CURRICULUM VITAE

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PERSONAL DATA

Born March 14, 1951, Gilroy, California
Married, one child
United States Citizen

EDUCATION

1979	Ph.D.	University of Maryland	Computer Science
1974	M.S.	University of California, Los Angeles	Computer Science
1973	B.S.	Stanford University	Mathematical Sciences

EXPERIENCE

1988-2005	Professor, Department of Computer Sciences, University of Wisconsin
1999-2000	Professor, International Academic Program at Florence, Italy
1999-	Visiting Fellow, Exeter College, University of Oxford
1990-1993	Professor, Department of Biostatistics and Medical Informatics, University of Wisconsin
1987-1990	Chair, Department of Computer Sciences, University of Wisconsin
1985-1988	Associate Chair, Department of Computer Sciences, University of Wisconsin
1982-1985	Associate Professor, Department of Computer Sciences, University of Wisconsin
1979-1982	Assistant Professor, Department of Computer Sciences, University of Wisconsin
	Assistant Professor, Department of Electrical Engineering and Computer Science, University of Illinois at Chicago

HONORS AND AWARDS

Fellow, Institute of Electrical and Electronics Engineers, 1998
Fellow, International Association for Pattern Recognition, 2002
Visiting Fellowship, Exeter College, University of Oxford, 1999-2000
Best Paper Award, IEEE Computer Vision and Pattern Recognition Conference, 1994
Research Initiation Award, National Science Foundation, 1983-1985

RECENT GRANTS

Co-Principal Investigator, *RI: Text-to-Picture Synthesis*, National Science Foundation, 8/07 – 7/10 (with X. Zhu)

Trainer, *Computation and Informatics in Biology and Medicine*, National Library of Medicine, 7/02 – present (PI: G. Phillips)

PATENTS

Photorealistic Scene Reconstruction by Voxel Coloring, with S. M. Seitz, U.S. Patent No. 6,363,170, March 26, 2002

Ph.D. STUDENTS

Yu-Chi Lai, *Photorealistic Animation Rendering with Population Monte Carlo Energy Redistribution*, 2010

Guodong Guo, *Face, Expression, and Iris Recognition using Learning-based Approaches*, 2006

Shaohua Fan, *Sequential Monte Carlo Methods for Physically Based Rendering*, 2006

Russell A. Manning, *Screw-Transform Manifolds for Camera Self Calibration*, 2003

Liang-Yin Yu, *Active 3D Surface Modeling using Perception-Based Differential-Geometric Primitives*, 1999

Gareth S. Bestor, *Recovering Feature and Observer Position by Projected Error Refinement*, 1998

Steven M. Seitz, *Image-Based Transformation of Viewpoint and Scene Appearance*, 1997

William L. Hibbard, *Visualizing Scientific Computations: A System based on Lattice-Structured Data and Display Models*, 1995

Kiriakos N. Kutulakos, *Exploring Three-Dimensional Objects by Controlling the Point of Observation*, 1994

Mark C. Allmen, *Image Sequence Description using Spatiotemporal Flow Curves: Toward Motion-Based Recognition*, 1991

W. Brent Seales, *Appearance Models of Three-Dimensional Shape for Machine Vision and Graphics*, 1991

W. Harry Plantinga, *The Asp: A Continuous, Viewer-Centered Object Representation for Computer Vision*, 1988

Charles V. Stewart, *Connectionist Models of Stereo Vision*, 1988

Bradley P. Kjell, *Oriented Edge Separation Texture Measures*, 1985

PROFESSIONAL ACTIVITIES

Editorial Boards

Associate Editor, IEEE Transactions on Pattern Analysis and Machine Intelligence, 1987-1991
Editorial Board, Journal of Machine Vision and Applications, 1987-1994, 2004-date
Subject Area Editor, Journal of Parallel and Distributed Computing, 1984-1988

Professional Societies

Fellow, Institute of Electrical and Electronics Engineers (IEEE)
Fellow, International Association for Pattern Recognition (IAPR)
Member, Sigma Xi

Professional Committees

Member, Leadership Committee, UW-Madison Eye Research Institute, 2006-date
Member, UW-Madison Cognitive Science Cluster, 2007-date
Member, Governing Board, International Association for Pattern Recognition (IAPR), 2002-2010
Member, IAPR Fellow Committee, 2006-2008
Chair, IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence, 2002-2003
Vice Chair, IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence, 2004-2005
Member, Steering Committee, IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence, 2004-2005
Member, National Science Foundation review panels, 1986-date
Program Committee, 24th Computer Vision and Pattern Recognition Conference, 2011
Program Committee, Electronic Imaging 2011: Computer Vision and Image Analysis of Art II, 2011
Program Committee, 20th International Conference on Pattern Recognition, 2010
Program Committee, 23rd Computer Vision and Pattern Recognition Conference, 2010
Program Committee, International Workshop on Person-Oriented Vision, 2010
Program Committee, Electronic Imaging 2010: Computer Vision and Image Analysis in the Study of Art, 2010
Program Committee, 9th Asian Conference on Computer Vision, 2009
Area Chair, Program Committee, Computer Vision and Pattern Recognition Conference, 2009
Program Committee, 12th International Conference on Computer Vision, 2009

Program Committee, 10th European Conference on Computer Vision, 2008
Program Committee, Computer Vision and Pattern Recognition Conference, 2008
Program Committee, SPIE International Symposium on Computer Image Analysis in the Study of Art, 2008
Program Committee, 11th International Conference on Computer Vision, 2007
Program Committee, Workshop on Interactive Computer Vision, 2007
Program Committee, Computer Vision and Pattern Recognition Conference, 2007
Program Committee, 20th International Conference on Intelligent Robots and Systems, 2007
Program Committee, IEEE Workshop on Motion and Video Computing, 2007
Program Committee, 13th International Conference on Image Processing, 2006
Program Committee, 9th European Conference on Computer Vision, 2006
Program Committee, International Conference on Image Analysis and Processing, 2005
Program Committee, Second IEEE Workshop on Image and Video Registration, 2004
Program Committee, 8th European Conference on Computer Vision, 2004
Program Committee, 17th International Conference on Pattern Recognition, 2004
General Co-Chair, Computer Vision and Pattern Recognition Conference, 2003
Program Committee, International Conference on Intelligent Robots and Systems, 2003
Program Committee, IEEE International Conference on Image Processing, 2003
Program Committee, 12th International Conference on Image Analysis and Processing, 2003
Program Committee, Model-based Imaging, Rendering, Analysis and Graphical Effects, 2003
Program Committee, IEEE Workshop on Image and Video Registration, 2003
Program Committee, Vision and Modeling of Dynamic Scenes Workshop, 2002
Program Committee, IEEE Computer Society Bioinformatics Conference, 2002
Program Committee, Workshop on Video Registration, 2001
Program Committee, 2nd Workshop on 3D Structure from Multiple Images of Large-Scale Environments, 2000
Workshops Chair, Computer Vision and Pattern Recognition Conference, 1999
Program Committee, Workshop on Multi-View Modeling and Analysis of Visual Scenes, 1999
Program Committee, 7th International Conference on Computer Vision, 1999
Program Committee, 6th International Conference on Computer Vision, 1998
Program Committee, 4th Asian Conference on Computer Vision, 1998
Program Committee, International Conference on Robotics and Automation, 1997
Program Co-Chair, Computer Vision and Pattern Recognition Conference, 1996
Program Committee, 2nd International Conference on Image Processing, 1995
Program Committee, IEEE Workshop on Computer Vision, 1995
Program Committee, International Symposium on Computer Vision, 1995
Program Committee, International Computer Science Conference, 1995
Member, IEEE Pattern Analysis and Machine Intelligence Advisory Board, 1991-1994
Program Committee, 12th International Conference on Pattern Recognition (Computer Vision and Image Processing Conference), 1994
Member, National Science Foundation Advisory Committee for the Division of Information, Robotics and Intelligent Systems, 1989-1992 (Chair, 1991-1992)
Program Co-Chair, IEEE Workshop on Applications of Computer Vision, 1992
Program Committee, Computer Vision and Pattern Recognition Conference, 1992

Program Committee, SPIE Conference on Applications of Artificial Intelligence X: Machine Vision and Robotics, 1992

Program Committee, IEEE Workshop on Directions in Automated CAD-Based Vision, 1991

Program Committee, 10th International Conference on Pattern Recognition, 1990

Program Chair, Workshop on Computer Architecture for Pattern Analysis and Machine Intelligence, 1987

Program Committee, Workshop on Computer Architecture and Image Database Management, 1985

Invited Activities

Invited speaker, Conferenza Italiana Sistemi Intelligenti, Ancona, Italy, September 27, 2006, Face Recognition using Cyclographs and Summation Invariants

Invited Participant, Dagstuhl Workshop on Theoretical Foundations of Computer Vision: Multi-Image Search, Filtering, Reasoning and Visualization, Dagstuhl, Germany, 2000

Invited Participant, NSF Workshop on High Performance Computing and Communications for Grand Challenge Applications: Computer Vision, Natural Language and Speech Processing, and Artificial Intelligence, 1992

Invited Participant, NSF Workshop on Challenges in Computer Vision Research: Future Directions of Research, 1991

Department Administration (elected positions)

Member, Management Committee, Computation and Informatics in Biology and Medicine Training Grant, 2002-2005

Member, Finance Committee, Department of Computer Sciences, 1996-1999, 2000-2002

Chair, Department of Computer Sciences, 1990-1993

Member, Merit Review Committee, Department of Computer Sciences, 1990-1993, 2004

Associate Chair, Department of Computer Sciences, 1987-1990

Reviewing for Major Journals and Conferences

ACM Computing Surveys
Communications of the ACM
Computer Vision and Pattern Recognition Conference
Computer Vision, Graphics, and Image Processing: Image Understanding
IEEE Computer Magazine
IEEE MultiMedia Magazine
IEEE Transactions on Image Processing
IEEE Transactions on Pattern Analysis and Machine Intelligence
IEEE Transactions on Robotics and Automation
IEEE Transactions on Systems, Man and Cybernetics
IEEE Transactions on Acoustics, Speech, and Signal Processing
Image and Vision Computing
International Conference on Computer Vision
International Journal of Computer Vision
Journal of Real-Time Imaging
Machine Vision and Applications
SIGGRAPH Conference

Courses Taught

Computer Vision
Computational Photography
Machine Learning for Computer Vision Seminar
Hierarchical Computer Vision Seminar
Vision for Robotics and Automation Seminar
Introduction to Artificial Intelligence
Advanced Artificial Intelligence
Artificial Intelligence Programming Tools
The Science of Art
Advances in Science and Engineering in the Italian Renaissance

PUBLICATIONS

A. Journal Articles

1. A. Klinger and C. R. Dyer, Experiments on picture representation using regular decomposition, *Computer Graphics and Image Processing* **5**, 1976, 68-105.

2. J. Weszka, C. R. Dyer and A. Rosenfeld, A comparative study of texture measures for terrain classification, *IEEE Trans. Systems, Man, and Cybernetics* **6**, 1976, 269-285.

3. C. R. Dyer and A. Rosenfeld, Fourier texture features: Suppression of aperture effects, *IEEE Trans. Systems, Man, and Cybernetics* **6**, 1976, 703-705.

4. C. R. Dyer and A. Rosenfeld, Thinning algorithms for grayscale pictures, *IEEE Trans. Pattern Analysis and Machine Intelligence* **3**, 1979, 88-89.

5. T. Hong, C. R. Dyer and A. Rosenfeld, Texture primitive extraction using an edge-based approach, *IEEE Trans. Systems, Man, and Cybernetics* **10**, 1980, 659-675.

6. C. R. Dyer, A. Rosenfeld and H. Samet, Region representation: Boundary codes from quadtrees, *Comm. ACM* **23**, 1980, 171-179.

7. C. R. Dyer, T. Hong and A. Rosenfeld, Texture classification using gray level cooccurrence based on edge maxima, *IEEE Trans. Systems, Man, and Cybernetics* **10**, 1980, 158-163.

8. C. R. Dyer, One-way bounded cellular automata, *Information and Control* **44**, 1980, 261-281.

9. C. R. Dyer, Computing the Euler number of an image from its quadtree, *Computer Graphics and Image Processing* **13**, 1980, 270-276.

10. C. R. Dyer, A fast parallel algorithm for the closest pair problem, *Information Processing Letters* **11**, 1980, 49-52.

11. C. R. Dyer and A. Rosenfeld, Propagation algorithms for framing rectangle construction, *Pattern Recognition* **12**, 1980, 211-215.

12. C. R. Dyer, Relation of one-way parallel/sequential automata to two-dimensional finite-state automata, *Information Sciences* **23**, 1981, 25-30.

13. C. R. Dyer and A. Rosenfeld, Parallel image processing by memory-augmented cellular automata, *IEEE Trans. Pattern Analysis and Machine Intelligence* **3**, 1981, 29-41.

14. C. R. Dyer and A. Rosenfeld, Triangle cellular automata, *Information and Control* **48**, 1981, 54-69.

15. C. R. Dyer, The space efficiency of quadtrees, *Computer Graphics and Image Processing* **19**, 1982, 335-348.

16. C. R. Dyer, Gauge inspection using Hough transforms, *IEEE Trans. Pattern Analysis and Machine Intelligence* **5**, 1983, 621-623.

17. J. M. Cibulskis and C. R. Dyer, An analysis of node linking in overlapped pyramids, *IEEE Trans. Systems, Man, and Cybernetics* **14**, 1984, 424-436.

18. S-B. Ho and C. R. Dyer, Shape smoothing using medial axis properties, *IEEE Trans. Pattern Analysis and Machine Intelligence* **8**, 1986, 512-520.

19. C. F. Neveu, C. R. Dyer, and R. T. Chin, 2-D object recognition using multi-resolution models, *Computer Vision, Graphics, and Image Processing* **34**, 1986, 52-65.

20. R. T. Chin and C. R. Dyer, Model-based recognition in robot vision, *ACM Computing Surveys* **18**, 1986, 67-108.

21. M. F. Augusteijn and C. R. Dyer, Recognition and recovery of the three-dimensional orientation of planar point patterns, *Computer Vision, Graphics, and Image Processing* **36**, 1986, 76-99.

22. M. R. Korn and C. R. Dyer, 3-D multiview object representations for model-based object recognition, *Pattern Recognition* **20**, 1987, 91-103.

23. C. V. Stewart and C. R. Dyer, Scheduling algorithms for PIPE (Pipelined Image-Processing Engine), *J. Parallel and Distributed Computing* **5**, 1988, 131-153.

24. H. Plantinga and C. R. Dyer, Visibility, occlusion, and the aspect graph, *Int. J. of Computer Vision* **5**, 1990, 137-160.

25. K. W. Bowyer and C. R. Dyer, Aspect graphs: An introduction and survey of recent results, *Int. J. of Imaging Systems and Technologies* **2**, 1990, 315-328.

26. O. Faugeras, J. Mundy, N. Ahuja, C. R. Dyer, A. Pentland, R. Jain, K. Ikeuchi and K. Bowyer, Why aspect graphs are not (yet) practical for computer vision, *Computer Vision, Graphics and Image Processing: Image Understanding* **55**, 1992, 212-218.

27. W. B. Seales and C. R. Dyer, Viewpoint from occluding contour, *Computer Vision, Graphics and Image Processing: Image Understanding* **55**, 1992, 198-211.

28. B. Wah, T. Huang, A. Joshi, D. Moldovan, J. Aloimonos, R. Bajcsy, D. Ballard, D. DeGroot, K. DeJong, C. Dyer, S. Fahlman, R. Grishman, L. Hirschman, R. Korf, S. Levinson, D. Miranker, N. Morgan, S. Nirenburg, T. Poggio, E. Riseman, C. Stanfill, S. Stolfo, S. Tanimoto and C. Weems, Report on workshop on high performance computing and communications for grand challenge applications: Computer vision, speech and natural language processing, and artificial intelligence, *IEEE Trans. Knowledge and Data Engineering* **5**, 1993, 138-154.

29. D. W. Eggert, K. W. Bowyer, C. R. Dyer, H. I. Christensen and D. B. Goldgof, The scale space aspect graph, *IEEE Trans. Pattern Analysis and Machine Intelligence* **15**, 1993, 1114-1130.

30. M. Allmen and C. R. Dyer, Computing spatiotemporal relations for dynamic perceptual organization, *Computer Vision, Graphics, and Image Processing: Image Understanding* **58**, 1993, 338-351.

31. K. N. Kutulakos and C. R. Dyer, Recovering shape by purposive viewpoint adjustment, *Int. J. Computer Vision* **12**, 1994, 113-136.

32. W. Hibbard, B. E. Paul, A. L. Battaiola, D. A. Santek, M-F. Voidrot-Martinez, and C. R. Dyer, Interactive visualization of computations in the earth and space sciences, *IEEE Computer* **27**(7), July 1994, 65-72.

33. K. N. Kutulakos and C. R. Dyer, Global surface reconstruction by purposive control of observer motion, *Artificial Intelligence* **78**(1-2), 1995, 147-177.

34. S. M. Seitz and C. R. Dyer, View-invariant analysis of cyclic motion, *Int. J. Computer Vision* **25**(3), 1997, 231-251.

35. M. G. Fleming, C. Steger, J. Zhang, J. Gao, A. B. Cognetta, I. Pollak and C. R. Dyer, Techniques for a structural analysis of dermatoscopic imagery, *Computerized Medical Imaging and Graphics* **22**, 1998, 375-389.

36. S. M. Seitz and C. R. Dyer, Photorealistic scene reconstruction by voxel coloring, *Int. J. Computer Vision* **35**(2), 1999, 151-173.

37. G-D. Guo and C. R. Dyer, Learning from examples in the small sample case: Face expression recognition, *IEEE Transactions on Systems, Man and Cybernetics Part B: Cybernetics* **35**(3), 2005, 479-488.

38. W. Liu, J. A. Zagzebski, T. Varghese, C. R. Dyer, U. Techavipoo and T. J. Hall, Segmentation of elastographic images using a coarse-to-fine active contour model, *Ultrasound in Medicine and Biology* **32**(3), 2006, 397-408.

39. G-D. Guo, Y. Fu, T. S. Huang and C. R. Dyer, Image-based human age estimation by manifold learning and locally adjusted robust regression, *IEEE Trans. Image Processing* **17**(7), 2008, 1178-1188.

B. Book Chapters

1. B. H. McCormick, E. W. Kent and C. R. Dyer, A cognitive architecture for computer vision, in *Fifth Generation Computer Systems*, T. Moto-Oka, ed., North-Holland, Amsterdam, 1982, 245-264.

2. C. R. Dyer, Pyramid algorithms and machines, in *Multicomputers and Image Processing: Algorithms and Programs*, K. Preston and L. Uhr, eds., Academic Press, New York, 1982, 409-420.

3. B. H. McCormick, E. W. Kent and C. R. Dyer, A visual analyzer for real-time interpretation of time-varying imagery, in *Multicomputers and Image Processing: Algorithms and Programs*, K. Preston and L. Uhr, eds., Academic Press, New York, 1982, 453-464.

4. J. M. Cibulskis and C. R. Dyer, Node linking strategies in pyramids for image segmentation, in *Multiresolution Image Processing and Analysis*, A. Rosenfeld, ed., Springer-Verlag, Berlin, 1984, 109-120.

5. C. R. Dyer and M. J. Clarke, VLSI architectures for curve detection, in *VLSI for Pattern Recognition and Image Processing*, K. S. Fu, ed., Springer-Verlag, New York, 1984, 157-173.

6. B. P. Kjell and C. R. Dyer, Segmentation of textured images by pyramid linking, in *Pyramidal Systems for Computer Vision*, V. Cantoni and S. Levialdi, eds., Springer-Verlag, Berlin, 1986, 273-288.

7. C. R. Dyer, Multiscale image understanding, in *Parallel Computer Vision*, L. Uhr, ed., Academic Press, New York, 1987, 171-213.

8. G. Verghese, K. L. Gale and C. R. Dyer, Real-time, parallel motion tracking of three-dimensional objects from spatiotemporal sequences, in *Parallel Algorithms for Machine Intelligence and Vision*, V. Kumar, P. Gopalakrishnan and L. Kanal, eds., Springer-Verlag, New York, 1990, 310-339.

9. C. V. Stewart and C. R. Dyer, Parallel simulation of a connectionist stereo algorithm on a shared-memory multiprocessor, in *Parallel Algorithms for Machine Intelligence and Vision*, V. Kumar, P. Gopalakrishnan and L. Kanal, eds., Springer-Verlag, New York, 1990, 340-359.

10. C. R. Dyer and A. Rosenfeld, Thinning algorithms for grayscale pictures, in *Fuzzy Models for Pattern Recognition: Methods That Search for Structures in Data*, J. C. Bezdek and S. K. Pal, eds., IEEE Press, Piscataway, N.J., 1992, 347-348.

11. K. W. Bowyer and C. R. Dyer, Three-dimensional shape representation, in *Handbook of Pattern Recognition and Image Processing: Computer Vision*, T. Y. Young, ed., Academic Press, New York, 1994, 17-51.

12. W. Hibbard, C. R. Dyer and B. Paul, The VIS-AD data model: Integrating metadata and polymorphic display with a scientific programming language, in *Database Issues for Data Visualization* (Lecture Notes in Computer Science No. 871), J. P. Lee and G. G. Grinstein, eds., Springer-Verlag, New York, 1994, 37-68.

13. W. L. Hibbard, C. R. Dyer, and B. E. Paul, Interactivity and the dimensionality of data displays, in *Perceptual Issues in Visualization*, G. Grinstein and H. Levkowitz, eds., Springer-Verlag, Berlin, 1995, 75-82.

14. L-Y. Yu and C. R. Dyer, Shape recovery from stationary surface contours by controlled observer motion, in *Advances in Image Understanding: A Festschrift for Azriel Rosenfeld*, K. Bowyer and N. Ahuja, eds., IEEE Computer Society Press, Los Alamitos, Ca., 1996, 177-193.

15. S. M. Seitz and C. R. Dyer, Cyclic motion analysis using the period trace, in *Motion-Based Recognition*, M. Shah and R. Jain, eds., Kluwer, Boston, 1997, 61-85.

16. C. R. Dyer, Volumetric scene reconstruction from multiple views, in *Foundations of Image Understanding*, L. S. Davis, ed., Kluwer, Boston, 2001, 469-489.

17. R. Arora and C. R. Dyer, Joint projective invariants for distributed camera networks, in *Distributed Video Sensor Networks*, B. Bhanu, C. V. Ravishankar, A. K. Roy-Chowdhury, H. Aghajan, and D. Terzopoulos, eds., Springer, New York, 2010.

C. Refereed Conference Papers

1. C. R. Dyer and D. L. Milgram, Viewmaster — A system for building image processing programs, *Proc. 8th Symp. Automatic Imagery Pattern Recognition*, 1978, 170-179.

2. A. Nakamura and C. R. Dyer, Bottom-up cellular pyramids for image analysis, *Proc. 4th Int. Joint Conf. Pattern Recognition*, 1978, 494-496.

3. P. Selfridge, J. Prewitt, C. R. Dyer and S. Ranade, Segmentation algorithms for abdominal computerized tomography scans, *Proc. 3rd Int. Computer Software and Applications Conf.*, 1979, 571-577.

4. C. R. Dyer, Space efficiency of region representation by quadtrees, *Proc. Workshop on Picture Data Description and Management*, 1980, 31-36.

5. C. R. McLean and C. R. Dyer, An analog relaxation processor, *Proc. 5th Int. Conf. Pattern Recognition*, 1980, 58-60.

6. C. R. Dyer, A VLSI pyramid machine for hierarchical parallel image processing, *Proc. IEEE Conf. Pattern Recognition and Image Processing*, 1981, 381-386.

7. C. R. Dyer and M. J. Clarke, Optimal curve detection in VLSI, *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, 1983, 161-162.

8. M. J. Clarke and C. R. Dyer, Systolic arrays for a dynamic programming application, *Proc. 12th IEEE Workshop Applied Imagery Pattern Recognition*, 1983.

9. C. R. Dyer and S-B. Ho, Medial-axis-based shape smoothing, *Proc. 7th Int. Conf. Pattern Recognition*, 1984, 333-335.

10. M. F. Augusteijn and C. R. Dyer, Model-based shape from contour and point patterns, *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, 1985, 100-105.

11. B. P. Kjell and C. R. Dyer, Edge separation and orientation texture measures, *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, 1985, 306-311.

12. C. F. Neveu, C. R. Dyer, and R. T. Chin, Object recognition using Hough pyramids, *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, 1985, 328-333.

13. Y. Luo, R. T. Chin, and C. R. Dyer, 2-D object recognition using hierarchical boundary segments, *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, 1985, 426-428.

14. B. P. Kjell and C. R. Dyer, Segmentation of textured images, *Proc. IEEE Conf. Computer Vision and Pattern Recognition*, 1986, 476-481.

15. C. R. Dyer and B. P. Kjell, Texture segmentation using edge-based tokens, *Proc. 12th Annual IEEE Industrial Electronics Society Conference*, 1986, 101-106.

16. W. H. Plantinga and C. R. Dyer, An algorithm for constructing the aspect graph, *Proc. 27th Annual Symp. Foundations of Computer Science*, 1986, 123-131.

17. W. H. Plantinga and C. R. Dyer, The Asp: A continuous, viewer-centered representation for 3D object recognition, *Proc. 1st Int. Conf. on Computer Vision*, 1987, 626-630.

18. C. V. Stewart and C. R. Dyer, Heuristic scheduling algorithms for PIPE, *Proc. Workshop on Computer Architecture for Pattern Analysis and Machine Intelligence*, 1987, 75-82.

19. C. V. Stewart and C. R. Dyer, A connectionist model for stereo vision, *Proc. IEEE 1st Int. Conf. on Neural Networks*, 1987, IV-215 - IV-223.

20. C. V. Stewart and C. R. Dyer, Local constraint integration in a connectionist model of stereo vision, *Proc. Computer Vision and Pattern Recognition Conf.*, 1988, 165-170.

21. C. V. Stewart and C. R. Dyer, The trinocular general support algorithm: A three-camera stereo algorithm for overcoming binocular matching errors, *Proc. 2nd Int. Conf. on Computer Vision*, 1988, 134-138.

22. G. Verghese, K. L. Gale and C. R. Dyer, Real-time motion tracking of three-dimensional objects, *Proc. IEEE Conf. Robotics and Automation*, 1990, 1998-2003.

23. H. Plantinga, C. R. Dyer and B. Seales, Real-time hidden-line elimination for a rotating polyhedral scene using the aspect representation, *Proc. Graphics Interface '90*, 1990, 9-16.

24. W. B. Seales and C. R. Dyer, Shaded rendering and shadow computation for polyhedral animation, *Proc. Graphics Interface '90*, 1990, 175-182.

25. M. Allmen and C. R. Dyer, Cyclic motion detection using spatiotemporal surfaces and curves, *Proc. 10th Int. Conf. on Pattern Recognition*, 1990, 365-370.

26. W. B. Seales and C. R. Dyer, Modeling the rim appearance, *Proc. 3rd Int. Conf. on Computer Vision*, 1990, 698-701.

27. M. Allmen and C. R. Dyer, Computing spatiotemporal surface flow, *Proc. 3rd Int. Conf. on Computer Vision*, 1990, 47-50.

28. W. B. Seales and C. R. Dyer, Representing the dynamics of the occluding contour, *Proc. SPIE, Vol. 1383: Sensor Fusion III: 3-D Perception and Recognition*, 1991, 47-58.

29. M. Allmen and C. R. Dyer, Long-range spatiotemporal motion understanding using spatiotemporal flow curves, *Proc. Computer Vision and Pattern Recognition Conf.*, 1991, 303-309.

30. W. B. Seales and C. R. Dyer, Constrained viewpoint from occluding contour, *Proc. Workshop on Directions in Automated CAD-Based Vision*, 1991, 54-63.

31. M. Allmen and C. R. Dyer, Toward spatiotemporal-motion-based recognition, *Proc. Int. Joint Conf. on Artificial Intelligence Workshop on Dynamic Scene Understanding*, 1991.

32. C. R. Dyer and W. B. Seales, Viewpoint from occluding contour, in *Progress in Image Analysis and Processing II: Proc. 6th Int. Conf. on Image Analysis and Processing*, V. Cantoni, M. Ferretti, S. Levialdi, R. Negrini and R. Stefanelli, eds., World Scientific, Singapore, 1992, 318-325.

33. W. Hibbard, C. R. Dyer and B. Paul, A development environment for data analysis algorithms, *Proc. Conf. Interactive Information and Processing Systems for Meteorology, Oceanography, and Hydrology*, 1992, 101-107.

34. K. N. Kutulakos and C. R. Dyer, Recovering shape by purposive viewpoint adjustment, *Proc. Computer Vision and Pattern Recognition Conf.*, 1992, 16-22.

35. D. W. Eggert, K. W. Bowyer, C. R. Dyer, H. I. Christensen and D. B. Goldgof, The scale space aspect graph, *Proc. Computer Vision and Pattern Recognition Conf.*, 1992, 335-340.

36. B. Seales and C. R. Dyer, An occlusion-based representation of shape for viewpoint recovery, *Proc. 10th European Conf. on Artificial Intelligence*, 1992, 816-820.

37. D. W. Eggert, K. W. Bowyer, C. R. Dyer, H. I. Christensen and D. B. Goldgof, Applying the scale space concept to perspective projection aspect graphs, in *Theory and Applications of Image Analysis: Selected Papers from the 7th Scandinavian Conference on Image Analysis*, P. Johansen and S. Olsen, eds., World Scientific, Singapore, 1992, 48-62.

38. W. Hibbard, C. R. Dyer and B. Paul, Display of scientific data structures for algorithm visualization, *Proc. Visualization '92*, 1992, 139-146.

39. W. Hibbard, C. R. Dyer and B. Paul, Using VIS-AD to visualize a cloud discrimination algorithm, *Video Proc. Visualization '92*, 1992.

40. T. Rhyne, M. Bolstad, P. Rheingans, L. Petterson, W. Shackleford, M. Botts, E. Pepke, K. Johnson, W. Hibbard, C. Dyer. B. Paul and L. Treinish, Visualization requirements in the atmospheric and environmental sciences, *Proc. Visualization '92*, 1992, 428-435.

41. W. Hibbard, C. R. Dyer and B. Paul, Graphical representations of scientific data, *Proc. Workshop on Two and Three Dimensional Spatial Data: Representation and Standards*, 1992.

42. W. Hibbard, C. R. Dyer and B. Paul, VIS-AD data management, *Proc. Conf. Iterative Information and Processing Systems for Meteorology, Oceanography, and Hydrology*, 1993, 158-161.

43. K. N. Kutulakos, V. J. Lumelsky, and C. R. Dyer, Vision-guided exploration: A step toward general motion planning in three dimensions, *Proc. 1993 IEEE Int. Conf. on Robotics and Automation*, 1993, 289-296.

44. K. N. Kutulakos and C. R. Dyer, Toward global surface reconstruction by purposive viewpoint adjustment, *Proc. Computer Vision and Pattern Recognition Conf.*, 1993, 726-727.

45. S. Waldon and C. R. Dyer, Dynamic shading, motion parallax and qualitative shape, *Proc. IEEE Workshop on Qualitative Vision*, 1993, 61-70.

46. K. N. Kutulakos, B. Seales and C. R. Dyer, Building global surface models by purposive and qualitative viewpoint adjustment, *Proc. SPIE, Vol. 2059: Sensor Fusion VI*, 1993, 368-383.

47. K. N. Kutulakos, W. B. Seales, and C. R. Dyer, Building global object models by purposive viewpoint control, *Proc. 2nd CAD-Based Vision Workshop*, 1994, 169-182.

48. K. N. Kutulakos, C. R. Dyer, and V. J. Lumelsky, Provable strategies for vision-guided exploration in three dimensions, *Proc. 1994 IEEE Int. Conf. Robotics and Automation*, 1994, 1365-1372.

49. K. N. Kutulakos and C. R. Dyer, Occluding contour detection using affine invariants and purposive viewpoint control, *Proc. Computer Vision and Pattern Recognition Conf.*, 1994, 323-330.

50. K. N. Kutulakos and C. R. Dyer, Global surface reconstruction by purposive control of observer motion, *Proc. Computer Vision and Pattern Recognition Conf.*, 1994, 331-338.

51. S. M. Seitz and C. R. Dyer, Affine invariant detection of periodic motion, *Proc. Computer Vision and Pattern Recognition Conf.*, 1994, 970-975.

52. W. L. Hibbard, C. R. Dyer, and B. E. Paul, A lattice model for data display, *Proc. Visualization '94*, 1994, 310-317.

53. S. M. Seitz and C. R. Dyer, Detecting irregularities in cyclic motion, *Proc. Workshop on Motion of Non-Rigid and Articulated Objects*, 1994, 178-185.

54. S. M. Seitz and C. R. Dyer, Complete scene structure from four point correspondences, *Proc. 5th Int. Conf. Computer Vision*, 1995, 330-337.

55. S. M. Seitz and C. R. Dyer, Physically-valid view synthesis by image interpolation, *Proc. Workshop on Representation of Visual Scenes*, 1995, 18-25.

56. S. M. Seitz and C. R. Dyer, View morphing, *Proc. SIGGRAPH 96*, 1996, 21-30.

57. S. M. Seitz and C. R. Dyer, Toward image-based scene representation using view morphing, *Proc. 13th Int. Conf. Pattern Recognition, Volume I, Track A: Computer Vision*, 1996, 84-89.

58. S. M. Seitz and C. R. Dyer, Photorealistic scene reconstruction by voxel coloring, *Proc. Computer Vision and Pattern Recognition Conf.*, 1997, 1067-1073.

59. L-Y. Yu and C. R. Dyer, Direct computation of differential invariants of image contours from shading, *Proc. 5th Int. Conf. Image Processing*, Vol. 1, 1998, 251-255.

60. R. A. Manning and C. R. Dyer, Interpolating view and scene motion by dynamic view morphing, *Proc. Computer Vision and Pattern Recognition Conf.*, Vol. 1, 1999, 388-394.

61. L-Y. Yu and C. R. Dyer, Perception-based 2D shape modeling by curvature shaping, *Proc. 4th Int. Workshop on Visual Form*, in C. Arcelli, L. P. Cordella and G. Sanniti di Baja, eds., *Visual Form 2001*, Springer-Verlag, Berlin, 2001, 272-282.

62. R. A. Manning and C. R. Dyer, Affine calibration from moving objects, *Proc. 8th Int. Conf. Computer Vision*, Vol. 1, 2001, 494-500.

63. L-Y. Yu and C. R. Dyer, Observer motion estimation and control from optical flow, *Proc. 8th Int. Conf. Image Processing*, Vol. 2, 2001, 941-944.

64. R. A. Manning and C. R. Dyer, Metric self calibration from screw-transform manifolds, *Proc. Computer Vision and Pattern Recognition Conf.*, Vol. 1, 2001, 590-597.

65. R. A. Manning and C. R. Dyer, Stratified self calibration from screw-transform manifolds, *Proc. 7th European Conf. Computer Vision, Vol. 4*, 2002, 131-145.

66. G-D. Guo and C. R. Dyer, Simultaneous feature selection and classifier training via linear programming: A case study for face expression recognition, *Proc. Computer Vision and Pattern Recognition Conf.*, Vol. I, 2003, 346-352.

67. S. Fan and C. R. Dyer, An automatic system for classification of nuclear sclerosis from slit-lamp photographs, *Proc. 6th Int. Conf. on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2003), Lecture Notes in Computer Science, Vol. 2878*, R. Ellis and T. Peters, eds., Springer, Berlin, 2003, 592-601.

68. W. Liu, J.A. Zagzebski, T. Varghese, C.R. Dyer, and U. Techavipoo, Automated thermal coagulation segmentation of three-dimensional elastographic imaging using an active contour model, *Proc. IEEE Ultrasonics Symposium*, 2004, 36-39.

69. G-D. Guo, C. R. Dyer, and Z. Zhang, Linear combination representation for outlier detection in motion tracking, *Proc. Computer Vision and Pattern Recognition Conf., Vol. 2*,

2005, 274-281.

70. X. Zhu, A. B. Goldberg, M. Eldawy, C. R. Dyer, and B. Strock, A text-to-picture synthesis system for augmenting communication, *Proc. 22nd AAAI Conf. on Artificial Intelligence*, 2007, 1590-1595.

71. G-D. Guo and C. R. Dyer, Patch-based image correlation with rapid filtering, *Proc. 2nd Beyond Patches Workshop*, 2007.

72. G-D. Guo and C. R. Dyer, Face cyclographs for recognition, *Proc. 8th Int. Conf. Computer Vision, Pattern Recognition and Image Processing*, 2007, 923-929.

73. Y-C. Lai, S. Fan, S. Chenney, and C. R. Dyer, Photorealistic image rendering with population Monte Carlo energy redistribution, *Proc. Eurographics Symp. Rendering*, 2007, 287-296.

74. G-D. Guo, Y. Fu, T. S. Huang, and C. R. Dyer, Locally adjusted robust regression for human age estimation, *Proc. IEEE Computer Society Workshop on Applications of Computer Vision*, 2008.

75. G-D. Guo, Y. Fu, C. R. Dyer, and T. S. Huang, A probabilistic fusion approach to human age prediction, *Proc. 3rd International Workshop on Semantic Learning and Applications in Multimedia*, 2008.

76. A. B. Goldberg, X. Zhu, C. R. Dyer, M. Eldawy, and L. Heng, Easy as ABC? Facilitating pictorial communication via semantically enhanced layout, *Proc. 12th Conf. Computational Natural Language Learning*, 2008, 119-126.

77. Y-C. Lai, F. Liu, L. Zhang, and C. R. Dyer, Efficient schemes for Monte Carlo Markov Chain algorithms in global illumination, *Proc. 4th Int. Symp. on Visual Computing*, 2008.

78. G-D. Guo, Y. Fu, C. R. Dyer, and T. Huang, Head pose estimation: Classification or regression?, *Proc. 19th Int. Conf. Pattern Recognition*, 2008.

79. R. Arora, Y. H. Hu, and C. R. Dyer, Estimating correspondence between multiple cameras using joint invariants, *Proc. Int. Conf. Acoustics, Speech, and Signal Processing*, 2009.

80. L. Mukherjee, V. Singh, and C. R. Dyer, Half-integrality based algorithms for cosegmentation of images, *Proc. Computer Vision and Pattern Recognition Conf.*, 2009.

81. G-D. Guo, G. Mu, Y. Fu, C. R. Dyer, and T. Huang, A study on automatic age estimation using a large database, *Proc. 12th Int. Conf. Computer Vision*, 2009.

82. G-D. Guo, C. R. Dyer, Y. Fu, and T. Huang, Is gender recognition influenced by age?, *Proc. IEEE Int. Workshop on Human-Computer Interaction*, 2009.

83. A. B. Goldberg, J. Rosin, X. Zhu, and C. R. Dyer. Toward text-to-picture synthesis, *Proc. NIPS 2009 Symposium on Assistive Machine Learning for People with Disabilities*, 2009.

84. R. Arora, C. R. Dyer, Y. H. Hu, and N. Boston, Distributed curve matching in camera networks using projective joint invariant signatures, *Proc. 4th ACM/IEEE Int. Conf. on Distributed Smart Cameras*, 2010.

D. Unrefereed and Invited Conference Papers

1. A. Rosenfeld, A. Danker and C. R. Dyer, Blob extraction by relaxation, *Proc. Image Understanding Workshop*, 1979, 61-65.

2. C. R. Dyer, Parallel algorithms and architectures for image analysis and computer vision, *Proc. 6th Multidimensional Signal Processing Workshop*, 1989, 7.

3. K. W. Bowyer and C. R. Dyer, Aspect graphs: An introduction and survey of recent results, *Proc. SPIE, Vol. 1395: Close-Range Photogrammetry meets Machine Vision*, 1990, 200-208.

4. D. W. Eggert, K. W. Bowyer and C. R. Dyer, Aspect graphs: State-of-the-art and applications in digital photogrammetry, *Proc. ISPRS 27th Congress: Int. Archives of Photogrammetry and Remote Sensing, Part B5*, 1992, 633-645.

5. C. R. Dyer, Image-based scene rendering and manipulation research at the University of Wisconsin, *Proc. Image Understanding Workshop*, 1997, 63-67.

6. S. M. Seitz and C. R. Dyer, View morphing: Uniquely predicting scene appearance from basis images, *Proc. Image Understanding Workshop*, 1997, 881-887.

7. S. M. Seitz and C. R. Dyer, Photorealistic scene reconstruction by voxel coloring, *Proc. Image Understanding Workshop*, 1997, 935-942.

8. C. R. Dyer, Image-based visualization from widely-separated views, *Proc. Image Understanding Workshop*, 1998, 101-105.

9. R. A. Manning and C. R. Dyer, Interpolating view and scene motion by dynamic view morphing, *Proc. Image Understanding Workshop*, 1998, 323-330.

10. A. C. Prock and C. R. Dyer, Towards real-time voxel coloring, *Proc. Image Understanding Workshop*, 1998, 315-321.

11. R. A. Manning and C. R. Dyer, Dynamic view interpolation without affine reconstruction, *Confluence of Computer Vision and Computer Graphics* (Proc. NATO Advanced Research Workshop), A. Leonardis, F. Solina, and R. Bajcsy, eds., Kluwer, Dordrecht, Netherlands, 2000, 123-142.

E. Technical Reports

1. C. R. Dyer, J. Weszka and A. Rosenfeld, Experiments in terrain classification on LANDSAT imagery by texture analysis, Technical Report TR-383, Computer Science Center, University of Maryland, June 1975.

2. C. R. Dyer, J. Weszka and A. Rosenfeld, Further experiments in terrain classification by texture analysis, Technical Report TR-417, Computer Science Center, University of Maryland, September 1975.

3. C. R. Dyer, J. Weszka and A. Rosenfeld, Detection of "hazy anomalies" in LANDSAT imagery by texture analysis, Technical Report TR-429, Computer Science Center, University of Maryland, December 1975.

4. C. R. Dyer and A. Rosenfeld, Cellular pyramids for image analysis, Technical Report TR-544, Computer Science Center, University of Maryland, May 1977.

5. C. R. Dyer, Cellular pyramids for image analysis, 2, Technical Report TR-596, Computer Science Center, University of Maryland, November 1977.

6. C. R. Dyer and A. Nakamura, Nondeterministic bottom-up pyramid acceptors, Technical Report TR-616, Computer Science Center, University of Maryland, December 1977.

7. C. R. Dyer, Memory-augmented cellular automata for image analysis, Technical Report TR-710, Computer Science Center, University of Maryland, November 1978.

8. C. R. Dyer, Augmented Cellular Automata for Image Analysis, Ph.D. dissertation, Computer Science Department, University of Maryland, College Park, Md., May 1979.

9. B. H. McCormick, E. W. Kent and C. R. Dyer, Highly parallel structures for real-time image processing, Technical Report VRL-13, Integrated Systems Laboratory, College of Engineering, University of Illinois at Chicago, June 1980.

10. C. R. Dyer, A quadtree machine for parallel image processing, Technical Report KSL-51, Knowledge Systems Laboratory, Department of Electrical Engineering and Computer Science, University of Illinois at Chicago, January 1981.

11. C. R. Dyer and R. T. Chin, Model-based industrial part recognition: Systems and algorithms, Computer Sciences Department Technical Report 538, University of Wisconsin, March 1984.

12. M. F. Augusteijn and C. R. Dyer, Model-based shape from contour and point patterns, Computer Sciences Department Technical Report 542, University of Wisconsin, May 1984.

13. S-B. Ho and C. R. Dyer, Medial-axis-based shape smoothing, Computer Sciences Department Technical Report 557, University of Wisconsin, September 1984.

14. B. P. Kjell and C. R. Dyer, Edge separation and orientation texture measures, Computer Sciences Department Technical Report 559, University of Wisconsin, October 1984.

15. C. F. Neveu, C. R. Dyer and R. T. Chin, Object recognition using Hough pyramids, Computer Sciences Department Technical Report 576, University of Wisconsin, January 1985.

16. M. R. Korn and C. R. Dyer, 3-D multiview object representations for model-based object recognition, Computer Sciences Department Technical Report 602, University of Wisconsin, June 1985 (also available as IBM Technical Report RC-11760, T. J. Watson Research Center, Yorktown Heights, NY, March 1986).

17. W. H. Plantinga and C. R. Dyer, An algorithm for constructing the aspect graph, Computer Sciences Department Technical Report 627, University of Wisconsin, December 1985.

18. C. V. Stewart and C. R. Dyer, Convolution algorithms on the pipelined image-processing engine, Computer Sciences Department Technical Report 643, University of Wisconsin, May 1986.

19. C. V. Stewart and C. R. Dyer, A scheduling algorithm for the pipelined image-processing engine, Computer Sciences Department Technical Report 664, University of Wisconsin, September 1986.

20. G. Verghese, S. Mehta, and C. R. Dyer, Image processing algorithms for the pipelined image-processing engine, Computer Sciences Department Technical Report 668, University of Wisconsin, September 1986.

21. C. R. Dyer, Multiscale image understanding, Computer Sciences Department Technical Report 679, University of Wisconsin, December 1986.

22. H. Plantinga and C. R. Dyer, The Asp: A continuous viewer-centered representation for 3D object recognition, Computer Sciences Department Technical Report 682, University of Wisconsin, January 1987.

23. H. Plantinga and C. R. Dyer, The aspect representation, Computer Sciences Department Technical Report 683, University of Wisconsin, January 1987.

24. G. Verghese and C. R. Dyer, NP-Completeness of linearly-connected multiprocessor scheduling, Computer Sciences Department Technical Report 709, University of Wisconsin, August 1987.

25. C. V. Stewart and C. R. Dyer, Local constraint integration in a connectionist model of stereo vision, Computer Sciences Department Technical Report 726, University of Wisconsin, November 1987.

26. H. Plantinga and C. R. Dyer, Construction and display algorithms for the asp, Computer Sciences Department Technical Report 735, University of Wisconsin, December 1987.

27. H. Plantinga and C. R. Dyer, Visibility, occlusion and the aspect graph, Computer Sciences Department Technical Report 736, University of Wisconsin, December 1987.

28. C. V. Stewart and C. R. Dyer, Simulation of a connectionist stereo algorithm on a shared-memory multiprocessor, Computer Sciences Department Technical Report 760, University of Wisconsin, March 1988.

29. C. V. Stewart and C. R. Dyer, The trinocular general support algorithm: A three camera stereo algorithm for overcoming binocular matching errors, Computer Sciences Department Technical Report 768, University of Wisconsin, May 1988.

30. G. Verghese and C. R. Dyer, Real-time, model-based tracking of three-dimensional objects, Computer Sciences Department Technical Report 806, University of Wisconsin, November 1988.

31. H. Plantinga, C. R. Dyer and B. Seales, Real-time hidden-line elimination for a rotating polyhedral scene using the aspect representation, Technical Report 89-3, Computer Science Department, University of Pittsburgh, 1989.

32. M. Allmen and C. R. Dyer, Cyclic motion detection using spatiotemporal surfaces and curves, Computer Sciences Department Technical Report 881, University of Wisconsin, October 1989.

33. W. B. Seales and C. R. Dyer, Using the asp for the interactive viewing of polyhedral scenes, Computer Sciences Department Technical Report 903, University of Wisconsin, December 1989.

34. W. B. Seales and C. R. Dyer, Modeling the rim appearance, Computer Sciences Department Technical Report 931, University of Wisconsin, May 1990.

35. M. Allmen and C. R. Dyer, Computing spatiotemporal surface flow, Computer Sciences Department Technical Report 935, University of Wisconsin, May 1990.

36. K. N. Kutulakos and C. R. Dyer, Using the interference graph for the dynamic ordering of vision processing tasks, Computer Sciences Department Technical Report 977, University of Wisconsin, October 1990.

37. M. Allmen and C. R. Dyer, Long-range spatiotemporal motion understanding using spatiotemporal flow curves, Computer Sciences Department Technical Report 985, University of Wisconsin, December 1990.

38. W. B. Seales and C. R. Dyer, Viewpoint from occluding contour, Computer Sciences Department Technical Report 990, University of Wisconsin, December 1990.

39. W. L. Hibbard and C. R. Dyer, Automated display of geometric data types, Computer Sciences Department Technical Report 1015, University of Wisconsin, March 1991.

40. K. N. Kutulakos and C. R. Dyer, Recovering shape by purposive viewpoint adjustment, Computer Sciences Department Technical Report 1035, University of Wisconsin, August 1991.

41. K. N. Kutulakos, C. R. Dyer and V. J. Lumelsky, Vision-guided exploration: A step toward general motion planning in three dimensions, Computer Sciences Department Technical Report 1111, University of Wisconsin, September 1992.

42. K. N. Kutulakos, V. J. Lumelsky and C. R. Dyer, Object exploration by purposive, dynamic viewpoint adjustment, Computer Sciences Department Technical Report 1124, University of Wisconsin, November 1992.

43. M. Allmen and C. R. Dyer, Computing spatiotemporal relations for dynamic perceptual organization, Computer Sciences Department Technical Report 1130, University of Wisconsin, December 1992.

44. K. N. Kutulakos and C. R. Dyer, Global surface reconstruction by purposive control of observer motion, Computer Sciences Department Technical Report 1141, University of Wisconsin, April 1993.

45. S. M. Seitz and C. R. Dyer, Affine invariant detection of periodic motion, Computer Sciences Department Technical Report 1225, University of Wisconsin, June 1994.

46. S. M. Seitz and C. R. Dyer, Scene appearance representation by perspective view synthesis, Computer Sciences Department Technical Report 1298, University of Wisconsin, May 1996.

47. R. A. Manning and C. R. Dyer, Dynamic view morphing, Computer Sciences Department Technical Report 1387, University of Wisconsin, September 1998.

48. R. A. Manning and C. R. Dyer, Affine calibration from dynamic scenes, Computer Sciences Department Technical Report 1417, University of Wisconsin, August 2000.

49. R. A. Manning and C. R. Dyer, Environment map morphing, Computer Sciences Department Technical Report 1423, University of Wisconsin, January 2001.

50. G-D. Guo and C. R. Dyer, Markov information propagation for texture synthesis, Computer Sciences Department Technical Report 1446, University of Wisconsin, September 2002.

51. G-D. Guo and C. R. Dyer, An evaluation of Bayes and large margin classifiers for face expression recognition, Computer Sciences Department Technical Report 1447, University of Wisconsin, September 2002.

52. R. A. Manning and C. R. Dyer, Research on self calibration without minimization, Computer Sciences Department Technical Report 1490, University of Wisconsin, February 2003.

53. R. A. Manning and C. R. Dyer, On screw-transform manifolds, Computer Sciences Department Technical Report 1482, University of Wisconsin, April 2003.

54. S. Fan, C. R. Dyer and L. Hubbard, Quantification and correction of iris color, Computer Sciences Department Technical Report 1495, University of Wisconsin, December 2003.

55. G-D. Guo and C. R. Dyer, Recognizing faces from head rotation, Computer Sciences Department Technical Report 1501, University of Wisconsin, May 2004.

56. G-D. Guo and C. R. Dyer, Spatial resolution enhancement of video using still images, Computer Sciences Department Technical Report 1502, University of Wisconsin, October 2004.

57. G-D. Guo and C. R. Dyer, Face cyclographs for recognition, Computer Sciences Department Technical Report 1555, University of Wisconsin, March 2006.