

Selected list of publications

Selected refereed journal publications:

1. "Representation, Analysis and Recognition of 3D Humans," (S. Beretti, M. Daoudi, P. Turaga, and A. Basu), ACM Transactions on Multimedia, accepted, Jan 2017.
2. "Enhancement of Low Visibility Aerial Images Using Histogram Truncation and an Explicit Retinex Representation for Balancing Contrast and Color Consistency," (C. Liu, I. Cheng, Y. Zhang and A. Basu), Elsevier ISPRS Journal of Photogrammetry and Remote Sensing, pages 1-26, accepted, Jan. 2017 (IF: 4.18).
3. "Smart Sensor-Based Motion Detection System for Hand Movement Training in Open Surgery," (X. Sun, I. Cheng, S. Bryns, B. Zheng and A. Basu), Journal of Medical Systems, pages 1-20, In press, Dec 2016.
4. "Subjective and objective visual quality assessment of textured 3D meshes," (J. Guo, V. Vidal, I. Cheng, A. Basu, A. Baskurt and G. Lavoue), ACM Transactions on Applied Perception, pages 1-19, In press, September 2016.
5. "A color intensity invariant low-level feature optimization framework for image quality assessment," (N. Kottayil, I. Cheng, F. Dufaux and A. Basu), Signal, Image and Video Processing, Publisher Springer, pages 1-8, published online Mar 2016.
6. "Adaptive Resolution Optimization and Tracklet Reliability Assessment for Efficient Multi-Object Tracking," (R. Yu, I. Cheng, B. Zhu, S. Bedmutha, and A. Basu), IEEE Transactions on Circuits and Systems for Video Technology, pages 1-12, In press, Aug. 2016.
7. "A Multi-Sensor Technique for Gesture Recognition through Intelligent Skeletal Pose Analysis," (N. Rossol, I. Cheng and A. Basu), IEEE Transactions on Human Machine Systems, pages 350-359, Vol. 43, Issue 3, June 2016.
8. "Graph Matching Based on Stochastic Perturbation," (C. Leng, W. Xu, I. Cheng and A. Basu), IEEE Transactions on Image Processing, Vol 24, Issue 12, 4862 - 4875, Dec 2015.
9. "Perceptually Motivated LSPiHT for Motion Capture Data Compression," (I. Cheng, A. Firouzmanesh and A. Basu), Computer and Graphics, (also in Shape Modeling International Conference), Vol. 51, 1-7, Oct 2015.
10. "Stochastic Process for White Matter Injury Detection in Preterm Neonates," (I. Cheng, S.P. Miller, et al., and A. Basu), Neuroimage: Clinical, 622-630, Feb 2015.
11. "A fully Lagrangian Advection Scheme," J. Bowman, M. Ali Yasseai, A. Basu, Journal of Scientific Computing, Vol. 64, Issue 1, 151-177, July 2015.

12. "Super-resolution fusion of complementary panoramic images based on cross selection kernel regression interpolation," (Lidong Chen, A. Basu, M. Zhang, W. Wang and Y. Liu), *Applied Optics*, vol. 53, issue 9, 1918-1928, 2014. (Also in *Virtual Journal for Biomedical Optics (VJBO)*, 2014, IF = 3.16.)
13. "A Two-Point Spatial Mapping Method for Hybrid Vision Systems," (S. Tan, A. Basu and M. Zhang), *Journal of Modern Optics*, Vol 61, Issue 11, 910-922, June 2014.
14. "Further Investigation on Adaptive Search", (M. Pi, J. Ma, A. Basu and M. Mandal), *IET Journal of Engineering*, 10 pages, May 2014.
15. "QoE based Multi-exposure fusion in Hierarchical Multivariate Gaussian CRF," (R. Shen, I. Cheng and A. Basu), *IEEE Trans. on Image Processing*, 2469-2478, June 2013.
16. "Defocus deblurring for catadioptric omnidirectional imaging based on spatially invariant point spread function," (Y. Li , Y. Liu , W. Wang , J. Lou , A. Basu and M. Zhang), *Journal of Modern Optics*, 458-466, vol. 60, issue 6, April, 2013.
17. "Cross-Scale Coefficient Selection for Volumetric Medical Image Fusion," (R. Shen, I. Cheng and A. Basu), *IEEE Trans. on Biomedical Engineering*, 1069-79, vol. 60, no. 4, April 2013.
18. "Improved Robust Kernel Subspace for Object-Based Registration and Change Detection," (Z. Zhang, Z. Tian, M. Ding, and A. Basu), *IEEE Geoscience and Remote Sensing Letters*, 791-795, vol. 10, issue 4, July 2013.
19. "Perceptually Coded Transmission of Arbitrary 3D Objects over Burst Packet Loss Channels and a Generic JND Formulation," (I. Cheng, L. Ying and A. Basu), *IEEE Journal on Selected Areas of Communication (JSAC)*, 1184-1192, August 2012.
20. "An Edge-Region Force Guided Active Shape Approach for Automatic Lung Field Detection in Chest Radiographs," (T. Xu, R. Long, I. Cheng, M. Mandal and A. Basu), *Computerized Medical Imaging and Graphics*, 452-463, vol. 36, issue 6, Sep 2012.
21. "Efficient Omni-image Unwarping using Geometric Symmetry," (Z. Xiong, I. Cheng, A. Basu, W. Wang, W. Xu and M. Zhang), *Machine Vision and Applications*, 725-737, July 2012.
22. "Depth Space Partitioning for Omni-Stereo Object Tracking," (Z. Xiong, I. Cheng, W. Wang, A. Basu and M. Zhang), *IET Computer Vision*, 153-163, March 2012.
23. "Optimal Pixel Aspect Ratio for Enhanced 3D TV Visualization," (H. Azari, I. Cheng and A. Basu), *Computer Vision, Graphics and Image Processing*, 38-53, Jan 2012.

24. "Choice of Low Resolution Sample Sets for Efficient Super-resolution Signal Reconstruction," (M. Singh, C. Lu, A. Basu and M.K. Mandal), *Journal of Visual Communications and Image Representation*, 194-207, Jan 2012.
25. "Generalized Random Walks for Fusion of Multi-Exposure Images," (R. Shen, I. Cheng, J. Shi and A. Basu), *IEEE Trans. on Image Processing*, 3634-3646, Dec. 2011.
26. "Efficient Video Sequences Alignment Using Unbiased Bidirectional Dynamic Time Warping," (C. Lu, M. Singh, I. Cheng, A. Basu and M.K. Mandal), *Journal of Visual Communications and Image Representation*, 606-614, Oct. 2011.
27. "Perceptually Guided Fast Compression of 3D Motion Capture Data," (A. Firouzmanesh, I. Cheng and A. Basu), *IEEE Transactions on Multimedia*, 829-834, August 2011.
28. "A Real-time 3D Visualization Framework for Multimedia Data Management, Simulation, and Prediction in Geospatial-temporal Biomedical Disease Surveillance Networks," (N. Rossol, I. Cheng, J. Berozowski, I. Jamal and A. Basu), *International Journal of Multimedia Data Engineering and Management*, 18 pages, vol. 2, issue 2, 2011.
29. "A 2-point Algorithm for 3D Reconstruction of Horizontal Lines from a Single Omnidirectional Image," (W. Chen, I. Cheng, Z. Xiong, A. Basu and M. Zhang), *Pattern Recognition Letters*, 524-531, Feb 2011.
30. "A hybrid knowledge-guided detection technique for screening of infectious pulmonary tuberculosis from chest radiographs," (R. Shen, I. Cheng and A. Basu), *IEEE Trans. on Biomedical Engineering*, 2646-2656, Nov. 2010.
31. "Automatic Segmentation of Spinal Cord MRI using Symmetric Boundary Tracing," (D.P. Mukherjee, I. Cheng, N. Ray, V. Mushawar, M. Lebel and A. Basu), *IEEE Trans. on Information Technology in Biomedicine*, 1275-1278, Sept. 2010.
32. "Interactive Graphics for Computer Adaptive Testing," (I. Cheng and A. Basu), *Computer Graphics Forum*, 2033-2045, December 2009.
33. "Interactive Multimedia Education: Anywhere at Anytime for Anyone," (I. Cheng, A. Basu and R. Goebel), *IEEE Multimedia Magazine*, 16-25, Jan-Mar 2009.
34. "Stereo 3D Mouse Cursor: A Method for Interaction with 3D Objects in a Stereoscopic Virtual 3D Space," (H. Azari, I. Cheng and A. Basu), *International Journal on Digital Multimedia Broadcasting (Special Issue on 3D TV)*, 9 pages, 2009.
35. "Fluid Vector Flow and Applications in Brain Tumor Segmentation," (T. Wang, I. Cheng and A. Basu), *IEEE Trans. on Biomedical Engineering*, 781-789, March 2009.
36. I. Cheng, A. Basu and R.G. Goebel, "Interactive Multimedia for Adaptive Online Education," *IEEE Multimedia*, in press, 2008.

37. I. Cheng, L. Ying, K. Daniilidis and A. Basu, "Robust and Scalable Transmission of Arbitrary 3D Models over Wireless Networks," *EURASIP Journal on Image and Video Processing*, Special Issue, 12 pages, 2008.
38. M. Singh, A. Basu and M.K. Mandal, "Human activity recognition based on silhouette directionality," *IEEE Transactions on Circuits and Systems for Video Technology*, 14 pages, 2008.
39. I. Cheng and A. Basu, "An effective multimedia item shell design for individualized education: The CROME project," *Advances in Multimedia*, 2008.
40. I. Cheng and A. Basu, "Perceptually optimized 3D transmission over wireless networks," *IEEE Trans. on Multimedia*, 386-396, vol. 9, no. 2, Feb 2007.
41. I. Cheng, L. Ying and A. Basu, "Packet-loss modeling for perceptually optimized 3D transmission," *Advances in Multimedia*, 10 journal pages, 2007.
42. M. Singh, A. Basu and M.K. Mandal, "Event dynamics based temporal image registration," *IEEE Transactions on Multimedia*, 30 ms pages, 2007.
43. T. Wang and A. Basu, "A note on 'A fully parallel 3D thinning algorithm and its applications'," *Pattern Recognition Letters*, 501-506, vol. 28, 2007.
44. M. Pi, C.S. Tong and A. Basu, "Fractal-based edge extraction and its application to textured image retrieval," *Journal of Electronic Imaging*, 013012-1 to 013012-9, Jan-Mar 2006.
45. V. Sanchez, M.K. Mandal and A. Basu, "Robust transmission of regions of interest in JPEG2000," *Journal of Electronic Imaging*, 013008-1 to 013008-6, Jan-Mar 2006.
46. Y. Pan, I. Cheng and A. Basu, "Quality metric for approximating subjective evaluation of 3D objects," *IEEE Transactions on Multimedia*, 269-279, April 2005.
47. M. Pi, M. Mandal and A. Basu, "Image retrieval based on histogram of fractal parameters," *IEEE Transactions on Multimedia*, 597-605, Aug. 2005.
48. M. Singh, M.K. Mandal and A. Basu, "Gaussian and Laplacian of Gaussian weighting functions for robust feature based tracking," *Pattern Recognition Letters*, 11 pages, 2005
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51. L. Yin, A. Basu and J.K. Chang, "Scalable edge enhancement for digital x-ray images with automatic optimization," *Pattern Recognition*, 1407-1422, July 2004.

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53. I. Cheng and A. Basu, "QoS based video delivery with foveation," *Pattern Recognition Letters*, 2675-2686, vol. 24, 2003.
54. Y. Yu, I. Cheng and A. Basu, "Optimal adaptive bandwidth monitoring for QoS based retrieval," *IEEE Transactions on Multimedia*, 466-472, September 2003.
55. L. Yin, A. Basu and M. Yourst, "Active tracking and cloning of facial expression," *Int. Journal of AI Tools*, 279-295, vol. 12, #3, 2003.
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57. A. Basu and H. Sahabi, "Analysis of depth estimation error for cylindrical stereo imaging", *Pattern Recognition*, 2549-2558, Nov. 2002.
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60. "Improving image and video transmission quality over ATM with foveal prioritization and priority dithering", (K. Wiebe and A. Basu), *Pattern Recognition Letters*, 905-915, 2001.
61. "Efficient coordinated motion," (A. Basu, A. Elnagar and R. Al-Hajj), *Mathematical and Computer Modeling (Pergamon)*, 39-53, vol. 31, 2000.
62. L. Yin, A. Basu, S. Bernoegger and A. Pinz, "Synthesizing realistic facial animations using energy minimization for model based coding", *Pattern Recognition*, 2000.
63. L. Yin and A. Basu, "Active face tracking for model-based coding," *Pattern Recognition Letters*, vol. 20, 1999, 651-657.
64. A. Basu and K. Wiebe, "Videoconferencing using spatially varying sensing," *IEEE Transactions on Systems, Man, and Cybernetics*, March 1998, 137-148.
65. K. Wiebe and A. Basu, "Modeling ecologically specialized biological visual systems," *Pattern Recognition*, 30 ms. pages, 1998.
66. A. Basu and K. Ravi, "Active camera calibration using pan, tilt, and roll," *IEEE Transactions on SMC*, 24 ms. pages, 1997.

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70. A. Basu and S. Licardie, "Alternative models for fish-eye lenses," *Pattern Recognition Letters*, 433-441, April 1995.
71. A. Basu and A. Elnagar, "Safety optimizing strategies for local path planning in dynamic environments," *International Journal of Robotics and Automation*, Vol. 10, No. 4, 130-142, 1995.
72. A. Basu, "Active calibration: Theory and implementation," *IEEE Transactions on SMC*, 256-265, February 1995. (Earlier version in IEEE CVPR proceedings, NY, June 1992.)
73. D. Murray and A. Basu, "Motion tracking with an active camera," *IEEE Transactions on PAMI*, 449-459, May 1994.
74. A. Elnagar and A. Basu, "Heuristics for local path planning," *IEEE Transactions on SMC*, 624-634, March/April 1993.
75. A. Basu, "Optimal discretization for stereo reconstruction," *Pattern Recognition Letters*, 813-820, Nov 1992.
76. X. Li and A. Basu, "Variable resolution character thinning," *Pattern Recognition Letters*, 241-248, April 1992.
77. A. Basu and J. Aloimonos, "A robust correspondenceless translation determining algorithm," *International Journal of Robotics Research*, October 1990, 35-59.
78. A. Basu and C.M. Brown, "Algorithms and Hardware for Efficient Image Smoothing," *Computer Vision, Graphics and Image Processing*, vol. 40, 1987, 131-146.

Selected publications in conference proceedings and presentation abstracts:

1. "Spatio-temporal optimized multi-sensor motion fusion," (X. Sun, I. Cheng and A. Basu), IEEE International Symposium on Multimedia, 1-6, San Jose, Dec 2016.
2. "Robust Human Animation Skeleton Extraction using Compatibility and Correctness Constraints," (N. Hajari, I. Cheng and A. Basu), IEEE International Symposium on Multimedia, 1-6, San Jose, Dec 2016.

3. S. Tan et al., and A. Basu, "Crowd Visualization on Mobile Devices based on Video Analysis for Low Bandwidth Mobile Devices," Mobile Graphics at Siggraph Asia, 1-5, Dec. 2016.
4. A. Furtado, I. Cheng, E. Fung, B. Zheng and A. Basu, "Low Resolution Tool Tracking for Microsurgical Training," IEEE Engineering in Medicine and Biology Conference, Orlando, Florida, pages 1-4, August 2016.
5. N. Hajari, I. Cheng, B. Zheng and A. Basu, "Determining Team Cognition from Delay Analysis using Cross Recurrence Plots," IEEE Engineering in Medicine and Biology Conference, Orlando, Florida, pages 1-4, August 2016.
6. N.K. Kottayil, R. Bogdanova, I. Cheng, A. Basu and B. Zheng, "Investigation of Gaze Patterns in Multi View Laparoscopic Surgery," IEEE Engineering in Medicine and Biology Conference, Orlando, Florida, pages 1-4, August 2016.
7. S. Mukherjee, I.Cheng and A. Basu, "Highlighting Objects of Interest in an Image by Integrating Saliency and Depth," IEEE International Conference on Image Processing, pages 1-5, Phoenix, Arizona, Sep 2016.
8. "Robust Transmission of Motion Capture Data using Interleaved LDPC and Inverse Kinematics," (A. Furtado, I. Cheng, F. Dufaux and A. Basu), Eurographics, Short Paper, 4 pages, Lisbon, Portugal, May 2106.
9. "Foveated High Efficiency Video Coding for Low Bit Rate Transmission," (I. Cheng, M. Mohammadkhani, F. Dufaux and A. Basu), IEEE International Symposium on Multimedia, 547-552, Miami, Dec 2015.
10. "Normalized Gaussian Distance Graph Cuts for Image Segmentation," (C. Leng, W. Xu, I. Cheng, Z. Xiong and A. Basu), IEEE International Symposium on Multimedia, 523-528, Miami, Dec 2015.
11. "Ground Truth Delineation for Medical Image Segmentation based on Local Consistency and Distribution Map Analysis," (I. Cheng, X. Sun et al., and A. Basu), IEEE International Conference on Engineering in Medicine and Biology (EMBC), 4 pages, Milan, Italy, August 2015.
12. I. Cheng, A. Firouzmanesh and A. Basu, "Efficient interactive visualization of crowd scenes on mobile devices," Siggraph Asia Symposium on Mobile Graphics, 6 pages, Dec. 2014.
13. N. Rossol, I. Cheng, R. Shen and A. Basu, "Touchfree Medical Interfaces," IEEE International Conference on Engineering in Medicine and Biology (EMBC), 4 pages, Chicago, August 2014.

14. I. Cheng, R. Shen, R. Moreau, V. Brizzi, N. Rossol and A. Basu, "An Augmented Reality Framework for Optimization of Computer Assisted Navigation in Endovascular Surgery," IEEE International Conference on Engineering in Medicine and Biology (EMBC), 4 pages, Chicago, August 2014.
15. "Perceptually Motivated Real-Time Compression of Motion Data Enhanced by Incremental Encoding and Parameter Tuning," (A. Firouzmaneh, I. Cheng and A. Basu), Eurographics, Short Paper, 4 pages, Spain, May 2103.
16. "Perceptual Quality Metrics for 3D Meshes: Towards an Optimal Multi-Attribute Computational Model," G. Lavoué, I. Cheng and A. Basu, IEEE International Conference on Systems, Man and Cybernetics (SMC), 1-6, Manchester, UK, 2013.
17. "Evaluation of 3D Model Segmentation Techniques based on Animal Anatomy," N. Hajari, I. Cheng, G. Lavoué and A. Basu, IEEE International Conference on Systems, Man and Cybernetics (SMC), 1-6, Manchester, UK, 2013.
18. "A Time Series 3D Hierarchy for Real-time Dynamic Point Cloud Interaction," (H. Azari, I. Cheng and A. Basu), SIGGRAPH Asia, Technical Brief, 5 pages, Singapore, December 2102.
19. "Next Generation Handheld Graphics Edutainment for Learning in an Adaptive Student Centric Environment," (I. Cheng, O. Bilash, W.F. Bischof and A. Basu), EUROGRAPHICS Education Track, Cagliari, Sardinia, May 2012 (8 pages).
20. "A General Optimal Pixel Aspect Ratio Model for Stereo-based 3D Reconstruction and Visualization," (H. Azari, I. Cheng and A. Basu), IEEE SMC Conference, 6 pages, Seoul, October 2102.
21. "Hand and Face tracking under Occlusion with Anthropomorphic Constraints," (A. Sen, I. Cheng and A. Basu), IEEE SMC Conference, 6 pages, Seoul, October 2102.
22. "Perceptual factors in Graphics: from JND to PAM," (I. Cheng, A. Firouzmanesh and A. Basu), Plenary Talk in Indian Conference in Computer Vision, Hubli, pp 6-10, Dec. 2011.
23. "Automatic medical image analysis and potential impact in India," (A. Basu, I. Cheng, R. Shen and T. Wang), Plenary Talk in Indian Conference in Computer Vision, Hubli, pp. 1-5, Dec. 2011.
24. "A framework for adaptive training and games in virtual reality rehabilitation environments," (N. Rossol, I. Cheng, W.F. Bischof and A. Basu), ACM Virtual Reality Continuum in conjunction with SIGGRAPH Asia, pp 343-346, Hong Kong, Dec 2011.
25. "Optimized Point Splatting based on a Fully-Balanced Hierarchical Structure," (H. Azari, I. Cheng and A. Basu), IEEE Int. Conference on Multimedia (Long Paper), 6 pages, July 2011.

26. "Anatomy Preserving 3D Model Decomposition based on Robust Skeleton-Surface Node Correspondence," (L. Shi, I. Cheng and A. Basu), IEEE Int. Conference on Multimedia (Long Paper), 6 pages, July 2011.
27. "An In-Place Texture Synthesis Technique for Memory Constrained Multimedia Applications," (A. Badalov, I. Cheng, C. Silva and A. Basu), IEEE Int. Conference on Multimedia (Short Paper), 4 pages, July 2011.
28. "Temporal-Spatial Face Recognition Using Multi-Atlas and Markov Process Model," (G. Guo, R. Shen, Y. Wang and A. Basu), IEEE Int. Conference on Multimedia (Short Paper), 4 pages, July 2011.
29. "3D Fluid Vector Flow and Applications in Brain Tumor Segmentation," (T. Wang, I. Cheng and A. Basu), *Proceedings of IEEE Int. Conference on Image Processing*, Sep 2010.
30. "Intelligent Games for Education - An Intention Monitoring Approach based on Dynamic Bayesian Network," (I. Cheng, S. Rodrigues, F. Chen, O.G. Panyella, L. Vicent and A. Basu), EUROGRAPHICS Education Track, Norrkoping, Sweden, May 2010 (8 pages).
31. I. Cheng, D. Mitchel, A. Argyros and A. Basu, "A HIMI Model for Collaborative Multi-Touch Multimedia Education," In *Proceedings ACM Multimedia (Workshop on Ambient Multimedia)*, 10 pages, Oct. 2009.
32. F. Chen, I. Cheng and A. Basu. "Distortion Metric for Robust 3D Point Cloud Transmission" In *Proceedings IEEE Int. Conference on Multimedia and Expo*, 4 pages, NY, USA, July 2009.
33. F. Chen, I. Cheng and A. Basu. "Integrating 3D Point Clouds with Multi-viewpoint Video" In *Proceedings IEEE 3D TV Conference*, 4 pages, Potsdam, Germany, May 2009.
34. H. Azari, I. Cheng and A. Basu. "Stereo 3D Mouse (S3D-Mouse): Measuring Ground Truth for Medical Data in a Virtual 3D Space." In *Proceedings IEEE Engineering in Medicine and Biology Society (EMBS) Conference*, 4 pages, Minneapolis, USA, August 2009.
35. T. Wang, I. Cheng, V. Lopez, E. Bribesca and A. Basu, "Valence normalized spatial median for skeletonization and matching," In *Proceedings IEEE International Conference on Computer Vision (Search in 3D and Video Workshop)*, 8 pages, September 2009.
36. H. Azari, I. Cheng and A. Basu, "Optimal Pixel Aspect Ratio for Stereoscopic 3D Displays under Practical Viewing Conditions," *IEEE 3D TV Conference*, 4 pages, 2009.
37. T. Xu, M. Mandal, R. Long and A. Basu, "Gradient Vector Flow based Active Shape Model for Lung Field Segmentation in Chest Radiographs," *IEEE EMBS Conference*, 4 pages, 2009.

38. "Stereo Matching Using Random Walks," (R. Shen, I. Cheng, X. Li and A. Basu), IEEE Int. Conf. on Pattern Recognition (ICPR), Florida, USA, 2008 (4 pages).
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41. I. Cheng, A. Badalov, C. Silva and A. Basu, "Effects of texture and color on the perception of medical images," IEEE EMB Conference, Vancouver, August 2008, 4 pages.
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43. I. Cheng, R. Shen and A. Basu, "Automatic difficulty level estimation for Multimedia Item Types," IEEE ICALT, 5 pages, July 2008, Santander, Spain.
44. I. Cheng and A. Basu, "Graphics based Computer Adaptive Testing and Beyond," EUROGRAPHICS, Education paper, 8 pages, April. 2008, Crete, Greece.
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58. T. Wang and A. Basu, "Automatic estimation of 3D transformations using skeletons for object alignment," IAPR/IEEE International Conference on Pattern Recognition, 4 pages, Hong Kong, August 2006.
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60. L. Ying and A. Basu, "pcVOD: Internet peer-to-peer video-on-demand with storage caching on peers," International Conference on Distributed Multimedia Systems, 6 pages, Banff, September 2005.
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62. I. Cheng, L. Ying and A. Basu, "A perceptually driven model for transmission of arbitrary 3D models over unreliable networks," IEEE Symposium of 3D Processing, Visualization and Transmission, 8 pages, Special Session Presentation, Chapel Hill, NC, USA, June 2006.
63. I. Cheng and A. Basu, "Perceptually optimized 3D transmission over wireless networks," *SIGGRAPH, Web Program*, Technical Paper, 9 proceedings pages, Los Angeles, USA, August 2005.
64. M. Singh, M. Mandal and A. Basu, "Visual gesture recognition for ground air traffic control

- using the radon transform,” *IEEE IROS Conference*, 6 proceedings pages, Edmonton, Canada, 2005.
65. Y. Liu, A. Basu and J.S. Kim, “3D model adaptation using interactive feedback,” *Indian Conference on Computer Vision, Graphics and Image Processing*, Calcutta, India, December 2004, 6 proceedings pages.
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