments: a perceptual framework. In Presence: Teleoperators and Virtual Environments 1997 :658--666

Robb RA, “VR assisted surgery planning”, IEEE Eng. Med. Biol 1996;15:60-69

Rosenberg LB and D Stredney, A Haptic Interface for Virtual Simulation of Endoscopic Surgery Proc. MMVR4, Weghorst et al. (Eds), IOS Press, Amsterdam; 1996:371-387

Rosowski JJ, Dobrzenieki AB and DT Flandermyer(1996) Computer Assisted Three-Dimensuiional Reconstruction of Normal and Pthological Human Ears”, Abst. Am. Acad. Of Otolaryngology H&NS:#813.

Rudman DT, Stredney D, Sessanna D, Yagel R, Heskamp D, Edmond CV and GJ Wiet, (1998) “Functional Endoscopic Sinus Surgery Training Simulator,” The Laryngoscope Journal.1998, 108(11):1643-1647

Sakashita T and I Sando, (1995)“Postnatal Development of the Internal Auditory Canal Studied by Computer-Aided Three-Dimensional Reconstruction and Measurement”, Ann Otol Rhinol Laryngol 104:469-475.

Sando I, Takahara T, Doyle JD, Kitajiri M, Okuno H and WJ Coury,, (1986) “A Method for the Histopathological Analysis of the Temporal Bone and the Eustachian Tube and its Accessory Structures, ann otol Rhinol Laryngol 95:267-274.

Sando I and T Takahashi (1996) "Stereophotography of Computer-Aided 3-Dimensional reconstructions of the Temporal Bone Structures", Abst. Of Am. Acad. Of Otolaryngology H&NS:#811

Sando I, Sudo M, and C Suzuki (1998) "Three-Dimensional Reconstruction and Measurement Study of Human Eustachian Tube Structures:A Hypothesis of Eustacian Tube Function", Ann Otol Rhinol Laryngol 107:547-554.

Satava, RM, "Cybersurgeon: Advanced simulation technologies for surgical education". Bulletin of the American College of Surgeons, July 1996: 77-81

Schneider J and R Westermann," Compression Domain Volume Rendering" IEEE Visualization 2003:293-300.

Schmalbrock P, Comparison of 3D Spin Echo and Gradient Echo Sequences for high resolution Temporal Bone Imaging, JMRI 12, 814-825, 2000

Schmalbrock P, Abduljalil A, Truong TK, "TOF and BOLD 3D Gradient Echo Imaging of Cerebral Vasculature at 8T", Tenth Meeting of the International Society of Magnetic Resonance in Medicine, May 2002.

Schmalbrock P, Whitaker CDS, Mitchell C and AM Abduljalil, "T1 and T2 Measurements Using TEM Coils with SENSE Parallel Imaging at 8T," Submitted to ISMRM 2003.

Schuknecht HF and AJ Gulya, Anatomy of the Temporal Bone with Surgical Implications, Lea & Febiger, Philadelphia, 1986.

Serra L, Kockro R, Goh LC, Ng H, and ECK Lee, "The DextroBeam: a stereoscopic presentation system for volumetric medical data, Proc. MMVR10, JD Westwood et al, (Eds.) IOS Press, Amsterdam, 2002, 478484

Shen HW, Chiang L and KL Ma, "Time-Varying Volume Rendering Using a Time-Space Partitioning Tree," IEEE Visualization '99, Oct. 1999

Shen HW, Chiang LJ, and K.L. Ma. A fast volume rendering algorithm for time-varying field using a time-space partitioning ({TSP}) tree. Proc. of IEEEVisualization '99 Computer Society Press, Los Alamitos, CA, 1999.

Shirley P and A Tuchman, (1990) "A Polygonal Approximation to Direct Scalar Volume Rendering", Computer Graphics, Vol. 24, No. 5:63-70, November.

Sohn C, C. Bajaj and V. Siddavanahalli. Feature based volumetric video compression for interactive playback. Proc. of 2002 Symposium on Volume Visualization ACM SIGGRAPH 2002 :89--96

Stredney D, Sessanna D, McDonald JS, Hiemenz L and L Rosenberg, "A Virtual Simulation Environment for Learning Epidural Anesthesia" Proc. MMVR4,Weghorst et al. (Eds), IOS Press, Amsterdam; 1996:164-175

Stredney D, Wiet GJ, Yagel R, Sessanna D, Kurzion Y, Fontana M, Shareef N, Levin M, Martin K and A Okamura, "A Comparative Analysis of Integrating Visual Representations with Haptic Displays", Proc. MMVR6, Westwood et al, (Eds.) IOS Press, Amsterdam; 1998:20-26

Stredney D, Crawfis R, Wiet GJ, Sessanna D, Shareef N and J Bryan, "Interactive Volume Visualization for Synchronous and Asynchronous Remote Collaboration," Proc. MMVR7, Westwood et al, (Eds.) IOS Press, Amsterdam, 1999:344-350

Stredney D, Agrawal A, Barber D, Crawfis R, Feng WC, Hou J, Panda DK, Sadayappan P, Powell K , Schmalbrock P, Sessanna D, Wiet GJ, Shareef N and J Bryan, "Interactive Medical data on Demand: A High-Performance Imaged Based Approach Across Heterogeneous Environments", Proc. MMVR8, Westwood et al, (Eds.) IOS Press, Amsterdam, 2000:327-333

Stredney D, Wiet GJ, Bryan J, Sessanna D, Murakami J, Schmalbrock P, Powell K, and DB Welling, "Temporal Bone Dissection Simulation – An Update", Proc. MMVR10, JD Westwood et al, (Eds.) IOS Press, Amsterdam, 2002:507-513.

Swartz JD and HR Harnsberger, "Imaging the Temporal Bone". 3rd Edition, Thieme, New York. 1998

Taubman D and A. Zakhori. Multirate 3-d subband coding of video. IEEE Transactions on Image Processing, 1999, 3(6):572--588

Takagi A, and I Sando,(1988) "Computer-aided three-dimensional reconstruction and measurements of the vestibular end-organs, Otolaryngology – Head and Neck Surgery, (98) 3:195-202.

Takagi A and I Sando,(1989) "Computer –Aided Three-Dimensional Reconstruction: A Method of Measuring Temporal Bone Structures Including the Length of the Cochlea, Ann Otol Rhinol Laryngol 98:515-522.

Terzopoulos D, Platt J, Barr A and K Fleischer (1987) "Elastically Deformable Models", Proc. of ACM SIGGRAPH'87:205-214.

Tsao, J, "Interpolation artifacts in multimodality image registration based on maximization of mutual information," IEEE Trans. Med. Imag., vol. 22, no. 7, pp. 854–864, 2003.

Vanier MW, Marsh JL ad JO Warren, "Three-dimensional computer Graphics for CranioFacial Surgical Planning and Evaluation", Computer Graphics, 17(3) July 1983 263-273.

Van Gelder A and K Kim, "Direct Volume Rendering with Shading via Three-Dimensional Textures", Proc. IEEE Symposium on Vol. Viz. '96, 1996.

VHP -NLM 2002 see: http://www.nlm.nih.gov/research/visible/visible_human.html

Viola P and Wells WM III, "Alignment by maximization of mutual information," Proc. 5th Intl. IEEE Conf. On Computer Vision, vol. 5, pp. 16-23, 1995.

Viola I, Kanistar K, and ME Groller, "Hardware-Based Nonlinear Filtering and Segmentation using High-Level Shading Languages", IEEE Visualization 2003:309-316.

VRML = VRML 97, international specification iso/iec is 14772-1. 1997.

VTK = <http://public.kitware.com/VTK>

Wackym, P. "Perspectives on the Future of Temporal Bone Research, The American Journal of Otology, 1997;18:693-696

Weghorst D, Airola C, Openheimer P, Edmond CV, Patience T, Heskamp D and J Miller, "Validation of the Madigan ESS Simulator", Proc. MMVR6, JD Westwood et al, (Eds.) IOS Press, Amsterdam;1998:399-405

Wells WM III, Viola P, Atsumi H, Nakajima S and Kikinis R, "Multi-modal volume registration by maximization of mutual information," Med. Imag. Analysis, vol. 1, no. 1, pp 35-51, 1996.

Westerman R and T Ertl, "Efficiently using Graphics Hardware in Volume Rendering Applications" In Proc. Of SIGGRAPH, 1998.

Weiler M, Westermann R, Hansen C, Zimmerman K and T Ertl," Level-of-Detail Volume Rendering via 3D Textures"Proc. IEEE Vol. Viz and Graphics Symposium, 2000.

Wiet GJ, Schuller DE, Goodman J, Stredney D, Bender CF, Yagel R, Swan JE and P Schmalbrock, "Virtual Simulations of Brain and Cranial Base Tumors", Proc. Anal. Mtg. Am. Acad. Otolaryngology, Head and Neck Surgery, San Diego, CA. September, 1994

Wiet GJ, Stredney D, Yagel R, Swan JE, Shareef N, Schmalbrock P, Wright K, Smith and DE Schuller, "Cranial Base Tumor Visualization through High Performance Computing", Proc. MMVR4, Weghorst et al. (Eds.) IOS Press, Amsterdam; 1996:43-59

Wiet GJ, R Yagel R, D Stredney, Schmalbrock P, Sessanna D, Kurzion Y, Rosenberg L, Levin M and K Martin, "A Volumetric Approach to Virtual Simulation of Functional Endoscopic Sinus Surgery," Proc. MMVR5 Morgan et al, (Eds.), IOS Press, Amsterdam; 1997:167-179

Wiet GJ, Stredney D, Yagel R and D Sessanna, Using Advanced Simulation Technology for Cranial Base Evaluation," Computers in Otolaryngology, 31(2)April 1998; 341-356

Wiet GJ, Bryan J, Dodson E, Sessanna D, Stredney D, Schmalbrock P and B Welling, "Virtual Temporal Bone Dissection" Proc. MMVR8, Westwood et. al., (Eds). IOS Press Amsterdam; 2000:378-384

Wiet GJ, Stredney D and P Schmalbrock, "Tumor Visualization: Chapter 18 in Computer-Aided Otorhinolaryngology – Head and Neck Surgery, 2001:311-328

Wiet, G.J., Stredney D, Sessanna and J Bryan. "Volume-based Temporal Bone Dissection Simulator," AAO-HNSF/ARO Research Forum, Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery Foundation, Denver, Colorado, September 9-12, 2001

Wiet GJ, Stredney D, "Update on surgical simulation: The Ohio State experience" Accepted for publication in Otolaryngologic Clinics of North America. June (2002).

Wiet GJ, Stredney D, Sessanna D, Bryan J, Welling DB and P Schmalbrock. "Virtual temporal bone dissection: An interactive surgical simulator", Otolaryngology-H&NS, July (2002) 79-83.

a-Yagel R, Stredney D, Wiet GJ, Schmalbrock P, Rosenberg R, Sessanna DJ, Kurzion Y and S King, "Multisensory Platform for Surgical Simulation, IEEE VRAIS, Santa Clara, CA March, 1996: 72-78

b-Yagel R, Stredney D, Wiet GJ, Schmalbrock P, Sessanna DJ, Kurzion Y, Swan E, Shareef N, Smith J and DE Schuller, Cranial Base Tumor Visualization through Multimodal Imaging: Integration and Interactive Display, 4th An. Mtg. Soc. Magnetic Resonance, New York, NY. April 1996

c- Yagel R, Stredney D, Wiet GJ, Schmalbrock P, Rosenberg L, Sessanna D and Y Kurzion, "Towards Real-Time Multisensory Virtual Surgery," IEEE Multimedia, June, 1996

d- Yagel R, Stredney D, Wiet GJ, Schmalbrock P, Rosenberg L, Sessanna DJ and Y Kurzion, "Building a Virtual Environment for Endoscopic Sinus Surgey Simulation, Comp. & Graphics, Dec. 20(6): 813-823

Yasumura S, Takahashi H, Sando I, Aoki H, and BE Hirsch (1993) "Facial Nerve Near the External Auditory Meatus in Man: Computer Reconstruction Study-Preliminary Report", Laryngoscope 103:September :1043-1047.

Yoo TS, Ackerman MJ, Lorensen WE, Schroeder W, Chalana V, Aylward S, Metaxas D and R Whitaker, "Engineering and Algorithm Design for an Image Processing API: A Technical Report on ITK- the Insight Toolkit, Proc. MMVR02/10, JD Westwood, et al, (Eds) IOS Press, Amsterdam, 2002:586-592.