

Dmitry B. Goldgof

Computer Science and Engineering Department
University of South Florida, Tampa, Florida 33620
(813) 974-4055, (813) 974-5456 (fax)
goldgof@mail.usf.edu

EDUCATION

Ph.D. Dept of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 1989.
M.S. Dept. of Electrical, Computer, Systems Engineering, Rensselaer Polytechnic Institute, Troy, N.Y., 1985.
B.S. Dept. of Computer Science, Moscow Forest Engineering Institute, Moscow, Russia, 1979.

PROFESSIONAL EXPERIENCE

8/18 - Distinguished University Professor, University of South Florida
1/17 - Vice Chair, Department of Computer Science & Engineering, University of South Florida
8/00 - Professor, Department of Computer Science & Engineering, University of South Florida
8/99 - Member, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
3/13 - Professor, Department of Oncological Sciences, USF Health
10/17 - Research Associate, James A. Haley Veterans Hospital, Department of Veterans Affairs
5/03 - 8/15 Associate Chair, Department of Computer Science & Engineering, University of South Florida
7/02 - 5/03 Professor, Cancer Control, Bioinformatics, H. Lee Moffitt Cancer Center, Tampa, FL
7/99 - 5/02 Director of Graduate Studies, Computer Science and Engineering, USF
5/99 - 5/03 Professor, Department of Psychology, University of South Florida
8/94 - 7/00 Associate Professor, Department of Computer Science & Engineering, USF
4/96 - 5/96 Visiting Associate Professor, Computer Science, University of Bern, Bern, Switzerland
9/95 - 3/96 Visiting Associate Professor, Computer Science, University of California at Santa Barbara
8/89 - 7/94 Assistant Professor, Computer Science and Engineering, USF
8/81 - 8/83 Systems Engineer, McGuinness and Associates, Inc., Schenectady, NY

INTERESTS

Medical Image Analysis and Machine Learning, Image and Video Processing, Computer Vision and Pattern Recognition, Ethics and Computing, Bioinformatics and Bioengineering

HONORS

- Named Distinguished University Professor, University of South Florida, 2018
- Invited Talk, "Automatic Assessment of Neonatal Pain", Polytechnic University of Bari, Bari, Italy, 5/2018
- 2017 Outstanding Research Achievement Award, College of Engineering, University of South Florida, 2018
- Elected to College of Fellows, American Institute for Medical and Biological Engineering (AIMBE), 2017
- Awarded Fellow status by American Association for the Advancement of Science (AAAS) "for distinguished contribution to the fields of computer vision, pattern recognition and biomedical applications, particularly in biomedical image analysis", 2016
- Member-at-Large (elected by SMC members), Board of Governors, IEEE Systems, Man and Cybernetics Society, 2010-2011, 2007, 2015-2017
- Invited Talk, "Image Analysis in Radiomics: Challenges and Opportunities", IEEE International Symposium on Multimedia, Miami, FL, 12/2015
- Keynote Talk, "Radiomics, Big Data and Cloud Computing", 2015 International Workshop on Complex Systems and their Modeling, Control, Scheduling and Security Management, Macau, China, 10/2015
- Invited Talk, "Radiomics, Big Data and Cloud Computing", University of Macau, Macau, China, 10/2015
- Invited Talk, UCR IGERT Retreat on Video Bioinformatics, Lake Arrowhead, CA, 10/2014
- Invited Talk, "Image Analysis and Data Mining in support of Radiomics", Institute of Automation, Chinese Academy of Sciences, Beijing, China, 5/2013
- IEEE Transactions on Intelligent Transportation Systems, Best Papers 2010-2012: Best Survey Paper: Understanding Transit Scenes: A Survey on Human Behavior-Recognition Algorithms", vol. 11(1), 2010.

- Awarded Fellow status by International Association for Pattern Recognition (IAPR) "for contributions to computer vision, pattern recognition, and biomedical engineering", 2010.
- USF Academy of Inventors, Charter Member, USF, 2009
- Theodore and Venette Askounes-Ashford Distinguished Scholar Award, USF, 2008
- Elevated to the Fellow status by the Institute of Electrical and Electronics Engineers (IEEE) "for contributions to computer vision and biomedical applications" effective January 2007
- IEEE Distinguished Visitor Program (DVP), 2004-2006
- Keynote Speaker, Mexican International Conference on Computer Science, Puebla, Mexico, 9/2005
- Keynote Speaker, Intern. Symposium on the 3-D Analysis of Human Movement, Tampa, FL, 4/2004
- Together with two of his recent doctoral students Professor Goldgof was honored by USF Outstanding Dissertation Awards in 1999 (Dr. Leonid Tsap) and 2002 (Dr. Min Shin).
- Paper "Matching point features under small nonrigid motion", *Pattern Recognition*, 34(12), pp. 2353-2365, 2001, received Honorable Mention Award by the Pattern Recognition Society in 2002.
- Selected a *Favorite Professor* by USF chapter of the National Society of Collegiate Scholars in 2001.
- Paper "Automatic tumor segmentation using knowledge-based techniques" selected by International Medical Informatics Association for 2000 IMIA Yearbook containing "the best of medical informatics".
- Nineteenth Annual Pattern Recognition Society Award, 1993.
- University of South Florida, College of Engineering *Outstanding Young Investigator Award*, 1992-1993.

PATENTS, APPLICATIONS, LICENSING

- Details are often confidential, but my research group has worked with USF Patents and Licensing to license multiple technologies/IP.
- R. Gillies, D. Goldgof, L. Hall, Systems and Methods for Diagnosing Tumors in a Subject By Performing a Quantitative Analysis of Texture-Based Features of a Tumor Object in a Radiological Image, US Patent No. 9,940,709, granted 4/10/2018.
- J. Ligatti, D. Goldgof, C. Cetin, J. Subils, System and Methods for Authentication using Multiple Devices, US Patent No. 9,659,160, granted 5/23/2017.
- J. Ligatti, D. Goldgof, C. Cetin, J. Subils, Systems and Methods for Anonymous Authentication using Multiple Devices, US Patent No. 9,380,058, granted 6/28/2016.
- K. Kramer, P. Mouton, L. Hall, Goldgof, D. Elozory, O. Bonam, B. Chaudhury, "Software for Automatic Analysis of Biological Tissue using the Stereologer System", US Patent No. 9,297,995, granted 3/29/2016.
- L. Tsap, D. Goldgof, S. Sarkar, Computer Vision-Based Technique for Objective Assessment of Material Properties in Non-Rigid Objects", US patent No. 6,594,381, granted 7/15/2003.
- J. Ligatti, C. Cetin, S. Engram, D. Goldgof, "Systems and Methods for Generating Symmetric Cryptographic Keys", US Provisional Patent Application 62/529,715, filed 7/7/2017, US Patent Application No. 16/030,550, filed 7/9/2018, International application PCT No. US2018/041098, filed 7/8/2018.
- J. Ligatti, D. Goldgof, "Systems and Methods for Authentication using Authentication Votes", US Patent Application No. 15/598,974, filed 5/18/2017.
- G. Alzamzmi, D. Goldgof, Y. Sun, R. Kasturi, T. Ashmeade, Machine-Based Infants Pain Assessment Tool, US Patent Application 14/989,500 filed 1/6/2016
- P. Mouton, B. Chaudhury, D. Goldgof, L. Hall, System and Method for Automated Stereology of Cancer, International Patent Application, PCT/US2015/046550, filed 8/24/2015.
- R. Gillies, R. Gatenby, M. Raghunand, J. Arrington, O. Stringfield, Y. Balagurunathan, D. Goldgof, L. Hall, Radiologically Identified Tumor Habitats, International Patent Application PCT/US2015/01594, filed 3/10/2015.

EDITORIAL BOARDS AND COMMITTEES

- IEEE Systems, Man and Cybernetics Society *Representative* to American Institute for Medical and Biological Engineering (AIMBE) Council of Societies (2017-2018)
- *ICPR Liaison Standing Committee*, International Association of Pattern Recognition (IAPR), 2017-2019.
- *IEEE Press Editorial Board*, 2012-2014, and 2015-2017 terms
- Board of Governors, IEEE Systems, Man and Cybernetics Society, Publication Committee, 2015-2017
- Associate Editor - *IEEE Transactions on Cybernetics* (2001 - present)
- Associate Editor - *International Journal of Pattern Recognition and Artificial Intelligence* (2008 - present)

- NIH, Quantitative Imaging Network (QIN), Image Analysis & Performance Metrics Working Group (IAPMWG), member 2010 - present, Co-Chair 2011-2013, Pet/CT Working Group, Co-Chair 2016-2017, Chair 2017-2018
- Member of IEEE SMC Society Fellows Evaluation Committee, 2014-2018
- ANVUR - National Agency for the Evaluation of the University and Research Systems, Italy, international reviewer, 2016.
- Managing Guest Editor, *Pattern Recogn. Letters*, Special Issue: Depth Image Analysis, 12/2014
- RSNA, Quantitative Imaging Biomarkers Alliance (QIBA), Algorithm Comparison Group, 2012 - 2013.
- Member of IEEE Computer Society Fellows Evaluation Committee, 2008, 2009, 2011-13
- North American Editor - *Image and Vision Computing*, 1998 - 2007
- *Image and Vision Computing*, Special Issue on Articulated and Non-rigid motion, Edited by Dimitris Metaxas, Chandra Kambhampettu and Dmitry Goldgof, 25(3), 2007.
- Founding Member - *Translational Bioinformatics Focused Interaction Group* at H. Lee Moffitt Cancer Center and Research Institute (2003 - 2005)
- Provost Academic Review Team for the Department of Computer and Information Sciences, University of Delaware (2002 -2003)
- International Association of Pattern Recognition Education Committee (2000 - 2002)
- Associate Editor - *PATTERN RECOGNITION* (1990 - 2001)
- Associate Editor - *IEEE Transactions on Image Processing* (1996 - 1998)

GRANTS

- STTR Phase I: Microscope-based Technology For Automatic Brain Cell Counts Using Unbiased Methods, National Science Foundation (NSF/IIP), 1/1/2018 - 12/31/2018, \$224,526, PI P. Mouton (SRC), USF PI D. Goldgof, co-PI L. Hall. Florida High Tech Corridor Matching Grant Program \$101,000.
- Radiomics of Non-Small Cell Lung Cancer, National Institute of Health (NCI/NIH), 08/15/2016 - 07/31/2021, Moffitt Cancer Center PIs, B. Gilles, M. Schabath, \$2,896,812, USF investigators, D. Goldgof, L. Hall.
- An Automated Pressure Ulcer Monitoring System to Improve Pressure Ulcer Health Outcomes in Veterans with SCI, DOD CDMR Spinal Cord Injury Research Program, 9/30/2016 - 9/29/2019, Veterans Administration (VA) PI M. Peterson, \$593,094, USF subcontract \$177,248, USF D. Goldgof (PI), Y. Sun (co-PI), S. Sarkar (co-PI).
- Informatics Tools for Optimized Imaging Biomarkers for Cancer Research and Discovery, *National Institute of Health (NCI/NIH)*, 9/1/2014 - 8/30/19, Massachusetts General Hospital, PI: B. Rosen, J. Kalpathy-Cramer, Moffitt/USF subcontract \$746,389 (Moffitt PI: R. Gillies, D. Goldgof).
- Analysis of Cryptographic Primitives and Protocols, *CBT Holdings*, 5/9/16 - 5/8/17, \$56,649 + \$56,649 matching from the Florida High Tech Corridor, J. Ligatti (PI), Y. Liu (co-PI), D. Goldgof (co-PI).
- BEST: Electro-Optical Infrared Sensor Systems Streaming and Contrast Tracking, Phase III, *CAE USA*, 8/3/2015 - 8/2/2016, \$25,000, PI
- II-New: A Research Platform for Heterogeneous, Massive Parallel Computing, *National Science Foundation, Program: Computing Research Infrastructure*, 7/1/2015 - 6/30/2018, \$679,798, USF PI Yicheng Tu, role: Senior Personnel
- BEST: Electro-Optical Infrared Sensor Systems Streaming and Contrast Tracking, *CAE USA*, 8/4/2014 8/3/2015, \$25,000, PI
- Radiomics of Lung Cancer Screening, *James and Esther King Biomedical Research Program*, 7/1/2011 - 6/30/2014, Moffitt Cancer Center PI, B. Gilles, \$1,275,045, USF Subcontract \$276,818 (USF co-PI L. Hall).
- Radiomics of Non-Small Cell Lung Cancer, National Institute of Health (NCI/NIH), 3/9/2010 - 2/28/2015, Moffitt Cancer Center PIs, B. Gilles, B. Gatenby, 2,984,045, *USF Sub*475,000, (USF co-PI, L. Hall).
- BEST: Electro-Optical Infrared Sensor Systems Streaming, *CAE USA*, 9/1/2013 8/31/2014, \$25,000, PI
- A Fully Automatic System for Verified Computerized Stereoanalysis, Stereology Research Center, *National Institute of Health (NIMH/NIH/SBIR)*, 10/1/2009 - 9/31/2013, SRC PI, P. Mouton, \$799,812, USF Subcontract \$309,842, (USF co-PI, L. Hall). Florida High Tech Corridor Matching Grant Program \$143,201.
- Performance Evaluation of Automated Tracking Systems for Airborne Video (PEATS), *SET Corporation, an SAIC Company / DARPA*, 8/1/2011 - 6/30/2012, \$80,000 (co-PI R. Kasturi).
- Mathematical and Physical Aspects of the Elliptic Growth, *USF Office of research and Innovations*, 11/1/2011 - 10/31/2012, \$24,600 (co-PIs D. Khavinson (PI), R. Teodorescu).
- Early Warning 4-D Remote Sensing System to Assess Synoptic Threats to Coastal Ecosystems of Florida and of Adjacent States and Nations, *BP/FIO - Gulf Oil Spill Prevention, Response and Recovery Grants Program*, 9/1/2010 - 8/31/2012, \$877,796 (lead-PI F. Muller-Karger, co-PIs L. Hall, C. Hu, subcontracts U Miami, FIT, NOAA/AOML, USM).

- Baseline for Impact Assessment of Zooplankton and Imaging Oil Droplet Detection on West Florida Shelf, *BP/FIO - Gulf Oil Spill Prevention, Response and Recovery Grants Program*, 9/1/2010 - 8/31/2012, \$377,310 (co-PIs, J. Cohen, K. Daly, L. Hall, R. Kasturi).
- Collaborations in Fluid Flow and Elliptic Growth Phenomena: Imaging and Modeling, *USF COE Interdisciplinary Scholarship Program*, 8/31/2009 - 3/31/2010, \$25,000 (co-PI, D. Khavinson, G. Sisoiev).
- BPC-DP: CSTEP: Computer Science TransfER Programs, *National Science Foundation*, 10/15/2007 - 9/31/2011, \$592,715 (co-PI's M. Labrador, R. Perez, S. Kadamani).
- Graduate Student Support in Bioinformatics, *H. Lee Moffitt Cancer Center & Research Institute*, 8/7/2008 - 8/6/2009, \$94,800 (co-PI L. Hall).
- Accurate 3D Modeling of Breast Deformation for Temporal Mammogram Registration, *DoD Breast Cancer Research Program Concept Award*, 9/1/2007 - 8/31/2009, \$105,164.
- Evaluation of Smart Video for Transit Event Pattern Detection, *Federal Department of Transportation (FDOT-NCTR)*, 1/1/2008 - 8/31/2009, \$145,000, (co-PI D. Sapper).
- Transfer of USF Evaluation Algorithms into NIST Codebase, *National Institute of Standards and Technology (NIST)*, 5/8/2008 - 3/30/2009, \$65,026.
- Marine Security: Towards Maritime Sentry System, Graduate Education and Research in Pattern Recognition (USF), 2007-2009, \$60,000, (co-PI's Lembke, Sampson).
- Computational Fluid Dynamics of Pharmaceuticals Processing, Graduate Education and Research in Pattern Recognition (USF), 2007-2009, \$60,000, (co-PI's Sunol, Khavinson).
- A Computer Science and Engineering REU Site, *National Science Foundation*, 01/01/2008 - 12/31/2010, \$308,056, (co-investigator, PIs M. Labrador, R. Perez).
- Performance Evaluation for VACE Phase II, *Department of Defense, Advanced Research and Development Activity (ARDA)*, 9/23/2004 - 9/30/2007, \$1,960,411 (co-PI, PI R. Kasturi).
- Increasing the Accrual to Clinical Trials, *National Institutes of Health*, 6/01/05 - 11/30/07, \$310,000 (co-PIs L. Hall, K. Fields).
- A Computer Science and Engineering REU Site for Florida, Puerto Rico, Latin America, *National Science Foundation*, 02/01/2005 - 1/31/2008, \$299,368, (co-investigator, PIs M. Labrador, R. Perez).
- Effects of HYD1 on melphalan sensitivity in a SCID-Hu in-vivo multiple myeloma model, *Multiple Myeloma Research Foundation*, 1/01/06 - 12/31/06, \$100,000 (co-investigator, PI L. Hazlehurst).
- Development of Automated Image Analysis Software for Suspended Marine Particle Classification, *Office of Naval Research, DOD*, 1/1/2002 - 12/31/2002, \$290,809 (co-PI's S. Samson, T. Hopkins). 7/1/2002 - 4/30/2004, \$263,695, 5/1/2004 - 4/30/2007, \$273,962 (co-PI's S. Samson, T. Hopkins, L. Hall).
- Bioengineering Research Partnership for MR imaging spectroscopic data processing, *National Institutes of Health*, 7/1/02-6/30/07, \$480,000 (co-inv, PI L. Hall, with UCSF, U Miami, UCLA, total funds \$4.9M)
- Vision-based on-board collision avoidance system, *National Science Foundation I/UCRC*, 1/01/05 - 12/31/06, \$140,000, (co-PI, PI R. Kasturi, co-PIs S. Sarkar, H. Jeanty).
- Outdoor Biometrics at a Distance for Video Surveillance, *National Science Foundation I/UCRC*, 1/01/05 - 12/31/06, \$140,000, (co-PI, PI S. Sarkar, co-PI R. Kasturi).
- Film Flow in a Spinning Disk Reactor: Image Based Techniques, Collaboration in Basic Science and Engineering (COBASE), *The National Academies, National Research Council*, 1/1 - 12/31/2004, \$7,800.
- CISE Research Resources: A Compute-Intensive Sensor-Based Environment for Research in Computer Vision and Artificial Intelligence, *National Science Foundation*, 9/15/2001 - 8/31/2003, \$141,213 (\$213,213 with USF matching), (CO-PI's S. Sarkar, L. Hall, E. Fink).
- Automated Quantification of Melanoma, US Army Advanced Detection Center, Moffit Cancer Center, USF, 7/1/2001 - 9/31/2003, \$80,779 (co-PI's S. Sarkar, W. Cruse, D. Reintgen).
- Improved Breast Cancer Research through Automated Matching of Patients to Clinical Trials, *U.S. Army Medical Research Office - CDMRP*, 7/1/2000 - 6/31/2004, \$307,702 (co-PI L. Hall, J. Krischer).
- Enhancing Undergraduate Computer Science Curriculum Through Image Computations, *National Science Foundation*, Course, Curriculum, and Laboratory Improvement (CCLI), 1/1/2000 - 12/31/2001, \$75,205 (co-Pi's S. Sarkar, K. Bowyer).
- Nonrigid Motion and Structure Recovery from 2D Views, *National Science Foundation*, Robotics & Intelligent Systems, 5/1/97 - 3/31/2001, \$299,468 (\$320,468 with USF matching).
- Segmentation and Combination of Range Data using Color-Texture Information, *Sandia Laboratories*, 7/8/98 - 8/31/99, \$27,902 (co-PI's S. Sarkar).
- Quantitative Evaluation of Facial Reconstruction, *The Whitaker Foundation*, 04/01/96 to 04/30/2000, \$268,241 (consultant, PI S. Sarkar)
- Acquisition of a Compute Server for Image Analysis Research that Emphasizes Empirical Performance Characterization, *National Science Foundation*, CISE Instrumentation Program, 1/01/98 - 12/31/98, \$59,232 (\$88,848 with USF matching) (co-PI's K. Bowyer, S. Sarkar, L. Hall).

- Acquisition of a Cyberware 3D Scanner to Facilitate State of the Art Research in Computer Vision, *National Science Foundation*, Major Research Instrumentation (MRI) Program, 9/15/97 - 9/14/98, \$115,000 (\$164,286 with USF matching) (co-PI's S. Sarkar, K. Bowyer, L. Piegl).
- A Qualitative Reasoning Expert System for Assigning Patients into Clinical Trials, *H. Lee Moffitt Cancer Center & Research Institute*, 4/1/97 - 6/31/99, \$37,700.
- Space Grant Fellowship Program, *Florida Space Grant Consortium* 8/1/94 - 7/31/97, \$36,000.
- Support of the Research Activities of a Marine Engineering Institute at USF, *Department of Defense, Office of Naval Research*, 6/1/94 - 5/31/96, \$31,026.
- MRI Segmentation for Tumor Volume Measurements, *National Cancer Institute (NIH)* 3/1/93 - 2/28/96, \$390,327 (multiple co-investigators, co-PI's L. Clarke and L. Hall).
- Cardiac Segmentation, *Hewlett-Packard Company*, 4/1/95 - 6/1/95, \$2,500.
- Analysis of Cardiac Tagged MR Images, *Siemens Medical Systems Inc.*, 7/1/94 - 6/31/95, \$12,500.
- 3D Image Segmentation and Cardiac 3D Motion Analysis from MR data *Siemens Medical Systems Inc.*, (co-PI with L. Clarke), 11/1/91 - 10/31/93, \$50,000.
- Three-Dimensional Nonrigid Motion Analysis, *National Science Foundation*, Robotics & Intelligent Systems, Research Initiation Award, 7/15/90 - 6/30/93, \$67,564 (\$97,772 with USF matching funds). REU - supplement to IRI-9010357, 7/15/91 - 6/30/92, \$8,000 (\$11,000 with USF matching funds).
- Center for Engineering and Medical Image Analysis, *Sun Microsystems Inc.*, Hardware Grant. (Co-PI with L. Clarke) 5/1/91 - 4/31/92, \$131,600 (\$161,600 with USF matching funds).
- Techniques for the Left Ventricle Wall Motion Analysis, *The Whitaker Foundation*, Biomedical Engineering Research Grants, 11/01/90-12/31/92, \$102,549 (\$112,549 with USF matching), 1/1/93-12/31/93, \$52,449.
- Three-Dimensional Motion Analysis and its Biomedical Applications, *State of Florida High Technology and Industry Council*, Applied Research Grant Program, 1/1/90 - 1/31/90, \$19,872.

AFFILIATIONS

Fellow of AIMBE, Fellow of AAAS, Fellow of IEEE, Fellow of IAPR, member of IEEE Computer Society, IEEE Systems, Man and Cybernetics Society, IEEE SMC Technical Committee on Medical Informatics, IEEE Engineering in Medicine and Biology Society Member of SPIE - The International Society for Optical Engineering; past member of American Society of Engineering Education, OSA, Optical Society of America, Member of Pattern Recognition Society, Member of Phi Kappa Phi, The National Interdisciplinary Honor Society, Tau Beta Pi, The National Engineering Honor Society, Sigma Xi, The Scientific Research Society

RECENT CONFERENCES CHAIR/COMMITTEES

- *IEEE International Conference on Systems, Man and Cybernetics* (IEEE SMC 2020), 10/2020, Toronto, Canada, Publication Co-Chair.
- *IEEE International Conference on Systems, Man and Cybernetics* (IEEE SMC 2019), 10/2019, Bari, Italy, Program Chair.
- *IEEE International Conference on Systems, Man and Cybernetics* (IEEE SMC 2017), 10/2017, Banff, Canada, Late Breaking Papers Co-Chair.
- *International Conference on Pattern Recognition* (23th ICPR), 12/2016, Cancun, Mexico, Publicity and Sponsorship Co-Chair and Program Committee member.
- *The IEEE International Symposium on Biomedical Imaging (ISBI'16)*, 4/2016, Prague, Czech Republic, Program Committee, Associate Editor.
- *International Conference on Pattern Recognition* (22th ICPR), 8/2014, Stockholm, Sweden, Program Committee, Area Chair (Pattern Recognition and Machine Learning)
- *26th International Symposium on Computer-Based Medical Systems (CBMS 2013, IEEE/ACM)*, 6/2013, Porto, Portugal, Program Committee
- *Big Data Computer Vision 2013, First IEEE Workshop on Large Scale Computer Vision*, 6/2013, Portland, Oregon, Program Committee
- *IEEE Workshop on the Applications of Computer Vision (WACV 2013)*, 1/2013, Clearwater Beach, FL, Local Arrangements
- *International Workshop on Depth Image Analysis (WDIA)*, 11/2012, Tsukuba, Japan, Workshop Chair
- *International Conference on Pattern Recognition* (21th ICPR), 11/2012, Tsukuba, Japan, Program Committee, Area Chair (Pattern Recognition & Applications)

- *25rd SIBGRAPI Conference on Graphics, Patterns, Images*, 8/2012, Brazil, Program Committee
- *25th International Symposium on Computer-Based Medical Systems (CBMS 2012, IEEE/ACM)*, 6/2012, Rome, Italy, Program Committee
- *24rd SIBGRAPI Conference on Graphics, Patterns, Images*, 8/2011, Macei, Brazil, Program Committee
- *International Conference on Computer Analysis of Images and Patterns (CAIP 2011)*, 8/2011, Seville, Spain, Program Committee
- *23rd SIBGRAPI Conference on Graphics, Patterns, Images*, 9/2010, Gramado, Brazil, Program Committee
- *International Conf on Pattern Recognition (20th ICPR)*, 8/2010, Istanbul, Turkey, Program Committee
- *The First IEEE International Conference on Biometrics, Identity and Security (BIDS)*, 9/2009, Tampa, FL, Program Committee
- *International Conference on Computer Analysis of Images and Patterns (CAIP 2009)*, 9/2009, Munster, Germany, Program Committee
- *IEEE Computer Society Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA 2009)*, 7/2009, Miami, FL, Program Committee
- *IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008)*, 10/2008, Singapore, Program Committee
- *International Conference on Pattern Recognition (19th ICPR)*, 12/2008, Tampa, Florida, Local Arrangement Chair
- *IEEE Conf. Comp. Vision and Pattern Recognition*, 6/2007, Minneapolis, MN, Demos Chair
- *IEEE Workshop on Motion and Video Computing*, 2/2007 in Austin, Texas, Program Committee
- *International Conference on Pattern Recognition (18th ICPR)*, 8/2006, Hong Kong, Program Committee, Session Chair
- *European Conference on Computer Vision (ECCV 2006)*, 5/2006, Graz, Austria, Program Committee
- *2nd International Workshop on Computer Vision Approaches to Medical Image Analysis (CVAMIA 2006)*, 5/2006, Graz, Austria, Program Committee
- *Asian Conference on Computer Vision (ACCV 2006)*, 1/2006, Hyderabad, India, Program Committee
- *IEEE Signal Processing Society International Workshop on Multimedia Signal Processing (MMSP 2005)* 10/2005, Shanghai, China, Publications Chair
- *IEEE Conf. Comp. Vision and Pattern Recognition*, 6/2005, San Diego, CA, Program Committee
- *Third International Conference on Image and Graphics*, 12/2004, Hong Kong, Program Committee
- *International Conference on Bioinformatics and its Applications (ICBA 2004)*, 12/2004, Fort Lauderdale, FL, Program Committee
- *International Conference on Pattern Recognition (17th ICPR)*, 8/2004, Cambridge, England, Program Committee
- *IEEE Conf. Comp. Vision and Pattern Recognition*, 6/2004, Washington, DC, Program Committee
- *IEEE Workshop on Articulated and Nonrigid Motion*, 6/2004, Washington, DC, General Co-Chair
- *Computer Vision Approaches to Medical Image Analysis Workshop (CVAMIA)*, 5/2004, Prague, Czech Republic, Program Committee
- *IEEE Conf. Comp. Vision and Pattern Recognition*, 6/2003, Madison, WI, Program Committee
- *IEEE Workshop on Motion and Video Computing*, 12/2002, Orlando, FL, Program Committee
- *International Conference on Pattern Recognition (16th ICPR)*, 8/2002, Quebec City, Canada, Program Committee
- *IEEE Workshop, Math. Methods in Biomedical Image Analysis*, 12/2001, Hawaii, Program Committee
- *IEEE Workshop on Human Motion*, 12/2000, Austin, TX, Program Committee
- *IEEE Workshop on Applications of Comp. Vision*, 12/2000, Palm Springs, CA, Program Committee

RECENT UNIVERSITY COMMITTEES (selected)

USF ResearchOne Funding Review Committee (2011-)
 USF BME Graduate Program Steering Committee (2011-2017)
 USF Distinguished University Professor Discipline Committee, Chair (2011)
 USF Sabbatical Committee (2008-2010)
 USF Engineering Dean Search Committee (2006-2007)
 USF College of Engineering Executive Taskforce (2006-2007)
 USF Provost Ad Hoc Committee (2006)
 USF Council on Technologies for Instruction and Research (2005-2006)
 USF College of Engineering Governance Committee (2005-2008)
 USF Distinguished University Professor Committee (2003-2004)
 Department Faculty Search Committee (2014-2017) Department Graduate Committee (1990 - 2016)
 Department Undergraduate Curriculum and Advising Committee (1997 - 1998, 2010-2016)
 Department Faculty Evaluation Committee (1997-1998,2004-2005, 2008-2009,2012-2014), Chairman (1997,2009,2013)
 Department Promotion and Tenure Committee (1995 - present)
 Department Infrastructure Committee, Chair (2003-2005)
 College of Engineering CS&E Chair Search Committee (2002-2003)
 USF Bioengineering Institute, Member of the Steering Committee (1999 - 2002)

STUDENT SUPERVISION**Ph.D. Dissertation Guidance as Major Professor**

1. Wen-Chen Huang, "Physically-Based Modeling in Nonrigid Motion Analysis", May 1994.
2. Chandra Kambhamettu, "Nonrigid Motion Analysis under Small Deformations", August 1994.
3. Senthil Kumar, "Nonrigid Shape Modeling Schemes", December 1995.
4. Adam Hoover, "The Space Envelope Representation for 3D Scenes", August 1996 (with K. Bowyer).
5. Mathew Clark, "Knowledge-Based Processing of MRI of the Brain", December 1997 (with L. Hall).
6. Mingrui Zhang, "Generic Knowledge-Guided Image Segmentation and Labeling with Applications", December 1998 (with L. Hall).
7. Leonid V. Tsap, "Finite Element Modeling of Biological Tissues", May 1999 (with S. Sarkar). Recipient of USF Graduate Council Outstanding Dissertation Prize for 2000.
8. Rampresad Balasubramanian, "Nonrigid Motion Tracking and Structure Reconstruction with Application to MPEG-4", December 1999.
9. Min Shin, "Nonrigid Motion Analysis and Reconstruction from 2D sequences", August 2001. Recipient of USF Graduate Council Outstanding Dissertation Prize for 2002.
10. Jaesik Min, "Improvement of Range Image Segmentation by Utilizing a Performance Evaluation Framework", August 2002 (with K. Bowyer).
11. Tong Luo, "Scaling Up Support Vector Machines with Application to Plankton Recognition", May 2005 (with L. Hall).
12. Yong Zhang, "Robust Algorithms for Property Recovery in Motion Modeling, Medical Imaging and Biometrics", August 2005 (with S. Sarkar).
13. Yuhua Gu, "Ant Clustering with Consensus", May 2009 (with L. Hall).
14. Yan Qiu, "Temporal Registration of Mammograms by Finite Element Simulation of MR Breast Volume Deformation", May 2009.
15. Joshua Candamo, "Boundary Profile Representation for Objects and Their Surroundings in Outdoor Videos", August 2009 (with R. Kasturi).
16. Vasant Manohar, "Facial Skin Motion Properties from Video: Modeling and Applications", December 2009 (with S. Sarkar).
17. Valentina Korzhova, "Motion Analysis of Fluid Flow in a Spinning Disk Reactor", August 2010.
18. Vidya Kamath, "Enhancing gene expression signatures in cancer prediction models: Understanding and managing classification complexity", December 2010 (with S. Eschrich).
19. Kurt Kramer, "System for Identifying Plankton from the SIPPER Instrument Platform", December 2010 (with L. Hall).
20. Jing Zhang, "Extraction of Text Objects in Image and Video Documents", May 2012 (with R. Kasturi)
21. Sergiy Fefilatyeu, "Algorithms for Visual Marine Surveillance with Rapidly Moving Camera", May 2012
22. Matthew Shreve, "Facial Expression Spotting and Applications", August 2013

23. Mu Zhou, "Knowledge Discovery and Predictive Modeling from Brain Tumor MRIs", May 2015 (with L. Hall)
24. Baishali Chaudhuri, "The Use of Textural Kinetics to Mine Diagnostic Information from DCE MR Images of Breast Tumors", May 2015 (with L. Hall)
25. Hady Ahmady Phoulady, "Adaptive Region-based Approaches for Cellular Segmentation of Bright-Field Microscopy Images", August 2017 (with L. Hall)
26. Rajmadhan Ekambaram, "Active Cleaning of Label Noise Using Support Vector Machines". August 2017 (with L. Hall)
27. Samuel Hawkins, "Lung CT Radiomics: An Overview of Using Images as Data", December 2017 (with L. Hall)
28. Hamidreza Farhidzadeh, "Learning to Predict Clinical Outcomes from Soft Tissue Sarcoma MRI", December 2017 (with L. Hall)
29. Ghada Zamzmi, "Automatic Assessment of Neonatal Pain", August 2018 (with R. Kasturi)

M.S. Thesis Guidance as Major Professor

1. Sanjoy K. Mishra, "Nonrigid Motion Estimation from Point and Line Correspondences", 4/91.
2. Hongpin Li, "3D Model Construction from Multiple Unknown Range Views", 4/91 (with K. Bowyer).
3. Chandra Kambhamettu, "Curvature-Based Approach to Point Correspondence Recovery in Nonrigid Motion", 12/91.
4. Chin-Tzay Lin, "Motion Estimation from Scaled Orthographic Projections without Corresp.", 12/91.
5. Senthil Kumar, "Automatic Tracking of SPAMM Grid in Cardiac MR Images and the Estimation of Deformation Parameters", 12/92.
6. Art Matheny, "The Use of Three- and Four-Dimensional Surface Harmonics for Rigid and Non-Rigid Shape Recovery and Representation", 12/92.
7. Chunlin Li, "Knowledge Based Classification and Tissue Labeling of Magnetic Resonance Images of the Brain", 12/92 (with L. Hall).
8. Hsiao-Kun Tu, "Left Ventricular Boundary Detection From Spatio-Temporal Volumetric Computed Tomography Images", 8/93.
9. Song Han, "Modeling and Reconstruction of Nonrigid Shapes using Hyperquadrics", 8/93.
10. Adam Hoover, "Creating a boundary representation from a range image", 12/93 (with K. Bowyer).
11. Mathew Clark, "Segmentation of Brain MRI with Knowledge-Based Clustering", 8/94 (with L. Hall).
12. Bruce E. Montrose, "Object Correspondence and Motion estimation using Maximal Matching Techniques on OPUS Data", December 1994.
13. Leonid V. Tsap, "Efficient Utilization of Nonlinear FEM for Nonrigid Motion Analysis", 8/95.
14. Mingrui Zhang, "Knowledge-based Classification of CZCS Images and Monitoring of Phytoplankton Blooms off the West Florida Shelf", 8/96 (with L. Hall).
15. Min C. Shin, "An Objective Comparison of Edge Detection Algo. for Structure from Motion Task", 5/98.
16. Wensheng Yao, "Knowledge-based Classification of SeaWiFS Satellite Images for Monitoring Phytoplankton Blooms Off West Florida", 8/99 (with L. Hall).
17. Jungwei Ke, "Fast Accurate Fuzzy Clustering Through Reduced Precision", 9/99 (with L. Hall).
18. Li Zhou, "Computer Aided Image Analysis of Skin Histology Images", 12/00 (with S. Sarkar).
19. Jamie Freeman, "Compression techniques for microarray images", 8/00.
20. Yong Zhang, "An FEM based Motion Recovery Algorithms and it Application in Computer Vision and Imaging", 12/00 (with S. Sarkar).
21. Jing Lin, "Theory and Algorithms for 3D Tracking of Objects under Affine Motion", 12/01.
22. Yelena Mukomel, "Analysis of lesions in Three-dimensional Skin Images", 12/02 (with S. Sarkar).
23. Haiying Zhang, "Detecting Red Tides off West Florida Shelf by Classification of SeaWIFS Sattelite Imagery", 12/02 (with L. Hall).
24. Sorin Anton, "A Finite Element Based Approach in Computer Vision and its Applications for Nonrigid Registration and Biometrics", 12/02.
25. Mugdha Tembey, "Computer-Aided Diagnosis for Mammographic Microcalcification Clusters", 12/03 (with M. Kallergi).
26. Krassimir Ivanov, "Automatic Location and Segmentation of Skin Lesions Using 3D Range Scanner", 12/03 (with S. Sarkar)
27. Yan Qiu, "3D Deformation Model for Lesion Correspondence in Breast Imaging", 12/03 (with L. Li)
28. Bhavesh Goswami, "Optimizing Cost and Data Entry for Assignment of Patients to Clinical Trials Using Analytical and Probabilistic Web-Based Agents", 12/03 (with L. Hall)

29. Sangeeta Kundu, "Facial Strain Maps as a Biometric Source", 8/05 (with S. Sarkar).
30. Kurt Kramer, "Identifying Plankton from Grayscale Silhouette Images", 12/05.
31. Vidya Kamath, "Use of Random Subspaces Ensembles on Gene Expression Profiles to Enhance the Accuracy of Survival Prediction for Colon Cancer Patients", 12/05 (with R. Kasturi).
32. Li Chen, "Ranking-based Methods for Gene Selection", 4/06 (with L. Li).
33. Valentina Korzhova, "Tracking Fluid Flow in a Spinning Disk Reactor", 4/06
34. Vasant Manohar, "Video-based Person Identification using Facial Strain Maps as a Biometric", 4/06
35. Tim V. Ivanovskiy, "Mining Medical Data in a Clinical Environment", 7/06 (with L. Hall)
36. Chintan Thakkar, "Ventricle Slice Detection In MR Images Using Hough Transform and Object Matching Techniques", 12/06 (with L. Hall)
37. Sergiy Fefilatyeu, "Detection of Marine Vehicles in Images and Video of Open Sea", 6/08
38. Weijian Cheng, "Automatic Red Tide Detection Using MODIS Satellite Images", 4/09 (with L. Hall)
39. Sridhar Godavarthy, "Microexpression Spotting in Video using Optical Strain", 8/10
40. Om Pavithra Bonam, "Automated Quantification of Biological Microstructures Using Unbiased Stereology", 6/11 (with L. Hall)
41. Daniel Toby Elozory, "Using a Focus Measure to Automate the Location of Biological Tissue Surfaces in Brightfield Microscopy", 6/11 (with L. Hall)
42. Joshua Kidd, "Detecting Surface Oil using Unsupervised Learning Techniques on MODIS Satellite Data, 5/12 (with L. Hall)
43. Owen Watson, "Full 3D Reconstruction from Multiple RGB-D Cameras", 5/13 (with S. Sarkar)
44. Chih-Yun Pai, "Automatic Pain Assessment from Infant's Crying Sounds", 12/16
45. Palak Dave, "A Quantitative Analysis of Shape Characteristics of Marine Snow Particles with Interactive Visualization: Validation of Assumptions in Coagulation Models" 8/17 (with K. Daly)

PUBLICATIONS (citations impact: h-index 52, g-index 95)**Journal:**

1. R. Zhi, G. Zamzmi, D. Goldgof, T. Ashmeade, T. Li, Y. Sun, "Infants' Pain Recognition based on Facial Expression: Dynamic Hybrid Descriptions", *IEICE Transactions on Information and Systems*, vol. E101D, NO.7, July 2018.
2. R. Zhi, G. Zamzmi, D. Goldgof, T. Ashmeade, T. Li, Y. Sun, "Automatic Infants Pain Assessment by Dynamic Facial Representation: Effects of Profile View, Gestational Age, Gender, and Race", *Journal of Clinical Medicine*, 7(7), 173, July 2018, doi: 10.3390/jcm7070173
3. R. Paul, S. Hawkins, M. Schabath, R. Gillies, L. Hall, D. Goldgof, "Predicting Malignant Nodules by Fusing Deep Features with Classical Radiomics Features", *Journal of Medical Imaging*, 5(1), 011021 (2018), doi: 10.1117/1.JMI.5.1.011021
4. Y. Balagurunathan, A. Beers, J. Kalpathy-Cramer, M. McNitt-Gray, L. Hadjiiski, B. Zhao, J. Zhu, H. Yang, S. Yip, H. Aerts, S. Napel, D. Cherezov, K. Cha, H. Chan, C. Flores, A. Garcia, R. Gillies, D. Goldgof, Semi-Automated Pulmonary Nodule Interval Segmentation using the NLST Data, *Medical Physics*, v.45(3), pp. 1093-1107, March 2018.
5. G. Zamzmi, R. Kasturi, D. Goldgof, R. Zhi, T. Ashmeade, Y. Sun, "A Review on Automated Pain Assessment for Infants: Features, Classification Tasks, and Databases", *IEEE Reviews in Biomedical Engineering*, 2018, doi: 10.1109/RBME.2017.2777907.
6. M. Zhou, J. Scott, B. Chaudhury, L. Hall, D. Goldgof, K. Yeom, M. Iv, Y. Ou, J. Kalpathy-Cramer, S. Napel, R. Gillies, O. Gevaert, R. Gatenby, "Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors and Machine-learning Approaches", *American Journal of Neuroradiology*, October 2017, DOI: <https://doi.org/10.3174/ajnr.A5391>.
7. H. Phoulady, D. Goldgof, L. Hall, P. Mouton, "A Framework for Nucleus and Overlapping Cytoplasm Segmentation in Cervical Cytology Extended Depth of Field and Volume Images", *Computerized Medical Imaging and Graphics*, v.59, pp. 38-49, 2017, doi: 10.1016/j.cmi.2017.03.001
8. M. Shafiq-ul-Hassan, G. Zhang, K. Latifi, G. Ullah, D. C. Hunt, Y. Balagurunathan, M. A. Abdullah, M.B. Schabath, D. G. Goldgof, D. Mackin, L. E. Court, R. J. Gillies, E. G. Moros, "Intrinsic dependencies of CT radiomic features on voxel size and number of gray levels", *Medical Physics*, March 2017, v.44(3), pp. 1050-1062, DOI: 10.1002/mp.12123,
9. P. Mouton, H. Phoulady, D. Goldgof, L. Hall, M. Gordon, D. Morgan, "Unbiased Estimation of Cell Number Using the Automatic Optical Fractionator", *Journal of Chemical Neuroanatomy*, v80 (A1-A8), 2017.
10. R. Beichel, B. Smith, J. Ulrich, C. Bauer, P. Ahmadvand, M. Budzevich, R. Gillies, D. Goldgof, M. Grkovski, G. Hamarneh, Q. Huang, P. Kinahan, C. Laymon, E. Moros, J. Mountz, J. Muzi, M. Muzi, S. Nehmeh, M. Oborski, Y. Tan, B. Zhao, J. Sunderland, J. Buatti, "Multi-site Quality and Variability Analysis of 3D FDG PET Segmentations based on Phantom and Clinical Image Data", *Medical Physics*, February 2017, V.44(2), pp. 479-496, DOI: 10.1002/mp.12041, **Editor's Choice Article - 2017**.
11. J. Kalpathy-Cramer, A. Mamomov, B. Zhao, L. Lu, D. Cherezov, S. Napel, S. Echeagaray, M. McNitt-Gray, P. Lo, J.C. Sieren, J. Uthoff, S.K.N. Dilger, B. Driscoll, I. Yeung, L. Hadjiiski, K. Cha, Y. Balagurunathan, R. Gillies, D. Goldgof, "Radiomics of lung nodules: a multi-institutional study of robustness and agreement of quantitative imaging features", *Tomography Journal*, Special QIN Issue, V.2(4), pp. 430-437, 2016, DOI: 10.18383/j.tom.2016.00235.
12. R. Paul, S. Hawkins, Y. Balagurunathan, M. Schabath, R. Gillies, L. Hall, D. Goldgof, "Deep Feature Transfer Learning in Combination with Traditional Features Predicts Survival among Patients with Lung Adenocarcinoma", *Tomography Journal*, Special QIN Issue, 2016, v.2(4), pp. 388-395, 2016, DOI: 10.18383/j.tom.2016.00211
13. M. Zhou, B. Chaudhury, L. Hall, D. Goldgof, R. Gillies, R. Gatenby, "Identifying Spatial Imaging Biomarkers of Glioblastoma Multiforme for Survival Group Prediction", *Journal of Magnetic Resonance Imaging*, 2016, Online: 28 September 2016, DOI: 10.1002/jmri.25497.
14. S. Hawkins, H. Wang, Y. Liu, A. Garcia, O. Stringeld, H. Krewer, Q. Li, D. Cherezov, R. Gatenby, Y. Balagurunathan, D. Goldgof, M. Schabath, L. Hall, R. Gillies, "Predicting malignant nodules from screening CTs", *Journal of Thoracic Oncology*, 2016, DOI: 10.1016/j.jtho.2016.07.002. **Editor's Choice Article - 2017**.
15. J. Kalpathy-Cramer, B. Zhao, D. Goldgof, Y. Gu, X. Wang, H. Yang, Y. Tan, R. Gillies, S. Napel, "A Comparison of Lung Nodule Segmentation Algorithms: Methods and Results from a Multi-institutional Study", *Journal of Digital Imaging*, (2016) 29: 476-486, Online: 03 February 2016, DOI 10.1007/s10278-016-9859-z.

16. R. Ekambaram, S. Fefilatyeu, K. Kramer, M. Shreve, L. Hall, D. Goldgof, R. Kasturi, "Active Cleaning of Label Noise", *Pattern Recognition*, v 51(C), pp. 463-480, 2016, doi:10.1016/j.patcog.2015.09.020.
17. B. Lin, Y. Sun, X. Qian, D. Goldgof, R. Gitlin, Y. You, "Video Based 3D Reconstruction, Laparoscope Localization, and Deformation Recovery for Abdominal Minimally Invasive Surgery: A Survey", *The International Journal of Medical Robotics and Computer Assisted Surgery*, 2015, DOI: 10.1002/rcs.1661.
18. I. Soto, J. Cannizzaro, F. Muller-Karger, C. Hu, J. Wolny, D. Goldgof, "Evaluation and Optimization of Remote Sensing Techniques for Detection of *Karenia brevis* blooms on the West Florida Shelf", *Remote Sensing of Environment*, vol. 170, pp. 239-254, 2015
19. B. Chaudhury, M. Zhou, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, B. Patel, R. Weinfurter, J. Drukteinis, "Heterogeneity in intratumoral regions with rapid gadolinium washout correlates with ER status and nodal metastasis" *Journal of Magnetic Resonance Imaging*, vol. 42(5), pp. 1421-1430, 2015.
20. N. Obuchowski, A. Reeves, E. Huang, X. Wang, A. Buckler, H. Kim, H. Barnhart, E. Jackson, M. Giger, G. Pennello, A. Toledano, J. Kalpathy-Cramer, T. Apanasovich, P. Kinahan, K. Myers, D. Goldgof, Daniel P. Barboriak, R. Gillies, L. Schwartz, D. Sullivan, "Quantitative Imaging Biomarkers: A Review of Statistical Methods for Computer Algorithm Comparisons", *Statistical Methods in Medical Research*, vol. 24(1), pp. 68-106, 2015
21. S. Hawkins, J. Korecki, Y. Balagurunathan, Y. Gu, V. Kumar, S. Basu, L. Hall, D. Goldgof, R. Gatenby, R. Gillies, "Predicting Prognosis of Non-Small Cell Lung Cancer Using CT Image Features", *IEEE Access*, vol. 2, pp. 1418-1426, 2014
22. Y. Balagurunathan, V. Kumar, Y. Gu, J. Kim, H. Wang, S. Basu, R. Korn, B. Zhao, D. Goldgof, L. Hall, L. Schwartz, S. Eschrich, R. Gatenby, R. Gillies, "Test-Retest Reproducibility Analysis of Lung CT Image Features", *Journal of Digital Imaging*, v27(6) pp. 805-823, 2014.
23. M. Shreve, J. Brizzi, S. Fefilatyeu, T. Lueg, D. Goldgof, S. Sarkar, "Automatic Expression Spotting in Videos", *Image and Vision Computing*, vol. 32(8), pp. 476-486, 2014.
24. Y. Balagurunathan, Y. Gu, H. Wang, V. Kumar, O. Grove, S. Hawkins, J. Kim, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, "Reproducibility and Prognosis of Quantitative features extracted from CT images", *Translational Oncology*, vol. 7(1), pp. 72-87, 2014.
25. M. Zhou, L. Hall, D. Goldgof, R. Russo, Y. Balagurunathan, R. Gillies, R. Gatenby, "Radiologically defined ecological dynamics and clinical outcomes in Glioblastoma Multiforme", *Translational Oncology*, vol. 7(1), pp. 5-13, 2014.
26. M. Shreve, T. Lueg, M. Pamplona, D. Goldgof, S. Sarkar. "High-resolution 3D Surface Strain using 2D Camera and Low-resolution Depth Sensor", *Pattern Recognition Letters*, Special Issue on Depth Image Analysis, vol. 50(12), pp. 34-42, 2014.
27. Y. Gu, V. Kumar, L. Hall, D. Goldgof, C. Li, R. Korn, C. Bendtsen, E. Velazquez, A. Dekker, H. Aerts, P. Lambin, X. Li, J. Tian, R. Gatenby, R. Gillies, "Automated Delineation of Lung Tumors from CT Images Using a Single Click Ensemble Segmentation Approach", *Pattern Recognition*, vol. 46(3), pp. 692-702, 2013.
28. E. Velazquez, H. Aerts, Y. Gu, D. Goldgof, D. Ruysscher, R. Korn, R. Gillies, P. Lambin, "A semiautomatic CT-based ensemble segmentation method of lung tumors: comparison with oncologists delineations and validation with surgical specimen", *Radiotherapy and Oncology*, vol. 105(2), pp. 167-173, 2012.
29. D. Elozory, K. Kramer, B. Chaudhuri, D. Goldgof, L. Hall, P. Mouton, "Automatic Section Thickness Determination Using an Absolute Gradient Focus Function", *Journal of Microscopy*, vol. 248(3), pp. 245-259, 2012.
30. S. Fefilatyeu, D. Goldgof, M. Shreve, C. Lembke, "Detection and Tracking of Ships in Open Sea with Rapidly Moving Buoy-Mounted Camera System", *Ocean Engineering*, vol. 54, pp. 1-12, 2012.
31. V. Kumar, Y. Gu, S. Basu, A. Berglund, S. Eschrich, M. Schabath, K. Forster, H. Aerts, A. Dekker, D. Fenstermacher, D. Goldgof, L. Hall, P. Lambin, Y. Balagurunathan, R. Gatenby, R. Gillies, "Radiomics: The Process and the Challenges", *Magnetic Resonance Imaging*, vol. 30(9), pp. 1234-1248, 2012.
32. J. Canul-Reich, L. Hall, D. Goldgof, J. Korecki, S. Eschrich, "Iterative feature perturbation as a gene selector for microarray data", *International Journal of Pattern Recognition and Artificial Intelligence*, Vol. 26, No. 5, 2012.
33. L. Hall, D. Goldgof, "Convergence of the Single-pass and Online Fuzzy C-Means Algorithms", *IEEE Transactions on Fuzzy Systems*, vol. 19(4), pp. 792-794, 2011.
34. V. Korzhova, D. Goldgof, G. Sisoiev, "Model-based Recovery of Fluid Flow Parameters from Video" *International Journal of Pattern Recognition and Artificial Intelligence*, vol. 25(3), pp. 309-336, 2011.
35. G. Sisoiev, D. Goldgof, V. Korzhova "Stationary spiral waves in film flow over a spinning disk," *Physics of Fluids*, vol. 22(5), pp. 052106-1-6, 2010.

36. J. Candamo, M. Shreve, D. Goldgof, D. Sapper, R. Kasturi, "Understanding Transit Scenes: A Survey on Human Behavior Recognition Algorithms", *IEEE Transactions on Intelligent Transportation Systems*, vol. 11(1), pp. 206-224, 2010. (Top Accessed paper for October 2010 and December 2010, **Best Papers 2010-2012: Best Survey Paper**)
37. S. Fefilyatyev, L. Chen, T. Ivanovskiy, L. Hall, D. Goldgof, H. Greenstien, C. Garrett, "Complications in Using Automated Methods to Increase Clinical Trial Accrual", *International Journal of Biomedical Engineering and Technology*, vol. 4(2), pp. 134-150, 2010.
38. K. Kramer, L. Hall, D. Goldgof, "Fast Support Vector Machines for Continuous Data", *IEEE Transactions on Systems, Man and Cybernetics, B*, vol 39(4), pp. 989-1001, 2009.
39. P. Hore, L. Hall, D. Goldgof, "A Scalable Framework For Cluster Ensembles", *Pattern Recognition*, vol 42, pp. 676-688, 2009.
40. R. Kasturi, D. Goldgof, P. Soundararajan, V. Manohar, Ra. Bower, J. Garofolo, M. Boonstra, V. Korzhovay, J. Zhang, "Framework for Performance Evaluation of Face, Text, and Vehicle Detection and Tracking in Video: Data, Metrics, and Protocol", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 31, no. 2, pp. 1-18, 2009.
41. P. Hore, L. Hall, D. Goldgof, Y. Gu, A. Maudsley, A. Darkazanli, "A Scalable Framework For Segmenting Magnetic Resonance Images", *Journal of Signal Processing Systems*, vol 54(1), pp. 183-203, 2009.
42. J. Candamo, R. Kasturi, D. Goldgof, S. Sarkar, "Detection of thin lines using low quality video from low altitude aircraft in urban settings", *IEEE Transactions on Aerospace and Electronic Systems (TAES)*, vol. 45, Issue 3, pp. 937-949, 2009
43. L. Tsap, M. Duchaineau, D. Goldgof, M. Shin, "Data-Driven Feature Modeling, Recognition and Analysis in a Discovery of Supersonic Cracks in Multimillion-Atom Simulations", *Pattern Recognition*, 40(9), 2400-2407, 2007.
44. Y. Zhang, D. Goldgof, S. Sarkar, L. Tsap, "A Sensitivity Analysis Method and Its Application in Physics-Based Nonrigid Motion Modeling", *Image and Vision Computing*, 25(3), 249-392, 2007.
45. Y. Zhang, L. Hall, D. Goldgof, S. Sarkar, "A Constrained Genetic Approach for Computing Material Property of Elastic Objects", *IEEE Transactions on Evolutionary Computation*, 10(3), 341- 357, 2006.
46. A. Maudsley, A. Darkazanli, J. Alger, L. Hall, N. Schuff, C. Studholme, Y. Yu, A. Ebel, A. Frew, D. Goldgof, Y. Gu, R. Pagare, F. Rousseau, K. Sivasankaran, B. J. Soher, P. Weber, K. Young, X. Zhu, "Comprehensive processing, display and analysis for in vivo MR spectroscopic imaging", *NMR IN Biomedicine* (19), 492503, 2006.
47. T. Luo, K. Kramer, D. Goldgof, L. Hall, S. Samson, A. Remsen, T. Hopkins, "Active Learning to Recognize Multiple Types of Plankton", *Journal of Machine Learning Research*, JMLR 6: 589-613, 2005.
48. Y. Zhang, D. Goldgof, S. Sarkar, L. Tsap, "A Modeling Approach for Burn Scar Assessment Using Natural Features and Elastic Property", *IEEE Transactions on Medical Imaging*, 23(10), pp. 1325-1329, 2004.
49. T. Luo, K. Kramer, D. Goldgof, L. Hall, S. Samson, A. Remsen, T. Hopkins, "Recognizing Plankton Images from the Shadow Image Particle Profiling Evaluation Recorder", *IEEE Transactions on Systems, Man and Cybernetics, B*, 34(4), pp. 1753-1762, 2004.
50. M. Powell, S. Sarkar, D. Goldgof, K. Ivanov, "A Methodology for Extracting Objective Color from Images", *IEEE Transactions on Systems, Man and Cybernetics, B*, 34(5), pp. 1964-1978, 2004.
51. E. Fink, P. Kokku, S. Nikiforou, L. Hall, D. Goldgof, J. Krischer, "Selection of Patients for Clinical Trials: An Interactive Web-Based System", *Artificial Intelligence in Medicine*, 31(3), 241-254, 2004.
52. M. C. Shin, L. V. Tsap, D. B. Goldgof, "Gesture Recognition Using Bezier Curves for Visualization Navigation from Registered 3-D Data", *Pattern Recognition*, 37(5), pp. 1011-1024, 2004.
53. S. Eschrich, J. Ke, L. Hall, D. Goldgof, "Fast Accurate Fuzzy Clustering Through Data Reduction", *IEEE Transactions on Fuzzy Systems*, 11(2), pp. 262-270, 2003.
54. A. Hoover, D. Goldgof, K. Bowyer, "Egomotion Estimation of a Range Camera Using the Space Envelope", *IEEE Transactions in Systems, Man and Cybernetics*, Special Issue on 3D Image Analysis and Modeling, 33(4), pp. 717-721, 2003.
55. C. Kambhamettu, D. Goldgof, M. He, P. Laskov, "3D Nonrigid Motion Analysis under Small Deformations", *Image and Vision Computing*, 21(3), pp. 229-245, 2003.
56. M. Zhang, L. Hall, D. Goldgof, "A Generic Knowledge-Guided Image Segmentation and Labeling System Using Fuzzy Clustering Algorithms", *IEEE Transactions on Systems, Man and Cybernetics*, 32(5), pp. 571-582, 2002.
57. M. Shin, D. Goldgof, K. Bowyer, "Comparisons of Edge Detector Performance Through Use in an Object Recognition Task", *Computer Vision and Image Understanding*, 84 (1), pp. 160-178, 2001.

58. L. Tsap, D. Goldgof, S. Sarkar, "Fusion of Physically-Based Registration and Deformation Modeling for Nonrigid Motion Analysis", *IEEE Transactions on Image Processing*, 10(11), pp. 1659-1669, 2001
59. L. Zhou, C. Kambhamettu, D. Goldgof, K. Palaniappan, A. Hasler, "Tracking Nonrigid Motion and Structure from 2D Satellite Cloud Images without Correspondences", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 23(11), pp. 1330-1336, 2001.
60. M. Powell, D. Goldgof, "Software Toolkit for Teaching Image Processing", *International Journal of Pattern Recognition and AI*, 15(5), pp. 833-844, 2001.
61. M. Powell, S. Sarkar, D. Goldgof, "A Simple Strategy for Calibrating the Geometry of Light Sources", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 23(9), pp. 1022-1027, 2001.
62. M. Shin, D. Goldgof, K. Bowyer, Nikiforou, S., "Comparison of Edge Detection Algorithms Using a Structure from Motion Task", *IEEE Transactions in System Man and Cybernetics*, 31B(4), pp. 589-601, 2001.
63. L. Fletcher-Heath, L. Hall, D. Goldgof, F. Murtagh, "Automatic Segmentation of Non-enhancing Brain Tumors in Magnetic Resonance Images", *Artificial Intelligence in Medicine*, 21, 43-63, 2001.
64. S. Kumar, M. Sallam, D. B. Goldgof, "Matching point features under small nonrigid motion", *Pattern Recognition*, 34(12), pp. 2353-2365, 2001 (Honorable Mention Award by the Pattern Recognition Society).
65. M. Zhang, L. O. Hall, D. B. Goldgof and F. E. Muller-Karger, "Knowledge-Guided Classification of Coastal Zone Color Images off the West Florida Shelf", *International Journal of Pattern Recognition and AI*, 14(8), pp. 987-1008, 2000.
66. S. Kumar, D. Goldgof, "Recovery of Global Nonrigid Motion - a Model Based Approach Without Point Correspondences", *Journal of the Optical Society of America A*, 17(9), pp. 1617-1626, 2000.
67. L. Tsap, D. Goldgof, S. Sarkar, "Nonrigid Motion Analysis Based on Dynamic Refinement of Finite Element Models", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 22(5), pp. 526-543, 2000.
68. L. Tsap, D. Goldgof, S. Sarkar, P. Powers, "A Method for Increasing Precision and Reliability of Elasticity Analysis in Complicated Burn Scar Cases", *International Journal of Pattern Recognition and AI*, 14(2), pp. 189-210, 2000.
69. M. Zhang, K. Carder, Z. Lee, F. Muller-Karger, D. Goldgof, "Noise reduction and Atmospheric Correction for Coastal Applications of Landsat Thematic Mapper Imagery", *Remote Sensing of Environment*, 70:167-180, 1999.
70. L. Tsap, D. Goldgof, S. Sarkar, "Model-Based Force-Driven Nonrigid Motion Recovery from Sequences of Range Images without Point Correspondences", *Image and Vision Computing*, 17(14), pp. 997-1008, 1999.
71. P. Powers, S. Sarkar, D. Goldgof, C. W. Cruse, L. Tsap, "Scar assessment: current problems and future solutions", *Journal of Burn Care & Rehabilitation*, 20(1), pp. 54-60, 1999.
72. A. Hoover, D. Goldgof, K. Bowyer, "Dynamic Scale Model Construction from Range Imagery", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 20(12), pp. 1352-1357, 1998.
73. L. Tsap, D. Goldgof, S. Sarkar, P. Powers, "A Vision-Based Technique for Objective Assessment of Burn Scars", *IEEE Transactions on Medical Imaging*, 17(4), pp. 620-633, 1998.
74. S. Sarkar, D. Goldgof, "Integrating Image Computations in Undergraduate Level Data Structures Education", *International Journal of Pattern Recognition and AI*, 12(8), pp. 1071-1080, 1998.
75. M. Clark, L. Hall, D. Goldgof, R. Velthuizen, F. Murtagh, M. Silberger, "Automatic Tumor Segmentation Using Knowledge-Based Techniques", *IEEE Trans. Medical Imaging*, 17(2), pp. 187-201. 1998.
76. Clarke LP, Velthuizen RP, Clark M, Gaviria G, Hall L, Goldgof D, Murtagh R, Phuphanich S and Brem S. "MRI Measurement of Brain Tumor Response: Comparison of Visual Metric and Automatic Segmentation", *Magnetic Resonance Imaging*, 16(3), 271-279, 1998.
77. A. Hoover, D. Goldgof, K. Bowyer, "The Space Envelope Representation for 3D Scenes", *Computer Vision and Image Understanding*, vol. 69, no. 3, pages 310-329, 1998.
78. L. Tsap, D. Goldgof, S. Sarkar, "Efficient Nonlinear Finite Element Modeling of Nonrigid Objects via Optimization of Mesh Models", *Comp. Vision and Image Understanding*, 69(3), pp. 330-350, 1998.
79. T. W. Cheng, D. B. Goldgof and L. O. Hall, "Fast fuzzy clustering", *International Journal for Fuzzy Sets and Systems*, 93(1), pp. 49-56, 1998.
80. J. C. Bezdek, L. O. Hall, M. C. Clark, D. B. Goldgof, L. P. Clarke, "Medical image analysis with fuzzy models", *Stat. Meth. in Medical Research*, no. 6, 191-214, 1997.
81. Stark, L., Bowyer, K.W., Hoover, A.W., Goldgof, D.B. "Recognizing Object Function Through Reasoning About Partial Shape Descriptions and Dynamic Physical Properties", *Proceedings of the IEEE*, 84(11), pp. 1640-1658, 1996.

82. A. Hoover, G. Jean-Baptiste, X. Jiang, P. Flynn, H. Bunke, D. Goldgof and K. Bowyer, "A Comparison of Range Segmentation Algorithms", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 18(7), pp. 673-689, 1996.
83. S. Kumar, S. Han, D. B. Goldgof and K. W. Bowyer, "On Recovering Hyperquadrics from Range Data", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 17(11), pp. 1079-1083, 1995.
84. A. Matheny and D. B. Goldgof, "The Use of Three- and Four-Dimensional Surface Harmonics for Rigid and Nonrigid Shape Recovery and Representation", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 17(10), pp. 967-981, 1995.
85. A. Hoover, D. B. Goldgof and K. W. Bowyer, "Extracting a Valid Boundary Representation from a Segmented Range Image", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 17(9), pp. 920-924, 1995.
86. H.-K. Tu, A. Matheny, D. B. Goldgof, and H. Bunke, "Left Ventricular Boundary Detection from Spatio-Temporal Volumetric CT Images", *Journal of Computerized Medical Imaging and Graphics*, Special Issue on *Cardiac Image Processing*, 19(1), pp. 27-46, 1995.
87. M. C. Clark, L. O. Hall, D. B. Goldgof, L. P. Clarke, R. Velthuizen, M. Silberger, "MRI Segmentation using Fuzzy Clustering Techniques: Integrating Knowledge", *IEEE Engineering in Medicine and Biology Magazine*, Special Issue on *Fuzzy Logic in Medicine*, v13(5), pp. 730-742, 1994.
88. C. Kambhamettu and D. B. Goldgof, "Curvature-Based Approach to Point Correspondence Recovery in Nonrigid Motion", *CVGIP: Image Understanding* 60(1), pp. 26-43, 1994.
89. S. Kumar, N. Ranganathan and D. B. Goldgof, "Parallel Algorithms for Circle Detection on a Mesh-Connected Array of Processors", *Pattern Recognition*, 27(8), pp. 1019-1028, 1994.
90. S. Kumar and D. B. Goldgof, "Automatic tracking of SPAMM grid in MRI images", *IEEE Transactions on Medical Imaging*, 13(1), pp. 122-132, 1994.
91. C.-T. Lin, D. B. Goldgof and W.-C. Huang, "Motion Estimation without Correspondences from Scaled Orthographic Projections", *Image and Vision Computing*, 12(2), pp. 95-108, 1994.
92. S. K. Mishra, D. B. Goldgof and C. Kambhamettu, "Estimating Nonrigid Motion from Point and Line Correspondences", *Pattern Recognition Letters*, 15(6), pp. 559-566, 1994.
93. W.-C. Huang and D. B. Goldgof, "Reconstruction and Analysis of Sequential Images Using Adaptive-Size Meshes", *Journal of Visual Communication and Image Representation*, Special Issue on *Image Sequence Processing and Motion Analysis in Visual Communications*, 4(4), pp. 364-381, 1993.
94. C. Li, D. B. Goldgof and L. O. Hall, "Automatic Segmentation and Tissue Labeling of MR Brain Images", *IEEE Transactions on Medical Imaging*, 12(4), pp. 740-750, 1993.
95. D. Eggert, K. Bowyer, C. Dyer, H. Christensen, D. Goldgof, "The Scale Space Aspect Graph", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 15(11), pp. 1114-1130, 1993.
96. M. He, D. B. Goldgof, and C. Kambhamettu, "Variation of Gaussian Curvature Under Conformal Mapping and its Applications", *International Journal of Computers & Mathematics with Applications*, 26(1), pp. 63-74, 1993.
97. W.-C. Huang and D. B. Goldgof, "Adaptive-Size Meshes for Rigid and Nonrigid Shape Analysis and Synthesis", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Special Issue on *3D Modeling for Image Analysis and Synthesis*, 15(6), pp. 611-616, 1993.
98. S. K. Mishra, C. Kambhamettu, D. B. Goldgof, T. S. Huang, "Curvature-Based Nonrigid Motion Analysis from 3D Point Correspondences", *International Journal of Imaging Systems and Technology*, 4, pp. 214-225, 1992.
99. D. B. Goldgof, H. Lee, T. S. Huang, "Matching and Motion Estimation of 3-D Point and Line Sets using Eigenstructure without Correspondences", *Pattern Recognition*, 25(3), pp. 271-286, 1992 (most original manuscript in 1992 - Nineteenth Annual Pattern Recognition Society Award).
100. D. B. Goldgof, T. S. Huang, H. Lee, "Terrain Analysis from Curvature Profiles", *International Journal of Imaging Systems and Technology*, 2, pp. 169-182, 1990.
101. D. B. Goldgof, T. S. Huang, H. Lee, "Curvature-Based Approach to Terrain Recognition", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 11(11), pp. 1213-1217, 1989.

Books:

1. Xiaoyi Jiang, Olga Regina Pereira Bellon, Dmitry Goldgof, Takeshi Oishi, Editors, *Advances in Depth Image Analysis and Applications*, International Workshop, WDIA 2012, Tsukuba, Japan, November 11, 2012, Revised Selected and Invited Papers, Springer, Lecture Notes in Computer Science, Volume 7854, 2013.

2. A. Bovik, C. Chen, D. Goldgof, Editors, *Advances in Image Processing and Understanding: A Festschrift for Thomas S Huang*, Series in Machine Perception and Artificial Intelligence - Vol. 52, World Scientific, 2002.
3. A. Singh, D. Goldgof, D. Terzopoulos, Editors, *Deformable Models in Medical Image Analysis*, IEEE Computer Society Press, 1998.
4. R. Acharya, D. Goldgof, Editors, *Biomedical Image Processing and Biomedical Visualization*, Proceedings of SPIE, v. 1905, San Jose, CA, SPIE Press, 1993.
5. R. Acharya, C. Cogswell, D. Goldgof, Editors, *Biomedical Image Processing and Three-Dimensional Microscopy*, Proceedings of SPIE, v. 1660, San Jose, CA, SPIE Press, 1992.

Book Chapters:

1. G. Alzamzmi, C. Pai, D. Goldgof, R. Kasturi, T. Ashmeade, Y. Sun, "Automated Pain Assessment in Neonates", In: Sharma P., Bianchi F. (eds) *Image Analysis. SCIA 2017. Lecture Notes in Computer Science*, vol 10270. Springer, pp. 350-361, 2017.
2. M. Shreve, S. Fefilyayev, N. Bonilla, G. Hernandez, D. Goldgof, S. Sarkar, "Method for Calculating View-Invariant 3D Optical Strain", Published in Springer "Advances in Depth Image Analysis and Applications", Lecture Notes in Computer Science, Volume 7854/2013, pp. 42-49.
3. M. Shreve, N. Jain, D. Goldgof, W. Kropatsch, C. Tzou, M. Frey, "Evaluation of Facial Reconstructive Surgery on Patients with Facial Palsy using Optical Strain", Published in Springer *COMPUTER ANALYSIS OF IMAGES AND PATTERNS*, Lecture Notes in Computer Science, 2011, Volume 6854/2011, pp. 512-519.
4. Lawrence Hall, Dmitry Goldgof, Juana Canul-Reich, Prodip Hore, Weijian Cheng and Larry Shoemaker, "Scaling Fuzzy Models", Chapter 2 of *Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design*, A. Laurent, M-J Lesot (eds.), pp. 31-53, IGI Global, 2010 (ISBN13: 9781605668581).
5. V. Korzhova, D. Goldgof, G. Sisoiev, "Optical Measurement of 3D Fluid Waves in Video", in *Optical 3-D Measurement Techniques IX*, A. Grn, H. Kahmen (ed.), pp. 231-240, Volume II (2009), ISBN: 978-3-9501492-5-8.
6. Yong Zhang, Dmitry Goldgof and Sudeep Sarkar, "Towards Physically-Sound Registration Using Object-Specific Properties for Regularization" in *Biomedical Image Registration*, J. C. Gee, A. Maintz, M. W. Vannier, eds., pp. 358-366, Lecture Notes in Computer Science, Springer-Verlag 2003.
7. W.-C. Huang and D. Goldgof, "Left-ventricle motion modeling and analysis by adaptive-size physically-based models", in *Medical Image Analysis*, Selected SPIE Papers on CD-ROM, Volume 13, K. Hanson, ed., 2001.
8. M. Clark, L. Hall, D. Goldgof, R. Velthuizen, F. Murtagh, M. Silberger, "Automatic tumor segmentation using knowledge-based techniques", in *IMIA Yearbook of Medical Informatics*, J. van Bommel, A. McCray, eds, pp. 296-310, Schattauer, 2000.
9. L. Tsap, D. Goldgof, S. Sarkar, "Utilization of FEM Modeling for Image-based Soft Tissue Analysis", in *The Handbook of Medical Imaging - Volume III: Progress in Medical Image Processing and Analysis*, J. M. Fitzpatrick, M. Sonka, eds, pp. 1153 - 1201, SPIE 2000.
10. L. Zhou, C. Kambhamettu, D. Goldgof, "Structure and Nonrigid Motion Analysis of Satellite Cloud Images", in *Computer Vision, Graphics and Image Processing. Recent Advances*, S. Chaudhury, S. Nayar, eds, Viva Books, pp. 285-291, 1999
11. Singh, A, Goldgof, B., Terzopoulos, D., "An Overview of Motion Analysis and Tracking Issues in Medical Image Analysis", in *Deformable Models in Medical Image Analysis*, Chapter 18, CS Press, 1998.
12. C. Kambhamettu, D. B. Goldgof, D. Terzopoulos, T. S. Huang, "Nonrigid Motion Analysis", in *Deformable Models in Medical Image Analysis*, Chapter 19, CS Press, 1998.
13. S. Kumar, D. B. Goldgof, "Automatic Tracking of SPAMM Grid and the Estimation of Deformation Parameters from Cardiac MR Images", in *Deformable Models in Medical Image Analysis*, Chapter 22, CS Press, 1998.
14. C. Kambhamettu and D. B. Goldgof, "Curvature-Based Approach to Point Correspondence Recovery in Nonrigid Motion", in *Deformable Models in Medical Image Analysis*, Chapter 23, CS Press, 1998.
15. M. Clark, L. Hall, D. Goldgof, R. Velthuizen, F. Murtagh, M. Silberger, "Unsupervised Brain Tumor Segmentation Using Knowledge-Based and Fuzzy Techniques", in *Applications of Neuro-Fuzzy Systems in Medicine and Bio-Medical Engineering*, H. N. Teodorescu, A. Kandel, L. C. Jain, eds, Chapter 6, CRC Press LLC, 1998.

16. M. Shin, D. Goldgof, K. Bowyer, "Evaluation of edge detectors using a Structure from Motion Task", in *Empirical Evaluation Techniques in Computer Vision*, K. Bowyer, P. Phillips, editors, IEEE Computer Society Press, pp. 235-254, 1998.
17. Clark, M., Hall, L., Goldgof, D., and Silberger, M., "Using Fuzzy Information in Knowledge Guided Segmentation of Brain Tumors", in *Fuzzy Logic in AI: Towards Intelligent Systems*, Lecture Notes in AI 1188, Cabonell, J.G and Siekman, J, editors, Springer-Verlag, pp. 167-181, 1997.
18. Bezdek, J. C., Hall, L. O., Clark, M., Goldgof, D. and Clarke, L. P., "Segmenting medical images with fuzzy models: an update", in *Fuzzy Information Engineering*, Dubois, D., Prade, H. and Yager, R., editors, Wiley, NY, pp. 69-92, 1997.
19. A. Hoover, D. Goldgof, L. Stark, K. Bowyer, "Function-Based Analysis using Partial Shape", *Generic Recognition using Form and Function*, L. Stark, K. Bowyer, editors, World Scientific, Chapter VIII, pp. 67-79 , 1996.
20. C. Kambhamettu, D. B. Goldgof, D. Terzopoulos, T. S. Huang, "Nonrigid Motion Analysis", Chapter 11, *Handbook of Pattern Recognition and Computer Vision, Volume 2: Computer Vision* T.Y. Young, editor, Academic Press, 1994.
21. D. Eggert, K. W. Bowyer, C. Dyer, H. Christensen, D. B. Goldgof, "Applying the Scale Space Concept to Perspective Projection Aspect Graphs", in *Theory and Applications of Image Analysis*, P. Johansen and S. Olsen, editors, pp. 48 - 62, World Scientific Publishing Company, 1992.

CONFERENCE PUBLICATIONS

Conference - 2016 - 2018:

1. M. Peterson, C. Pai, H. Morera, K. Hall, L. Cowan, S. Sarkar, D. Goldgof, "Automated Pressure Ulcer Measurement for Veterans with Spinal Cord Injury", *Advanced Treatments and Technologies in Wound Care*, London, UK, 10/2018 (abstract only).
2. R. Paul, L. Hall, D. Goldgof, M. Schabath, R. Gillies, "Predicting Nodule Malignancy using a CNN Ensemble Approach", *The International Joint Conference on Neural Networks (IJCNN)*, Rio, Brazil, 7/2018.
3. R. Paul, Y. Liu, Q. Li, L. Hall, D. Goldgof, Y. Balagurunathan, M. Schabath, R. Gillies, "Representation of Deep Features using Radiologist defined Semantics", *The International Joint Conference on Neural Networks (IJCNN)*, Rio, Brazil, 7/2018.
4. R. Paul, M. Shafiq-ul-Hassanb, E. Moros, R. Gillies, L. Hall, D. Goldgof, "Stability of deep features across CT scanners and field of view using a physical phantom", *SPIE Medical Imaging 2018*, Houston, CA, 2/2018.
5. J. Kalpathy-Cramer, B Zhao, D Goldgof, S Napel, D L Rubin, M F McNitt-Gray, J Sieren, I Yeung, L Hadjiiski, Y Balagurunathan, A Beers, "Standardizing Radiomic Feature Descriptions for Quantitative Imaging: A Preliminary Report of the Cooperative Efforts of the NCI's QIN PET-CT Subgroup", Education Exhibit, RSNA 2017, Chicago, IL, 12/2017
6. R. Liu, L. Hall, K. Bowyer, D. Goldgof, R. Gatenby, K. Ahmed, "Synthetic Minority Image Over-sampling Technique: How to Improve AUC for Glioblastoma Patient Survival Prediction", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2017)*, Bunff, Canada, 10/2017.
7. R. Ekambaram, D. Goldgof, L. Hall, "Finding Label Noise Examples in Large Scale Datasets", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2017)*, Bunff, Canada, 10/2017.
8. G. Alzamzmi, C. Pai, D. Goldgof, R. Kasturi, T. Ashmeade, Y. Sun, "Automated Pain Assessment in Neonates", *Scandinavian Conference on Image Analysis (SCIA 2017)*, Tromso, Norway, 6/2017.
9. G. Alzamzmi, D. Goldgof, R. Kasturi, Y. Sun, T. Ashmeade, "Automated Multimodal Assessment of Infants Pain", *Pediatric Academic Societies (PAS) 2017 Meeting*, San Francisco, CA, 5/2017 (abstract).
10. K. Ahmed, . Hall, D. Goldgof, R. Liu, R. Gatenby, "Fine-Tuning Convolutional Deep Features For MRI Based Brain Tumor Classification", *SPIE Medical Imaging 2017*, Orlando, CA, 2/2017.
11. G. Alzamzmi, D. Goldgof, R. Kasturi, Y. Sun, T. Ashmeade, C. Pai, "An Approach for Automated Multimodal Analysis of Infants Pain", *International Conference on Pattern Recognition (23rd ICPR)*, Cancun, Mexico, 12/2016.
12. H. Phoulady, D. Goldgof, L. Hall, M. Gordon, D. Morgan, "Tg4510 Mice Provide an Effective Model for Testing Neuroprotective Therapies in Early Stage Alzheimers Disease, 2016 Annual Meeting of the Society For Neuroscience, San Diego, CA, 11/2016 (abstract).
13. D. Cherezov, S. Hawkins,, D. Goldgof, L. Hall, Y. Balagurunathan, R. Gillies, M. Schabath, "Improving Prediction through Selecting Features Informed by Nodule Size Ranges in NLST", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2016)*, Budapest, Hungary, 10/2016.
14. R. Paul, S, Hawkins, L. Hall , D. Goldgof, R. Gillies, "Combining Deep Neural Network and Traditional Image Features to Improve Survival Prediction Accuracy for Lung Cancer Patients from Diagnostic CT", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2016)*, Budapest, Hungary, 10/2016.
15. H. Farhidzadeh, B. Chudhury, J. Scott, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, M. Raghavan, "A Quantitative Histogram-based Approach to Predict Treatment Outcome for Soft Tissue Sarcoma Using Pre- and Post-treatment MRIs", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2016)*, Budapest, Hungary, 10/2016.
16. H. Phoulady, M. Zhou, D. Goldgof, L. Hall, P. Mouton, "Automatic Quantification and Classification of Cervical Cancer via Adaptive Nucleus Shape Modeling", *IEEE International Conference on Image Processing (ICIP 2016)*, Phoenix, AZ, 9/2016.
17. R. Liu, L. Hall, D. Goldgof, M. Zhou, R. Gatenby, K. Ahmed, "Exploring Deep Features from Brain Tumor Magnetic Resonance Images via Transfer Learning", *2016 International Joint Conference on Neural Networks, (IJCNN 2016)*, Vancouver, Canada, 7/2016.
18. H. Phoulady, D. Goldgof, L. Hall, P. Mouton, "An Approach to Detect and Segment Overlapping Cells in MultiLayer Cervical Cell Volume Images", *IEEE International Symposium on Biomedical Imaging (ISBI 2016)*, Prague, Czech Republic, 4/2016.

19. B. Chaudhury, M. Zhou, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, J. Drukteinis, "Predicting Ki67% expression from DCE-MR images of breast tumors using textural kinetic features in tumor habitats", *SPIE Medical Imaging 2016*, San Diego, CA, 2/2016.
20. H. Phoulady, D. Goldgof, L. Hall, P. Mouton, "Histology image segmentation with hierarchical multi-level thresholding", *SPIE Medical Imaging 2016*, San Diego, CA, 2/2016.
21. B. Geiger, S. Hawkins, L. Hall, D. Goldgof, Y. Balagurunathan, R. Gatenby, R. Gillies, "Change Descriptors for Predicting Tumor Malignancy in NLST CT Screening Images", *SPIE Medical Imaging 2016*, San Diego, CA, 2/2016.
22. H. Farhidzadeh, J. Scott, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, M. Raghavan, "Signal Intensity Analysis of Ecological Defined Habitat in Soft Tissue Sarcomas to Predict Metastasis Development", *SPIE Medical Imaging 2016*, San Diego, CA, 2/2016.
23. H. Farhidzadeh, J. Kim, J. Scott, D. Goldgof, L. Hall, L. Harrison, "Classification of Recurrence Free Survival Nasopharyngeal Carcinoma Tumors", *SPIE Medical Imaging 2016*, San Diego, CA, 2/2016.
24. M. Schabath, Y. Liu, H. Wang, O. Stringfield, Y. Balagurunathan, A. Garcia, L. Hall, D. Goldgof, R. Gillies, "Diagnostic and predictive quantitative-imaging features in lung cancer screening" *Fourth AACR-IASLC International Joint Conference: Lung Cancer Translational Science from the Bench to the Clinic*, San Diego, CA, 1/2016 (abstract).
25. M. Schabath, Y. Balagurunathan, A. Garcia, D. Goldgof, L. Hall, S. Hawkins, O. Stringfield, Q. Li, Y. Liu, R. Gillies, "Radiomics of lung cancer", *Fourth AACR-IASLC International Joint Conference: Lung Cancer Translational Science from the Bench to the Clinic*, San Diego, CA, 1/2016 (abstract).

Conference - 2011 - 2015:

26. M. Raghavan, H. Farhidzadeh, L. Hall, D. Goldgof, R. Gillies, R. Gatenby, "MRI Defined Ecologic Habitats in Extremity Soft Tissue Sarcomas: Characterization and Quantification of Tumor Heterogeneity and Potential Implications on Patient Outcomes-Early Experience", *Radiology Society of North America (RSNA) Annual Meeting*, Chicago, IL, 12/2015.
27. H. Farhidzadeh, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, M. Raghavan, "Texture feature analysis to predict metastatic and necrotic soft tissue sarcomas" *IEEE International Conference on Systems, Man and Cybernetics (SMC 2015)*, Hong Kong, 10/2015.
28. H. Zhou, D. Goldgof, S. Hawkins, L. Wei, Y. Liu, D. Creighton, R. Gillies, L. Hall, S. Nahavandi, "A robust approach for automated lung segmentation in thoracic CT", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2015)*, Hong Kong, 10/2015.
29. B. Chaudhury, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, J. Drukteinis, "Correlation based random subspace ensembles for predicting number of axillary lymph node metastases in breast DCE-MRI tumors", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2015)*, Hong Kong, 10/2015.
30. H. Farhidzadeh, B. Chaudhury, M. Zhou, D. Goldgof, L. Hall, R. Gatenby, M. Raghavan, "MRI Texture Feature Analysis - Prediction of Metastasis and Histologic Response in Extremity Soft Tissue Sarcoma", *International Skeletal Society 42nd Annual Meeting*, Maui, Hawaii, 9/2015 (abstract).
31. G. Alzamzmi, D. Goldgof, R. Kasturi, Y. Sun, T. Asmeade, G. Ruiz, "Pain Assessment in Infants: Towards Spotting the Pain Expression Based on the Facial Strain", *3rd International Workshop on Emotion Representation, Analysis and Synthesis in Continuous Time and Space (EmoSPACE 2015)*, Ljubljana, Slovenia, 5/2015.
32. H. Phoulady, D. Goldgof, L. Hall, P. Mouton, "An Approach for Overlapping Cell Segmentation in Multi-Layer Cervical Cell Volumes", *The Second Overlapping Cervical Cytology Image Segmentation Challenge*, IEEE ISBI, New York, NY, 4/2015, 1st Place.
33. B. Chaudhury, M. Zhou, D. Goldgof, L. Hall, R. Gatenby, R. Gillies, J. Drukteinis, "Identifying metastatic breast tumors using textural kinetic features of a contrast based habitat in DCE-MRI", *SPIE Medical Imaging 2015*, Orlando, FL, 2/2015.
34. H. Farhidzadeh, B. Chaudhury, M. Zhou, D. Goldgof, L. Hall, R. Gatenby, M. Raghavan, "Prediction of treatment outcome in soft tissue sarcoma based on radiologically defined habitats", *SPIE Medical Imaging 2015*, Orlando, FL, 2/2015.
35. M. Zhou, L. Hall, D. Goldgof, R. Gillies, R. Gatenby, "Decoding brain cancer dynamics: a quantitative histogram-based approach using temporal MRI", *SPIE Medical Imaging 2015*, Orlando, FL, 2/2015.
36. M. Zhou, L. Hall, D. Goldgof, R. Gillies, R. Gatenby, "Imbalanced learning for clinical survival group prediction of brain tumor patients", *SPIE Medical Imaging 2015*, Orlando, FL, 2/2015.

37. H. Phoulady, B. Chaudhury, D. Goldgof, L. Hall, P. Mouton, A. Hakam, E. Siegel, "Experiments in Large Ensemble for Segmentation and Classification of Cervical Cancer Biopsy Images", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2014)*, San Diego, CA, 10/2014.
38. J. Brizzi, M. Shreve, Dmitry Goldgof, S. Sarkar, "Optical Flow based Expression Suppression in Video", *International Conference on Pattern Recognition (ICPR)*, Stockholm, Sweden, 8/2014.
39. M. Zhou, L. Hall, D. Goldgof, R. Gillies, R. Gatenby, "Exploring Brain Tumor Heterogeneity for Survival Time Prediction", *International Conference on Pattern Recognition (ICPR)*, Stockholm, Sweden, 8/2014.
40. R. Kasturi, D. Goldgof, R. Ekambaram, G. Pratt, E. Krotkov, D. Hackett, et al., "Performance Evaluation of Neuromorphic-Vision Object Recognition Algorithms", *International Conference on Pattern Recognition (ICPR)*, Stockholm, Sweden, 8/2014.
41. M. Schabath, P. Massion, Z. Thompson, Y. Balagurunathan, D. Goldgof, S. Eschrich, R. Gillies, "Survival of patients with incident lung cancer following screening by computed tomography in the National Lung Screening Trial", *American Association for Cancer Research Annual Meeting*, San Diego, CA, 4/2014 (abstract).
42. J. Drukteinis, B. Chaudhury, L. Hall, D. Goldgof, R. Gillies, R. Gatenby, "Evolutionary dynamics in breast cancer via MRI textural kinetic analysis" *American Association for Cancer Research Annual Meeting*, San Diego, CA, 4/2014 (abstract).
43. Y. Balagurunathan, V. Kumar, Y. Gu, D. Goldgof, L. Hall, R. Gillies, "Test Retest Study in CT Images", *Society for Imaging Informatics in Medicine Annual Meeting (SIIM 2014)*, Long Beach, CA, 5/2014 (abstract).
44. M. Raghavan, H. Farhidzadeh, M. Zhou, D. Goldgof, L. Hall, R. Gatenby, "Image based prediction of treatment response and disease course in extremity soft tissue sarcoma", *Society of Skeletal Radiology 2014 Annual Meeting*, San Diego, CA, 3/2014 (abstract).
45. B. Chaudhury, L. Hall, D. Goldgof, R. Gatenby, R. Gillies, J. Drukteinis, "New method for predicting estrogen receptor status utilizing breast MRI texture kinetic analysis", *SPIE Medical Imaging 2014*, San Diego, CA, 2/2014.
46. H. Farhidzadeh, M. Zhou, D. Goldgof, L. Hall, M. Raghavan, R. Gatenby, "Prediction of treatment response and metastatic disease in soft tissue sarcoma", *SPIE Medical Imaging 2014*, San Diego, CA, 2/2014.
47. J. Kalpathy-Cramer, B. Zhao, D. Goldgof, Y. Gu, X. Wang, S. Napel, H. Yang, Y. Tan, "A platform for the comparison of lung nodule segmentation algorithms: methods and preliminary results" *Radiology Society of North America (RSNA) Annual Meeting*, Chicago, IL, 12/2013.
48. M. Zhou, L. Hall, D. Goldgof, R. Gatenby, R. Gillies, "A Texture Feature Ranking Model for Predicting Clinical Survival Time on Brain Tumor", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2013)*, Manchester, UK, 10/2013.
49. H. Krewer, B. Geiger, L. Hall, D. Goldgof, Y. Gu, M. Tockman, R. Gillies, "Effect of Texture Features in Computer Aided Diagnosis of Pulmonary Nodules in Low-Dose Computed Tomography", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2013)*, Manchester, UK, 10/2013.
50. B. Chaudhury, H. Phoulady, D. Goldgof, L. Hall, P. Mouton, "An Ensemble Algorithm Framework for Automated Stereology of Cervical Cancer", *The International Conference on Image Analysis and Processing (ICIAP)*, Naples, Italy, 9/2013.
51. S. Fefilyatsev, M. Shreve, D. Goldgof, "Detection of the Vanishing Line of the Ocean Surface from Pairs of Scale-Invariant Keypoints", *The International Conference on Image Analysis and Processing (ICIAP)*, Naples, Italy, 9/2013.
52. M. Segundo, S. Sarkar, D. Goldgof, L. Silva, O. Bellon, "Continuous 3D Face Authentication using RGB-D Cameras", *IEEE Biometrics Workshop, CVPR 2013*, Portland, OR, 6/2013.
53. M. Raghavan, M. Zhou, L. Hall, D. Goldgof, R. Gatenby, "Radiomics of Sarcoma-Computer Aided Image Analysis and Characterization of Tumor Heterogeneity", *Society of Skeletal Radiology 2013 Annual Meeting*, San Antonio, TX, 3/2013, (abstract).
54. M. Zhou, L. Hall, D. Goldgof, R. Gatenby, "Survival time prediction of patients with glioblastoma multiforme tumors using spatial distance measurement", *SPIE Medical Imaging 2013*, Orlando, FL, 2/2013.
55. M. Shreve, S. Fefilyatsev, N. Bonilla, G. Hernandez, D. Goldgof, S. Sarkar, "Method for Calculating View-Invariant 3D Optical Strain". *IAPR International Workshop on Depth Image Analysis*, Tsukuba Science City, Japan, 11/2012, (Published in Springer "Advances in Depth Image Analysis and Applications", Lecture Notes in Computer Science, Volume 7854/2013, pp. 42-49.

56. S. Fefilatyeu, M. Shreve, K' Kramer, L. Hall, D. Goldgof, R. Kasturi, K. Daly, A. Remsen, H. Bunke, "Label-Noise Reduction with Support Vector Machines", *International Conference on Pattern Recognition (ICPR)*, Tsukuba Science City, Japan, 11/2012.
57. B. Chaudhury, K. Kramer, D. Elozory, G. Hernandez, D. Goldgof, L. Hall, P. Mouton, "A Novel Algorithm for Automated Counting of Stained Cells on Thick Tissue Sections", *25th International Symposium on Computer-Based Medical Systems (CBMS 2012, IEEE/ACM)*, Rome, Italy, 6/2012.
58. S. Fefilatyeu, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, A. Remsen, K. Daly, "Detection of Anomalous Particles from Deepwater Horizon Oil Spill Using SIPPER3 Underwater Imaging Platform", *Fourth Workshop on Data Mining Case Studies, IEEE International Conference on Data Mining(ICDM)*, Vancouver, Canada, 12/2011, *Data Mining Practice Prize*.
59. S. Basu, L. Hall, D. Goldgof, Y. Gu, V. Kumar, J. Choi, R. Gilles, R. Gatenby, "Developing a Classifier Model for Lung Tumors in CT-scan Images", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2011)*, Anchorage, Alaska, 10/2011.
60. J. Korecki, L. Hall, D. Goldgof, S. Eschrich, "Procedure for Stability Analysis of Gene Selection from Cross-Site Gene Expression Data", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2011)*, Anchorage, Alaska, 10/2011
61. S. Basu, L. Hall, D. Goldgof, Y. Gu, V. Kumar, R. Gatenby, R. Gillies, "Classifying lung tumors from CT-scan images based on 3D image features, *2011 World Molecular Imaging Congress*, San Diego, CA, 9/2011 (abstract only).
62. Y. Gu, V. Kumar, L. Hall, D. Goldgof, R. Korn, C. Bendtsen, R. Gatenby, R. Gillies, "Automated Delineation of Lung Tumors from CT Images: Method and Evaluation , *2011 World Molecular Imaging Congress*, San Diego, CA, 9/2011 (abstract only).
63. V. Kumar, Y. Gu, J. Kim, R. Korn, B. Zhaou, D. Goldgof, L.Hall, R. Gatenby, R. Gillies, "Radiomics of Lung Cancer: Test Retest Reproducibility of Quantitative CT Image Features , *2011 World Molecular Imaging Congress*, San Diego, CA, 9/2011 (abstract only).
64. M. Shreve, N. Jain, D. Goldgof, S. Sarkar, W. Kropatsch, C. Tzou, M. Frey, "Evaluation of Facial Reconstructive Surgery on Patients with Facial Palsy using Optical Strain", *IAPR 14th International Conference on Computer Analysis of Images and Patterns (CAIP)*, Seville, Spain, 8/2011. (Published in Springer Lecture Notes in Computer Science, 2011, Volume 6854/2011, 512-519.)
65. M. Shreve, S. Godavarthy, D. Goldgof, S. Sarkar "Macro- and Micro-Expression Spotting in Long Videos Using Spatio-temporal Strain", *IEEE International Conference on Automatic Face and Gesture Recognition (FG 2011)*, Santa Barbara, CA, 3/2011.
66. K. Kramer, D. Goldgof, L. Hall, A. Remsen, "Increased Classification Accuracy and Speedup Through Pair-wise Feature Selection for Support Vector Machines", *IEEE SSCI: Symposium on Computational Intelligence and Data Mining*, pp. 318-324, Paris, France, 4/2011.
67. D. Elozory, O. Bonam, K. Kramer, D. Goldgof, L. Hall, O. Mangual, P. Mouton, "Automatic Location of Microscopic Focal Planes for Computerized Stereology" *SPIE Medical Imaging 2011*, Orlando, FL, 2/2011.
68. O. Bonam, D. Elozory, K. Kramer, D. Goldgof, L. Hall, O. Mangual, P. Mouton, "Toward Automated Quantification of Biological Microstructures Using Unbiased Stereology" *SPIE Medical Imaging 2011*, Orlando, FL, 2/2011.

Conference - 2006 - 2010:

69. J.Canul-Reich, L. Hall, D. Goldgof, S. Eschrich, "Filtering for Improved Gene Selection on Microarray Data", *IEEE International Conference on Systems, Man and Cybernetics*, Istanbul, Turkey, 10/2010.
70. L. Hall, Y. Gu, D. Goldgof, "Evaluating Scalable Fuzzy Clustering", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2010)*, Istanbul, Turkey, 10/2010.
71. M. Shreve, V. Manohar, D. Goldgof, S. Sarkar, "Face Recognition under Camouflage and Adverse Illumination", *Fourth IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2010)*, Washington, DC, 9/2010.
72. V. Kumar, Y. Gu, S. Eschrich, E. Eikman, C. Berman, D. Goldgof, L. Hall, R. Gatenby, Robert Gillies, "Radiomics of Non Small Cell Lung Cancer: Association of Quantitative Image Features with histology and outcomes, *2010 World Molecular Imaging Congress*, Kyoto, Japan, 9/2010 (abstract only).
73. V. Manohar, M. Shreve, D. Goldgof, S. Sarkar, "Modeling Facial Skin Motion Properties in Video and its Application to Matching Faces Across Expressions", *International Conference on Pattern Recognition (ICPR)*, Istanbul, Turkey, 8/2010.
74. S. Godavarthy, J. Candamo, D. Goldgof, R. Kasturi, "Detecting Wires in Cluttered Urban Scenes Using a Gaussian Model", *International Conference on Pattern Recognition (ICPR)*, Istanbul, Turkey, 8/2010.

75. S. Fefilatyeu, D. Goldgof, C. Lembke, "Tracking Ships from Fast Moving Camera through Image Registration", *International Conference on Pattern Recognition (ICPR)*, Istanbul, Turkey, 8/2010.
76. L. Hall, D. Goldgof, "On Convergence properties of the Singlepass and Online Fuzzy C-Means Algorithm", *IEEE International Conference on Fuzzy Systems*, Barselona, Spain, 7/2010.
77. V. Korzhova, G. Sisoev, D. Goldgof, "Reconstructing experimental data from video records for film flow over a spinning disk", *Fifth European Conference on Computational Fluid Dynamics (ECCOMAS CFD 2010)*, Lisbon, Portugal, 6/2010.
78. M. Shreve, S. Godavarthy, V. Manohar, D. Goldgof, S. Sarkar, "Towards Macro- and Micro-Expression Spotting in Video Using Strain Patterns", *IEEE Workshop on Applications of Computer Vision (WACV'09)*, Showbird, UT, 12/2009.
79. W. Cheng, L. Hall, D. Goldgof, C. Hu, I. Soto, "Automatic Red Tide Detection from MODIS Satellite Images", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2009)*, San Antonio, TX, 10/2009.
80. V. Kumar, R. Gatenby, E. Eikman, C. Berman, D. Goldgof, L. Hall, Robert Gillies, "Radiomics of Lung Cancer: Quantitative Image Features as Imaging Biomarkers", *2009 World Molecular Imaging Congress*, Montreal, Canada, 9/2009 (abstract only).
81. V. Korzhova, D. Goldgof, G. Sisoev, "Optical Measurement of 3D Fluid Waves in Video", *9th Conference on Optical 3-D Measurement Techniques 2009*, Vienna, Austria 7/2009.
82. Y. Gu, L. Hall, D. Goldgof, "Ant Clustering using Ensembles of Partitions", *Eighth International Workshop on Multiple Classifier Systems (MCS 2009)*, Reykjavik, Iceland, 6/2009.
83. J. Candamo, D. Goldgof, R. Kasturi, "Using linear color profiles for road detection in UAV images", *SPIE Defense, Security and Sensing: Airborne Intelligence, Surveillance, Reconnaissance (ISR) Systems and Applications VI*, Orlando, FL, 4/2009.
84. S. Fefilatyeu, D. Goldgof, C. Lembke, "Autonomous Buoy Platform for Visual Maritime Surveillance: Design and Initial Deployment", *SPIE Defense, Security and Sensing: Ocean Sensing and Monitoring*, Orlando, FL, 4/2009.
85. M. Soria, S. Eschrich, D. Goldgof, "Automated Registration and Quantification of Biophotonic Mouse Images using a Whole Body Atlas", *SPIE Medical Imaging 2009*, Orlando, FL, 2/2009.
86. V. Manohar, M. Shreve, D. Goldgof, S. Sarkar, "Finite Element Modeling of Facial Deformation in Videos for Computing Strain Pattern", *International Conference on Pattern Recognition (ICPR)*, Tampa, FL, December 2008.
87. S. Fefilatyeu, D. Goldgof, "Detection and Tracking of Marine Vehicles in Video". *International Conference on Pattern Recognition (ICPR)*, Tampa, FL, December 2008.
88. R. Kasturi, J. Zhang, D. Goldgof, "A New Edge-Based Text Verification Approach for Video", *International Conference on Pattern Recognition (ICPR)*, Tampa, FL, December 2008.
89. R. Kasturi, N. Sulman, T. Sanoeki, D. Goldgof, "How Effective Is Human Video Surveillance Performance?", *International Conference on Pattern Recognition (ICPR)*, Tampa, FL, December 2008.
90. J. Candamo, D. Goldgof, "Wire Detection in Low-Altitude, Urban, and Low-Quality Video Frames", *International Conference on Pattern Recognition (ICPR)*, Tampa, FL, December 2008.
91. Juana Canul-Reich, Lawrence O. Hall, Dmitry, Goldgof, Steven A. Eschrich, "Feature Selection for Microarray Data by AUC Analysis", *IEEE International Conference on Systems, Man and Cybernetics (SMC 2008)*, Singapore, October 2008.
92. V. Kamath, D. Goldgof, R. Argilagos, L. Hazlehurst, S. Eschrich, "Towards a Framework for Analysis of Biophotonic Images of Mouse Models of Cancer", *International Conference of IEEE Engineering in Medicine and Biology Society (EMBC 2008)*, Vancouver, Canada, August 2008.
93. P. Hore, L. Hall, D. Goldgof, "Online Fuzzy C Means", *Conference of North American Fuzzy Information Processing Society (NAFIPS 2008)*, New York, NY, May 2008.
94. W. Cheng, C. Hu, I. Soto, F. Muller-Karger, L. Hall, D. Goldgof, "Detection of harmful algal blooms from space: a method using artificial intelligence and modern remote sensing", *Ocean Sciences Meeting*, Orlando, FL, 3/2008 (abstract).
95. Y. Qiu, X. Sun, V. Manohar, D. Goldgof, "Towards Registration of Temporal Mammograms by Finite Element Simulation of MR Breast Volumes", *Medical Imaging 2008*, San Diego, CA, February 2008.
96. X. Sun, D. Goldgof, W. Land, "Robust segmentation of breast region using kernel and spatial fuzzy C-means methods", *Medical Imaging 2008*, San Diego, CA, February 2008.
97. V. Manohar, P. Soundararajan, V. Korzhovay, M. Boonstra, D. Goldgof, R. Kasturi, R. Bowers, J. Garofolo, "A Baseline Algorithm for Face Detection and Tracking in Video", *SPIE Europe Symposium on Security and Defence: Optics And Photonics For Counter-Terrorism And Crime-Fighting*, Florence, Italy, September 2007.

98. S. Fefilatyeu, D. Goldgof, L. Langebrake, "Towards detection of marine vehicles on horizon from buoy camera", SPIE Europe Symposium on Security and Defence: Unmanned/Unattended Sensors and Sensor Networks IV, Florence, Italy, September 2007.
99. P. Hore, L. Hall, D. Goldgof, "A Fuzzy C Means Variant For Clustering Evolving Data Streams", IEEE International Conference on Systems, Man and Cybernetics (SMC 2007), Montreal, Canada, October 2007.
100. S. Fefilatyeu, T. Ivanovskiy, L. Hall, D. Goldgof, S. Pobi, C. Garrett, A. Pathak, H. Greenstien, "Clinical Deployment of a Medical Expert System to Increase Accruals for Clinical Trials: Challenges", IEEE International Conference on Systems, Man and Cybernetics (SMC 2007), Montreal, Canada, October 2007.
101. S. Canavan, M. Kozak, Y. Zhang, J. Sullins, M. Shreve, D. Goldgof "Face Recognition by Multi-Frame Fusion of Rotating Heads in Videos", *First IEEE International Conference on Biometrics: Theory, Applications and Systems (BTAS 2007)*, Washington, DC, 9/2010.
102. S. Fefilatyeu, V. Smarodzinava, L. Hall, D. Goldgof, "Horizon Detection Using Machine Learning Techniques", 5 th International Conference on Machine Learning and Applications, pp. 17-21, Leipzig, Germany, July 2007.
103. P. Hore, L. Hall, D. Goldgof, "Single Pass Fuzzy C Means", IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2007), London, England, July 2007.
104. P. Hore, L. Hall, D. Goldgof, "Creating Streaming Iterative Soft Clustering Algorithms", Conference of North American Fuzzy Information Processing Society (NAFIPS 2007), San Diego, June 2007.
105. L. Chen, D. Goldgof, L. Hall, S. Eschrich, "Noise-based Feature Perturbation as a Selection Method for Microarray Data", International Symposium on Bioinformatics Research and Applications, pp. 237-247, Atlanta, Georgia, May 2007.
106. V. Manohar, D. Goldgof, S. Sarkar. Y. Zhang, "Facial Strain Pattern as a Soft Forensic Evidence", IEEE Workshop on Applications of Computer Vision (WACV'07), Austin, TX, February 2007.
107. Y. Zhang, Y. Qiu, D. Goldgof, S. Sarkar, Lihua Li, "3D Finite Element Modeling of Nonrigid Breast Deformation for Feature Registration in X-ray and MR Images", IEEE Workshop on Applications of Computer Vision (WACV'07), Austin, TX, February 2007.
108. P. Soundararajan, M. Boonstra, V. Manohar, V. Korzhova, D. Goldgof, R. Kasturi, S. Prasad, H. Raju, R. Bowers, J. Garafolo, "Evaluation Framework for Video OCR" 5th Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), Madurai, India, December 2006.
109. D. Goldgof, G. Sisoiev, V. Korzhova, "Fluid Flow over a Spinning Disk Reactor", 59th Annual Meeting of the Division of Fluid Dynamics, (video no. 42), Bulletin of the American Physical Society, vol. 51, No. 9, pp. 11, Tampa, November 2006.
110. P. Hore, L. Hall, D. Goldgof, "A Cluster Ensemble Framework for Large Data sets", *IEEE International Conference on Systems, Man & Cybernetics*, Taipei, Taiwan, October 2006.
111. Y. Zhang, J. R. Sullins, D. B. Goldgof, and V. Manohar, "Computing Strain Elastograms of Skin Using an Optical Flow Based Method", *5th International Conference on the Ultrasonic Measurement and Imaging of Tissue Elasticity*, Snowbird, Utah, October, 2006.
112. Y. Zhang, R. W. Kramer, D. B. Goldgof, and V. Manohar, "Development of a Robust Algorithm for Imaging Complex Tissue Elasticity", *5th International Conference on the Ultrasonic Measurement and Imaging of Tissue Elasticity*, Snowbird, Utah, October, 2006.
113. D. Garcia, L. Hall, D. Goldgof, K. Kramer, "A Parallel Feature Selection Algorithm from Random Subsets", *Workshop on Parallel Data Mining (PDM06)*, pp. 64-75, Berlin, Germany, September 2006.
114. V. Korzhova, D. Goldgof, G. Sisoiev, "Image Processing of the Film Fluid Flow in a Spinning Disk Reactor", *8th All-Ukrainian International Conference on Signal/Image Processing and Pattern Recognition - "UkrObraz-2006"*, pp. 175-178, Kyiv, Ukraine, August 2006.
115. V. Korzhova, D. Goldgof, G. Sisoiev, "Detection of Spiral Waves in Video", *International Conference on Pattern Recognition (ICPR)*, pp. 396-399, Hong Kong, August 2006.
116. C. Bethel, L. Hall, D. Goldgof, "Mining for Implications in Medial Data", *International Conference on Pattern Recognition (ICPR)*, pp. 1212-1215, Hong Kong, August 2006.
117. V. Manohar, M. Boonstra, V. Korzhova, P. Soundararajan, M. Boonstra, D. Goldgof, R. Kasturi, S. Prasad, H. Raju, R. Bowers, J. Garafolo, "PETS vs. VACE Evaluation Programs: A Comparative Study", Ninth IEEE International Workshop on Performance Evaluation of Tracking and Surveillance (PETS), pp. 1-6, New York, NY, June 2006.
118. J. Candamo, R. Kasturi, D. Goldgof, S. Sarkar "Vision-based on-board collision avoidance system to aircraft navigation", SPIE Defense and Security Symposium: Intelligent Computing: Theory and Applications IV, SPIE Vol. 6229, Orlando, FL, April 2006.

119. V. Manohar, P. Soundararajan, M. Boonstra, H. Raju, D. Goldgof, R. Kasturi, "Performance evaluation of text detection and tracking in video", 7th IAPR Workshop on Document Analysis Systems, Nelson, New Zealand, February 2006.
120. V. Manohar, P. Soundararajan, H. Raju, D. Goldgof, R. Kasturi, J. Garofolo, "Performance Evaluation of Object Detection and Tracking in Video", 7th Asian Conference on Computer Vision (ACCV), Hyderabad, India, January 2006.

Conference - 2000-2005:

121. L. Hall, T. Luo, D. Goldgof, A. Remsen, "Bit Reduction Support Vector Machine", *IEEE International Conference on Data Mining*, Houston, Texas, pp. 733-736, November 2005.
122. Y. Gu, L. Hall, D. Goldgof, P. Kanade, F. Murtagh, "Sequence Tolerant Segmentation System of Brain MRI", *IEEE International Conference on Systems, Man & Cybernetics*, Hawaii, pp. 2936-2943, October 2005.
123. Y. Zhang, S. Kundu, D. Goldgof, S. Sarkar, L. Tsap, "Elastic Face, An Anatomy-Based Biometrics Beyond Visible Cue", *International Conference on Pattern Recognition (ICPR)*, Cambridge, UK, August 2004.
124. T. Lou, K. Kramer, D. Goldgof, L. Hall, S. Sampson, A. Remsen, T. Hopkins, "Active Learning to Recognize Multiple Types of Plankton", *International Conference on Pattern Recognition (ICPR)*, Cambridge, UK, August 2004.
125. Y. Zhang, D. Goldgof, S. Sarkar, "Significance of Elastic Properties in Physics-Based Nonrigid Motion Modeling, A Numerical Sensitivity Analysis", *IEEE Workshop on Articulated and Nonrigid Motion (ANM2004)*, Washington, DC, June 2004.
126. B. Goswami, E. Fink, L. Hall, D. Goldgof, "Using probabilistic methods to optimize cost and data entry in accrual of patients to clinical trials", *IEEE Symposium on Computer-Based Medical Systems*, Bethesda, MD, June 2004.
127. Y. Qiu, D. Goldgof, L. Li, S. Sarkar, Y. Zhang, S. Anton, "Correspondence Recovery in 2-view Mammography", *2004 IEEE International Symposium on Biomedical Imaging*, Arlington, VA, April 2004.
128. Y. Qiu, L. Li, D. Goldgof, R. Clark, "Three-dimensional deformation model for lesion correspondence in breast imaging", *Medical Imaging 2004*, San Diego, CA, February 2004.
129. T. Lou, K. Kramer, D. Goldgof, L. Hall, S. Sampson, A. Remsen, T. Hopkins, "Learning to recognize plankton", *IEEE International Conference on Systems, Man & Cybernetics*, Washington, D.C., pp. 888-893, October 2003.
130. L. Nallamshetty, S. Eschrich, D. Cuthbertson, J. Malloy, D. Goldgof, A. Alexander, M. Trucco, J. Ilonen, H.K. Akerblom, J.P. Krischer "An Expert System For Evaluating Risk In Type-1 Diabetes", *IEEE International Conference on Systems, Man & Cybernetics*, Washington, D.C., pp. 1660-1665, October 2003.
131. E. Fink, L. Hall, D. Goldgof, B. Goswami, M. Boonstra, J. Krischer, "Experiments on the Automated Selection of Patients for Clinical Trials", *IEEE International Conference on Systems, Man & Cybernetics*, Washington, D.C., pp. 4541-4545, October 2003.
132. M. Shin, L. Tsap, D. Goldgof, "Towards Perceptual Interface for Visualization Navigation of Large Data Sets", *IEEE Workshop on Computer Vision and Pattern Recognition for Human Computer Interaction (CVPRHCI)*, Madison, WI, June 2003.
133. Yong Zhang, Dmitry Goldgof and Sudeep Sarkar, "Towards Physically-Sound Registration Using Object-Specific Properties for Regularization" *Second International Workshop on Biomedical Image Registration (WBIR'03)*, Philadelphia, PA, June 2003. Published as Lecture Notes in Computer Science, "Biomedical Image Registration", J. C. Gee, A. Maintz, M. W. Vannier, eds., pp. 358-366, Springer 2003.
134. Yong Chu, Lihua Li, Dmitry Goldgof, Yan Qiu, Robert A. Clark, "Classification of Masses on Mammograms using Support Vector Machines", *Medical Imaging 2003*, San Diego, CA, February 2003.
135. H. Zhang, F. Muller-Karger, L. Hall, D. Goldgof, "Classification of SeaWiFS Imagery to Identify Red Tides in Tampa Bay - Charlotte Harbor Region", *Proceedings of Xth International Conference on Harmful Algae*, St. Pete Beach, Florida, October 2002 (poster).
136. P. Kokku, L. Hall, D. Goldgof, E. Fink, J. Krischer, "A Cost-Conscious Agent for Clinical Trial Assignment", *2002 IEEE International Conference on Systems, Man and Cybernetics*, Hammamet, Tunisia, October 2002.
137. S. Nikiforou, E. Fink, L. Hall, D. Goldgof, J. Krischer, "Knowledge Acquisition for Clinical-Trial Selection", *2002 IEEE International Conference on Systems, Man and Cybernetics*, Hammamet, Tunisia, pp. 60-65, October 2002.

138. Y. Zhang, M. Shin, D. Goldgof, S. Sarkar, "Recovering Elastic Property of Soft Tissues Using 2D Image Sequences With Limited Range Data", *International Conference on Pattern Recognition (ICPR)*, Vol. I, pp. 755-758, Quebec, Canada, August 2002.
139. Y. Zhang, L. Tsap, D. Goldgof, S. Sarkar, "Tracking Objects Using Recovered Physical Motion Parameters", *International Conference on Pattern Recognition (ICPR)*, Vol. II, pp. 10-13, Quebec, Canada, August 2002.
140. Y. Zhang, L. Hall, D. Goldgof, S. Sarkar, "A Constrained Genetic Approach for Reconstructing Young's Modulus of Elastic Objects from Boundary Displacement Measurements", *World Congress on Computational Intelligence, WCCI 2002*, pp. 1003-1008, Honolulu, Hawaii, May 2002.
141. S. Eschrich, J. Ke, L. Hall, D. Goldgof, "Fast Fuzzy Clustering of Infrared Images", *20th NAFIPS International Conference*, pp. 1145-1150, Vancouver, Canada, July 2001.
142. Y. Zhang, P. Powers, S. Sarkar, D. Goldgof, Y. Bannon, W. Cruse, "Comprehensive Evaluation of Burn Scars and its Impact on Quality of Life", *Society of Cosmetic Chemists Annual Scientific Seminar*, New Orleans, Louisiana, May 2001 (poster).
143. L. Zhou, S. Sarkar, D. Goldgof, D. Hilbelink, K. Muffly, "Computer Aided Image Analysis on Human Skin Histology Images", *Experimental Biology*, C225A, Orlando, Florida, April 2001 (abstract).

Conference - 1996-2000:

144. M. Shin, D. Goldgof, C. Kim, J. Zhong, D. Guo, "Customizable MPEG-4 Face Player using Real-time Image Sequence", *Workshop on the Application of Computer Vision (WACV2000)* Palm Springs, California, December 2000.
145. W. Yao, L. Hall, D. Goldgof, F. Muller-Karger, "Finding Green River in Sea WIFS Satellite Images", *International Conference on Pattern Recognition (ICPR)*, v2, pp. 307-310, Barcelona, Spain, September 2000.
146. Y. Zhang, D. Goldgof, S. Sarkar, L. Tsap, "Model-Based Nonrigid Motion Analysis Using Natural Feature-Adaptive Mesh", *International Conference on Pattern Recognition (ICPR)*, v3, pp. 839-843, Barcelona, Spain, September 2000.
147. M. Shin, R. Balasubramanian, D. Goldgof, C. Kim, "Framework of Intergrating 2D Points and Curves for Tracking of 3D Nonrigid Motion and Structure", *International Conference on Pattern Recognition (ICPR)*, v3, pp. 831-834, Barcelona, Spain, September 2000.
148. M. Zhang, L. Hall, D. Goldgof, "Knowledge Extraction and Refinement from Multi-feature Images through (Re-)Clustering", *ICIG'2000*, pp. 459-462, Tianjin, China, August 2000.
149. M. Powell, S. Sarkar, D. Goldgof, "Calibration of Light Sources", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. II-263-269, Hilton Head, South Carolina, June 2000.
150. L. Tsap, D. Goldgof, S. Sarkar, "Multiscale Combination of Physically-based Registration and Deformation Modeling", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. II-422-429, Hilton Head, South Carolina, June 2000.
151. L. Zhou, C. Kambhamettu, D. Goldgof, "Fluid Structure and Motion Analysis from Multi-spectrum 2D Cloud Image Sequences", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. II-744-751, Hilton Head, South Carolina, June 2000.
152. M. Shin, R. Balasubramanian, D. Goldgof, "Estimation of the MPEG-4 FAPs Using Point and Curve Features", *IEEE Workshop on Human Modeling, Analysis and Synthesis*, Hilton Head, South Carolina, June 2000.
153. L. Zhou, C. Kambhamettu, D. Goldgof, "Extracting Nonrigid Motion and 3D Structure of Hurricanes from Satellite Image Sequences without Correspondences", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 280-285, Fort Collins, Colorado, June 1999.
154. M. Shin, D. Goldgof, K. Bowyer, "Comparison of Edge Detectors using an Object Recognition Task", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 360-365, Fort Collins, Colorado, June 1999.
155. M. Powell, S. Sarkar, D. Goldgof, "Color Correction using Explicit Illumination Models, Color and Registered Range", *IEEE Workshop on Photometric Modeling for Computer Vision and Graphics*, pp. 64-71, Fort Collins, Colorado, June 1999.
156. S. Sarkar, D. Goldgof, P. Powers, L. Tsap, M. Powell, "Objective Evaluation of Burn Scars using Computer Vision Techniques (abstract)", American Burn Association, Orlando, FL, March 1999. (Published as an issue of the Journal of the Burn Care and Rehabilitation, vol. 20, no. 1, part 2, Jan/Feb 1999.)
157. L. Zhou, C. Kambhamettu, D. Goldgof, "Structure and Nonrigid Motion Analysis of Satellite Cloud Images", *ICVGIP'98*, pp. 285-291, New Delhi, India, December 1998.

158. M. Powell, S. Sarkar, D. B. Goldgof, P. Powers, and W. C. Cruse, "Progress in Color-Texture Assessment of Burn Scars (abstract)," *11th Annual Regional Burn Seminar*, Southern Medical Association, Gainesville, FL, December 1998.
159. K. Chen, D. Goldgof, C. Kambhamettu, "Extraction of MPEG-4 FAP Parameters from 3D Face Data Sequences", *Workshop on Very Low Bitrate Video Coding*, pp. 77-80, Urbana, IL, October 1998.
160. L. Tsap, D. Goldgof, S. Sarkar, "A model-based point correspondence and nonrigid motion recovery from sequences of range images", *IEEE International Conference on Image Processing*, Chicago, IL, October 1998.
161. R. Balasubramanian, D. Goldgof, C. Kambhamettu, "Tracking of Nonrigid motion and 3D structure from 2D image sequences without correspondences", *IEEE International Conference on Image Processing*, Chicago, IL, October 1998.
162. L. Tsap, D. Goldgof, S. Sarkar, "Experimental Results of a Vision-Based Burn Scar Assessment Technique", *IEEE Workshop on Biomedical Image Analysis*, pp. 193-201, Santa Barbara, CA, June 1998.
163. M. Shin, D. Goldgof, K. Bowyer, "Evaluation of edge detectors using a Structure from Motion Task", *IEEE Wrkshp on Empirical Evaluation in Comp. Vision*, pp. 235-254, Santa Barbara, CA, June 1998.
164. M. Shin, D. Goldgof, K. Bowyer, "An Objective Comparison Methodology of Edge Detection Algorithms for Structure from Motion Task", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 190-195, Santa Barbara, CA, June 1998.
165. L. Tsap, D. Goldgof, S. Sarkar, "Nonrigid Motion Analysis Based on Dynamic Refinement of Finite Element Models", *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 728-743, Santa Barbara, CA, June 1998.
166. S. Bhanja, L. Fletcher-Heath, L. Hall, D. Goldgof, J. Krischer, "A qualitative expert system for clinical trial assignment", *The 11th Intern. FLAIRS Conference*, pp. 84-88, Sanibel Island, FL, May 1998.
167. L. Fletcher-Heath, L. Hall, D. Goldgof, "Segmenting non-enhancing brain tumors from Magnetic Resonance Images", *Medical Imaging 1998*, San Diego, CA, February 1998.
168. M. Clark, L. Hall, D. Goldgof, R. Velthuisen, M. Silberger, "Automatic Brain Tumor Segmentation", *Medical Imaging 1998*, San Diego, CA, February 1998.
169. S. Sarkar, L. Tsap, D. Goldgof, P. Powers, "Progress in Scar Assessment (abstract)", *10th Annual Regional Burn Seminar*, Chapel Hill, NC, December 1997.
170. M. Zhang, L. O. Hall, D. B. Goldgof and F. E. Muller-Karger, "Fuzzy Analysis of Satellite Images to Find Phytoplankton Blooms", *IEEE International Conference on Systems Man and Cybernetics*, pp. 1430-1435, Orlando, Florida, October 1997.
171. L. Tsap, D. Goldgof, S. Sarkar, "Human Skin and Hand Motion Analysis from Range Image Sequences using Nonlinear FEM", *IEEE Nonrigid and Articulated Motion Workshop*, pp. 80-88, Puerto Rico, June 1997.
172. S. Sarkar, D. Goldgof, "Image computation in the undergraduate data structures course", *IEEE Workshop on Undergraduate Education & Image Computation*, Puerto Rico, June 1997.
173. S. Kumar, C. Kambhamettu, M. Sallam, D. Goldgof and K. Bowyer, "Model Based Estimation of Point Correspondences in Nonrigid Motion", *International Conference on Image Processing (ICIP'96)*, Vol. I, 359-362, Lausanne, Switzerland, September 1996.
174. M. Zhang, L. O. Hall and D. B. Goldgof, "Knowledge-Based Classification of CZCS Images and Monitoring of Red Tides off the West Florida Shelf", *The 13th International Conference on Pattern Recognition (ICPR)*, vol. B, pp. 452-456, Viena, Austria, August 1996.
175. S. Kumar and D. Goldgof, "Recovery of Global Nonrigid Motion - A Model Based Approach without Point Correspondences", *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 594-599, San Francisco, CA, June 1996.
176. S. Kumar, T. W. Cheng, J. Adair, A. Sellhorn, D. Goldgof, S. Tadikonda, D. Freeman, "Towards Fully Automated Analysis of Tagged and Nontagged MR Cardiac Images", *Medical Imaging 1996: Physiology and Function from Multidimensional Images*, Newport Beach, CA, February 1996.

Conference - 1991-1995:

177. X. Y. Jiang, A. Hoover, G. Jean-Baptiste, D. B. Goldgof, K. W. Bowyer and H. Bunke, "A Methodology for Evaluating Edge Detection Techniques for Range Images", *Second Asian Conference on Computer Vision (ACCV-95)*, pp. II-415-419, Singapore, December 1995.
178. S. Kumar, M. Sallam, D. B. Goldgof and K. W. Bowyer, "Establishing Point Correspondences in Unstructured Nonrigid Motion", *IEEE International Symposium on Computer Vision*, pp. 289-294, Coral Gables, FL, November 1995.

179. A. Hoover, G. Jean-Baptiste, X. Jiang, P. J. Flynn, H. Bunke, D. B. Goldgof and K. W. Bowyer, "Range Image Segmentation: The User's Dilemma", *IEEE International Symposium on Computer Vision*, pp. 323-328, Coral Gables, FL, November 1995.
180. M. Clark, L. Hall, D. Goldgof, "Using Fuzzy Information in Knowledge Guided Segmentation of Brain Tumors", *IJCAI workshop on Fuzzy Logic in AI*, pp. 211-220, Montreal, August, 1995.
181. M. Clark, D. Goldgof, L. Hall, "Knowledge Based Clustering for Semantic Analysis of MR Brain Images", *NSF/ARPA Visual Information Management Workshop*, Cambridge, MA, June 1995 (poster).
182. K. Palaniappan, C. Kambhamettu, F. Hasler and D. B. Goldgof, "Structure and Deformation Analysis of Stereoscopic Satellite Image for Cloud Tracking", *Fifth International Conference on Computer Vision (ICCV)*, pp. 659-665, Cambridge, MA, June 1995.
183. S. Kumar, D. Goldgof, "Model Based Part Segmentation of Range Data - Hyperquadrics, Dividing Planes", *IEEE Workshop on Physics-Based Modeling in CV*, pp. 17-23, Cambridge, MA, June 1995.
184. W.-C. Huang, D. B. Goldgof and L. Tsap, "Nonlinear FEM for Nonrigid Motion Analysis", *IEEE Workshop on Physics-Based Modeling in Comp. Vision*, pp. 85-91, Cambridge, MA, June 1995.
185. T. W. Cheng, D. B. Goldgof and L. O. Hall, "Fast Clustering with Application to Fuzzy Rule Generation", *FUZZ-IEEE/IFES*, pp. 2289-2295, Yokohama, Japan, March 1995.
186. A. Hoover, G. Jean-Baptiste, D. B. Goldgof and K. W. Bowyer, "A Methodology for Evaluating Range Image Segmentation Techniques", *IEEE Workshop on Applications of Computer Vision*, pp. 264-271, Sarasota, FL, December 1994.
187. S. Kumar and D. B. Goldgof, "A Robust Technique for the Estimation of Deformable Hyperquadric Parameters from Images", *The 12th International Conference on Pattern Recognition*, v. I, pp 74-80, Jerusalem, Israel, October 1994.
188. M. C. Clark, L. O. Hall, C. Li and D. B. Goldgof, "Knowledge Based (Re-)Clustering", *The 12th International Conference on Pattern Recognition*, v. II, pp. 245-250, Jerusalem, Israel, October 1994.
189. C. Kambhamettu, D. B. Goldgof and M. He, "Determination of Motion Parameters and Estimation of Point Correspondences in Small Nonrigid Deformations", *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 943-946, Seattle, WA, June 1994.
190. D. Eggert, D. B. Goldgof and K. W. Bowyer, "Reconstructing CAD Models of Articulated Objects", *IEEE Workshop on CAD-based Vision*, pp. 98-107, Champion, PA, February 1994.
191. A. Hoover, D. B. Goldgof and K. W. Bowyer, "Building a B-rep from a Segmented Range Image", *IEEE Workshop on CAD-based Vision*, pp. 74-81, Champion, PA, February 1994.
192. H.-K. Tu, D. B. Goldgof, and E. Backer, "Utilizing Fuzzy c-Shells for Automatic Approximate LV Location for Initialization of Myocardial Structure and Function Analysis Algorithms", *Medical Imaging 1994: Physiology and Function from Multidimensional Images*, SPIE vol 2168, pp 218-224. Newport Beach, CA, February 1994.
193. W-C. Huang and D. B. Goldgof, "Point Correspondence Recovery in Nonrigid Motion Using Non-Linear Finite Element Modeling", *ACCV-93*, Osaka, Japan, pp. 256-259, November 1993.
194. L. Stark, A. Hoover, D. B. Goldgof, K. W. Bowyer, "Function-Based Object Recognition from Incomplete Knowledge of Object Shape", *AAAI workshop on "Reasoning About Function"*, pp. 141-148, Washington D.C., July 1993.
195. W-C. Huang and D. B. Goldgof, "Nonrigid Motion Analysis Using Non-Linear Finite Element Modeling", *SPIE Symposium on Optical Instrumentation and Applied Science, Conference on Geometric Methods in Computer Vision II*, SPIE-2031, San Diego, California, pp. 404-414, July 1993.
196. C. Kambhamettu, M. He and D. B. Goldgof, "On a Study of Invariant Features in Nonrigid Transformations", *IEEE Workshop on Qualitative Vision*, pp. 118-127, New York, June 1993.
197. L. Stark, A. Hoover, D. Goldgof, K. Bowyer, "Function-Based Object Recognition from Incomplete Knowledge of Object Shape", *IEEE Workshop on Qualitative Vision*, pp.11-22, NY, June 1993.
198. S. Kumar, N. Ranganathan and D. B. Goldgof, "Parallel Algorithms for Circle Detection on a Mesh-Connected Array of Processors", *The 8th Scandinavian Conference on Image Analysis*, pp. 143-150, Tromsø, Norway, May 1993.
199. S. Han, D. Goldgof, K. Bowyer, "Using Hyperquadrics for Shape Recovery from Range Data", *Fourth International Conference on Computer Vision (ICCV)*, pp. 492-496, Berlin, Germany, May 1993.
200. C. Li, L. O. Hall and D. B. Goldgof, "Knowledge-Based Classification and Tissue Labeling of MR Images of Human Brain", *Conference on Biomedical Image Processing IV and Biomedical Visualization*, SPIE-1905, pp. 554-565, San Jose, California, February 1993.
201. H.-K. Tu and D. B. Goldgof, "Left Ventricular Boundary Detection from Spatio-Temporal Volumetric CT Images", *Conference on Biomedical Image Processing and Biomedical Visualization*, SPIE-1905, pp. 41-50, San Jose, California, February 1993.

202. S. Kumar and D. B. Goldgof, "Automatic Tracking of SPAMM grid in MR Images and Estimation of Deformation Parameters", *Conference on Biomedical Image Processing IV and Biomedical Visualization*, SPIE-1905, pp. 194-205, San Jose, California, February 1993.
203. A. Hoover, D. B. Goldgof and K. W. Bowyer, "Extracting known and inferred shape information from a single range image", *SPIE 1828: Sensor Fusion V*, Boston, MA, pp. 2-13, November 1992.
204. S. Kumar and D. B. Goldgof, "Towards automatic tracking of SPAMM grid in MRI images", *IEEE Nuclear Science Symposium, Medical Imaging Conference*, Orlando, FL, pp. 1319-1321, October 1992.
205. C. Li, D. B. Goldgof and L. O. Hall, "Towards Automatic Segmentation and Tissue Labeling of MRI Brain Images", *IAPR International Workshop on Structural and Syntactic Pattern Recognition*, pp. 520-529, Bern, Switzerland, August 1992.
206. C. Kambhamettu and D. B. Goldgof, "Point Correspondence Recovery in Nonrigid Motion", *IEEE Conference on Computer Vision and Pattern Recognition*, pp. 222-227, Champaign, IL, June 1992.
207. W-C. Huang and D. B. Goldgof, "Adaptive Physically-Based Models for Nonrigid Motion Analysis", *IEEE Conf. on Computer Vision and Pattern Recognition*, pp. 833-835, Champaign, IL, June 1992.
208. D. W. Eggert, K. W. Bowyer, C. R. Dyer, H. I. Christensen, D. B. Goldgof, "The Scale Space Aspect Graph", *IEEE Conf. on Comp. Vision and Pattern Recogn.*, pp.335-340, Champaign, IL, June 1992.
209. W-C. Huang and D. B. Goldgof, "Adaptive-size Meshes for Sampling and Surface Reconstruction", *Appl. of Artificial Intelligence X: Machine Vision and Robotics*, Orlando, FL, pp.760-770, April 1992.
210. Hsiao-Kun Tu and D. B. Goldgof, "Spatio-Temporal Edge Detection for 3D Temporal Cardiac Image Analysis", *Florida AI Research Symposium*, Fort Lauderdale, Florida, pp. 243-246, April 1992.
211. B. Bruno, N. Bennett, K. Bowyer, D. Goldgof, L. Stark, "Modeling of Articulated Objects for Machine Perception", *Fl. AI Research Symposium*, Fort Lauderdale, FL, pp. 247-251, April 1992.
212. C. Kambhamettu and D. B. Goldgof, "Left Ventricle Wall Motion Tracking using Curvature Properties", *SPIE/SPSE Symposium on Electronic Imaging, Conference on Biomedical Image Processing III and 3D Microscopy*, vol. SPIE 1660, pp. 311-322, San Jose, California, February 1992.
213. W-C. Huang and D. B. Goldgof, "Left Ventricle Motion Modeling and Analysis by Adaptive-size Physically-based Models", *Biomedical Image Processing III and 3D Microscopy*, vol. SPIE 1660, pp. 299-310, San Jose, California, February 1992
214. S. Mishra, D. Goldgof, "Motion Analysis and Modeling of Epicardial Surfaces from Point and Line Correspondences", *IEEE Workshop on Visual Motion*, pp. 300-305, Princeton, NJ, October 1991.
215. C. Kambhamettu and D. B. Goldgof, "Towards Finding Point Correspondences in Nonrigid Motion", *The 7th Scandinavian Conference on Image Analysis*, pp. 652-658, Aalborg, Denmark, August 1991.
216. B. Kaiser, K. Bowyer, D. B. Goldgof, "On Exploring the Definition of a Range Image Aspect Graph", *7th Scandinavian Conference on Image Analysis*, pp. 1126-1133, Aalborg, Denmark, August 1991.
217. S. K. Mishra, D. B. Goldgof, T. S. Huang, "Non-Rigid Motion Analysis and Epicardial Deformation Estimation from Angiography Data", *IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 331-336, Maui, Hawaii, June 1991.
218. B. Wilkins, D. B. Goldgof, K. Bowyer, "Towards Computing the Aspect Graph of Deformable Generalized Cylinders", *Appl. of Artif. Intelligence IX*, SPIE 1468, pp.662-673, Orlando, FL, April 1991.
219. D. B. Goldgof and S. K. Mishra, "Extracting Local Stretching from Left Ventricle Angiography Data", *SPIE/SPSE Symposium on Electronic Imaging, Conference on Biomedical Image Processing II*, vol. SPIE 1450, pp. 218-230, San Jose, California, February 1991.
220. D. B. Goldgof and C. Kambhamettu, "Application of the Nonrigid Shape Matching Algorithms to Volumetric Cardiac Images", *SPIE/SPSE Symposium on Electronic Imaging, Conference on Biomedical Image Processing II*, vol. SPIE 1450, pp. 264-276, San Jose, California, February 1991.

Conference - 1988-1990:

221. D. B. Goldgof , H. Lee , T. S. Huang, "Motion Estimation Without Correspondences and Object Tracking over Long Time Sequences", vol. SPIE 1383, pp. 109-121, Boston, MA, November 1990.
222. E. M. Wokabi, D. B. Goldgof, K. Bowyer, "Surface Modeling for Nonrigid Motion Analysis", *1990 Florida AI Research Symposium (FLAIRS)*, pp. 10-12, Cocoa Beach, Florida, April 1990.
223. S. K. Mishra, D. B. Goldgof, "Estimating Motion Parameters in Linear Conformal Motion", *1990 Florida AI Research Symposium (FLAIRS)*, pp. 80-84, Cocoa Beach, Florida, April 1990.
224. C. Kambhamettu, D. Goldgof, A. Tokuta, "Towards Representation of Facial Expressions for Recognition and Display", *Fl. AI Research Symposium*, pp. 85-89, Cocoa Beach, FL, April 1990.
225. D. B. Goldgof , H. Lee , T. S. Huang, "Parameter Estimation of the Heart Motion from Angiography Data", *SPIE/SPSE Symposium on Electronic Imaging, Conference on Biomedical Image Processing*, vol. SPIE 1245-15, pp. 171-181, Santa Clara, California, February 1990.

226. D. B. Goldgof, "Motion Estimation from Points without Correspondences from Scaled Orthographic Projections", *SPIE/SPSE Symposium on Electronic Imaging, Conference on Sensing and Reconstruction of 3D Objects and Scenes*, vol. SPIE 1260-09, pp. 70-77, Santa Clara, California, February 1990.
227. D. B. Goldgof, H. Lee, T.S. Huang, "Motion Estimation from Points without Correspondences from Orthographic Projections", *IEEE Workshop on Visual Motion*, pp. 352-358, Irvine, CA, March 1989.
228. D. B. Goldgof, T. S. Huang, H. Lee, "Using Gaussian and Mean Curvatures for Terrain Characterization", *Proceedings of the Third Topical Meeting on Robotics and Remote Systems*, section 4-5, pp. 1-8, Charleston, South Carolina, March 1989.
229. D. B. Goldgof, H. Lee, T.S. Huang, "Using 3-D Points and Lines without Correspondences for Matching and Motion Estimation", *Proceedings of the Third Topical Meeting on Robotics and Remote Systems*, section 6-3, pp. 1-8, Charleston, South Carolina, March 1989.
230. H. Lee, D. B. Goldgof, "Motion Analysis from Three-Dimensional Profiles and Applications", *22nd Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, October 1988.
231. D. B. Goldgof, T. S. Huang, H. Lee, "Feature Extraction and Terrain Matching", *IEEE Conference on Computer Vision and Pattern Recognition*, pp. 375-380, Ann Arbor, Michigan, June 1988.
232. D. B. Goldgof, H. Lee, T.S. Huang, "Motion Analysis of Nonrigid Surfaces", *IEEE Conference on Computer Vision and Pattern Recognition*, pp. 899-904, Ann Arbor, Michigan, June 1988.