
Bibliography

- [Agrawal-03] M. Agrawal and L. Davis. Camera calibration using spheres: A dual-space approach. Research Report CAR-TR-984, Center for Automation Research, University of Maryland, 2003.
- [Aloimonos-90] J. Y. Aloimonos. Perspective approximations. *Image and Vision Computing*, 8(3):177–192, August 1990.
- [Anandan-02] P. Anandan and M. Irani. Factorization with uncertainty. *International Journal of Computer Vision*, 49(2/3):101–116, 2002.
- [Armstrong-94] M. Armstrong, A. Zisserman, and P. Beardsley. Euclidean reconstruction from uncalibrated images. In *Proc. British Machine Vision Conference*, pages 509–518, 1994.
- [Armstrong-96a] M. Armstrong. *Self-Calibration from Image Sequences*. PhD thesis, University of Oxford, England, 1996.
- [Armstrong-96b] M. Armstrong, A. Zisserman, and R. Hartley. Self-calibration from image triplets. In *Proc. European Conference on Computer Vision*, LNCS 1064/5, pages 3–16. Springer-Verlag, 1996.
- [Astrom-98] K. Åström and A. Heyden. Continuous time matching constraints for image streams. *International Journal of Computer Vision*, 28(1):85–96, 1998.
- [Avidan-98] S. Avidan and A. Shashua. Threading fundamental matrices. In *Proc. 5th European Conference on Computer Vision, Freiburg, Germany*, pages 124–140, 1998.
- [Baillard-99] C. Baillard and A. Zisserman. Automatic reconstruction of piecewise planar models from multiple views. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 559–565, June 1999.
- [Barrett-92] E. B. Barrett, M. H. Brill, N. N. Haag, and P. M. Payton. Invariant linear methods in photogrammetry and model-matching. In J. L. Mundy and A. Zisserman, editors, *Geometric invariance in computer vision*. MIT Press, Cambridge, 1992.
- [Bascle-98] B. Bascle and A. Blake. Separability of pose and expression in facial tracing and animation. In *Proc. International Conference on Computer Vision*, pages 323–328, 1998.
- [Basri-99] R. Basri and D. Jacobs. Projective alignment with regions. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, pages 1158–1164, 1999.
- [Bathe-76] K-J. Bathe and E. Wilson. *Numerical methods in finite element analysis*. Prentice Hall, 1976.
- [Beardsley-92] P. A. Beardsley, D. Sinclair, and A. Zisserman. Ego-motion from six points. Insight meeting, Catholic University Leuven, February 1992.
- [Beardsley-94] P. A. Beardsley, A. Zisserman, and D. W. Murray. Navigation using affine structure and motion. In *Proc. European Conference on Computer Vision*, LNCS 800/801, pages 85–96. Springer-Verlag, 1994.
- [Beardsley-95a] P. A. Beardsley and A. Zisserman. Affine calibration of mobile vehicles. In *Europe-China workshop on Geometrical Modelling and Invariants for Computer Vision*, pages 214–221. Xidan University Press, Xi'an, China, 1995.
- [Beardsley-95b] P. A. Beardsley, I. D. Reid, A. Zisserman, and D. W. Murray. Active visual navigation using non-metric structure. In *Proc. International Conference on Computer Vision*, pages 58–64, 1995.

- [Beardsley-96] P. A. Beardsley, P. H. S. Torr, and A. Zisserman. 3D model acquisition from extended image sequences. In *Proc. 4th European Conference on Computer Vision, LNCS 1065, Cambridge*, pages 683–695, 1996.
- [Blake-87] A. Blake and A. Zisserman. *Visual Reconstruction*. MIT Press, Cambridge, USA, August 1987.
- [Boehm-94] W. Boehm and H. Prautzsch. *Geometric Concepts for Geometric Design*. A. K. Peters, 1994.
- [Bookstein-79] F. Bookstein. Fitting conic sections to scattered data. *Computer Graphics and Image Processing*, 9:56–71, 1979.
- [Bougnoux-98] S. Bougnoux. From Projective to Euclidean space under any practical situation, a criticism of self-calibration. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 790–796, January 1998.
- [Boult-91] I. E. Boult and L. Gottesfeld Brown. Factorisation-based segmentation of motions. In *Proc. IEEE Workshop on Visual Motion*, 1991.
- [Brand-01] M. Brand. Morphable 3d models from video. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages II: 456–463, 2001.
- [Brown-71] D. C. Brown. Close-range camera calibration. *Photogrammetric Engineering*, 37(8):855–866, 1971.
- [Buchanan-88] T. Buchanan. The twisted cubic and camera calibration. *Computer Vision, Graphics and Image Processing*, 42:130–132, 1988.
- [Buchanan-92] T. Buchanan. Critical sets for 3D reconstruction using lines. In *Proc. European Conference on Computer Vision, LNCS 588*, pages 730–738. Springer-Verlag, 1992.
- [Canny-86] J. F. Canny. A computational approach to edge detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 8(6):679–698, 1986.
- [Capel-98] D. Capel and A. Zisserman. Automated mosaicing with super-resolution zoom. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition, Santa Barbara*, pages 885–891, June 1998.
- [Caprile-90] B. Caprile and V. Torre. Using vanishing points for camera calibration. *International Journal of Computer Vision*, 4:127–140, 1990.
- [Carlsson-93] S. Carlsson. Multiple image invariance using the double algebra. In *Applications of Invariance in Computer Vision*, volume SLN Comp. Science vol 825, pages 335–350, 1993.
- [Carlsson-94] S. Carlsson. Multiple image invariance using the double algebra. In J. Mundy, A. Zisserman, and D. Forsyth, editors, *Applications of Invariance in Computer Vision LNCS 825*. Springer-Verlag, 1994.
- [Carlsson-95] S. Carlsson. Duality of reconstruction and positioning from projective views. In *IEEE Workshop on Representation of Visual Scenes, Boston*, 1995.
- [Carlsson-98] S. Carlsson and D. Weinshall. Dual computation of projective shape and camera positions from multiple images. *International Journal of Computer Vision*, 27(3):227–241, 1998.
- [Christy-96] S. Christy and R. Horaud. Euclidean shape and motion from multiple perspective views by affine iteration. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 18(11):1098–1104, November 1996.
- [Chum-03] O. Chum, T. Werner, and T. Pajdla. On joint orientation of epipoles. Research Report CTU–CMP–2003–10, Center for Machine Perception, K333 FEE Czech Technical University, Prague, Czech Republic, April 2003.
- [Cipolla-99] R. Cipolla, T. Drummond, and D. Robertson. Camera calibration from vanishing points in images of architectural scenes. In *Proc. British Machine Vision Conference*, September 1999.
- [Collins-93] R. T. Collins and J. R. Beveridge. Matching perspective views of coplanar structures using projective unwarping and similarity matching. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 1993.
- [Costeira-98] J.P. Costeira and T. Kanade. A multibody factorization method for independently moving objects. *International Journal of Computer Vision*, 29(3):159–179, 1998.
- [Criminisi-98] A. Criminisi, I. Reid, and A. Zisserman. Duality, rigidity and planar parallax. In *Proc.*

- European Conference on Computer Vision*, pages 846–861. Springer-Verlag, June 1998.
- [Criminisi-99a] A. Criminisi, I. Reid, and A. Zisserman. Single view metrology. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, pages 434–442, September 1999.
- [Criminisi-99b] A. Criminisi, I. Reid, and A. Zisserman. A plane measuring device. *Image and Vision Computing*, 17(8):625–634, 1999.
- [Criminisi-00] A. Criminisi, I. Reid, and A. Zisserman. Single view metrology. *International Journal of Computer Vision*, 40(2):123–148, November 2000.
- [Criminisi-01] A. Criminisi. *Accurate Visual Metrology from Single and Multiple Uncalibrated Images*. Distinguished Dissertation Series. Springer-Verlag London Ltd., July 2001. ISBN: 1852334681.
- [Cross-98] G. Cross and A. Zisserman. Quadric surface reconstruction from dual-space geometry. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 25–31, January 1998.
- [Cross-99] G. Cross, A. W. Fitzgibbon, and A. Zisserman. Parallax geometry of smooth surfaces in multiple views. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, pages 323–329, September 1999.
- [Csurka-97] G. Csurka, C. Zeller, Z. Zhang, and O. D. Faugeras. Characterizing the uncertainty of the fundamental matrix. *Computer Vision and Image Understanding*, 68(1):18–36, October 1997.
- [Csurka-98] G. Csurka, D. Demirdjian, A. Ruf, and R. Horaud. Closed-form solutions for the euclidean calibration of a stereo rig. In *Proc. 5th European Conference on Computer Vision, Freiburg, Germany*, pages 426–442, June 1998.
- [DeAgapito-98] L. de Agapito, E. Hayman, and I. Reid. Self-calibration of a rotating camera with varying intrinsic parameters. In *Proc. 9th British Machine Vision Conference, Southampton*, 1998.
- [DeAgapito-99] L. de Agapito, R. I. Hartley, and E. Hayman. Linear self-calibration of a rotating and zooming camera. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 15–21, 1999.
- [Dementhon-95] D. Dementhon and L. Davis. Model based pose in 25 lines of code. *International Journal of Computer Vision*, 15(1/2):123–141, 1995.
- [Devernay-95] F. Devernay and O. D. Faugeras. Automatic calibration and removal of distortion from scenes of structured environments. In *SPIE*, volume 2567, San Diego, CA, July 1995.
- [Devernay-96] F. Devernay and O. D. Faugeras. From projective to euclidean reconstruction. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 264–269, 1996.
- [Faugeras-90] O. D. Faugeras and S. J. Maybank. Motion from point matches: Multiplicity of solutions. *International Journal of Computer Vision*, 4:225–246, 1990.
- [Faugeras-92a] O. D. Faugeras, Q. Luong, and S. Maybank. Camera self-calibration: Theory and experiments. In *Proc. European Conference on Computer Vision*, LNCS 588, pages 321–334. Springer-Verlag, 1992.
- [Faugeras-92b] O. D. Faugeras. What can be seen in three dimensions with an uncalibrated stereo rig? In *Proc. European Conference on Computer Vision*, LNCS 588, pages 563–578. Springer-Verlag, 1992.
- [Faugeras-93] O. D. Faugeras. *Three-Dimensional Computer Vision: a Geometric Viewpoint*. MIT Press, 1993.
- [Faugeras-94] O. D. Faugeras and L. Robert. What can two images tell us about a third one. In J. O. Eckland, editor, *Proc. 3rd European Conference on Computer Vision, Stockholm*, pages 485–492. Springer-Verlag, 1994.
- [Faugeras-95a] O. D. Faugeras and B. Mourrain. On the geometry and algebra of point and line correspondences between N images. In *Proc. International Conference on Computer Vision*, pages 951–962, 1995.
- [Faugeras-95b] O. D. Faugeras. Stratification of three-dimensional vision: projective, affine, and metric representation. *Journal of the Optical Society of America*, A12:465–484, 1995.
- [Faugeras-95c] O. D. Faugeras, S. Laveau, L. Robert, G. Csurka, and C. Zeller. 3-D reconstruction of urban scenes from sequences of images. Technical report, INRIA, 1995.
- [Faugeras-97] O. D. Faugeras and T. Papadopoulos. Grassmann-Cayley algebra for modeling systems of cameras and the algebraic equations of the manifold of trifocal tensors. Technical Report 3225, INRIA, Sophia-Antipolis, France, 1997.

- [Faugeras-98] O. D. Faugeras, L. Quan, and P. Sturm. Self-calibration of a 1D projective camera and its application to the self-calibration of a 2D projective camera. In *Proc. European Conference on Computer Vision*, pages 36–52, 1998.
- [Fischler-81] M. A. Fischler and R. C. Bolles. Random sample consensus: A paradigm for model fitting with applications to image analysis and automated cartography. *Comm. Assoc. Comp. Mach.*, 24(6):381–395, 1981.
- [Fitzgibbon-98a] A. W. Fitzgibbon and A. Zisserman. Automatic camera recovery for closed or open image sequences. In *Proc. European Conference on Computer Vision*, pages 311–326. Springer-Verlag, June 1998.
- [Fitzgibbon-98b] A. W. Fitzgibbon, G. Cross, and A. Zisserman. Automatic 3D model construction for turn-table sequences. In R. Koch and L. Van Gool, editors, *3D Structure from Multiple Images of Large-Scale Environments, LNCS 1506*, pages 155–170. Springer-Verlag, June 1998.
- [Fitzgibbon-99] A. W. Fitzgibbon, M. Pilu, and R. B. Fisher. Direct least-squares fitting of ellipses. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 21(5):476–480, May 1999.
- [Gear-98] C. W. Gear. Multibody grouping from motion images. *International Journal of Computer Vision*, 29(2):133–150, 1998.
- [Giblin-87] P. Giblin and R. Weiss. Reconstruction of surfaces from profiles. In *Proc. 1st International Conference on Computer Vision, London*, pages 136–144, London, 1987.
- [Gill-78] P. E. Gill and W. Murray. Algorithms for the solution of the nonlinear least-squares problem. *SIAM J Num Anal*, 15(5):977–992, 1978.
- [Golub-89] G. H. Golub and C. F. Van Loan. *Matrix Computations*. The Johns Hopkins University Press, Baltimore, MD, second edition, 1989.
- [Gracie-68] G. Gracie. Analytical photogrammetry applied to single terrestrial photograph mensuration. In *XIth International Conference of Photogrammetry, Lausanne, Switzerland*, July 1968.
- [Gupta-97] R. Gupta and R. I. Hartley. Linear pushbroom cameras. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, September 1997.
- [Haralick-91] R. M. Haralick, C. Lee, K. Ottenberg, and M. Nölle. Analysis and solutions of the three point perspective pose estimation problem. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 592–598, 1991.
- [Harris-88] C. J. Harris and M. Stephens. A combined corner and edge detector. In *Proc. 4th Alvey Vision Conference, Manchester*, pages 147–151, 1988.
- [Hartley-92a] R. I. Hartley. Estimation of relative camera positions for uncalibrated cameras. In *Proc. European Conference on Computer Vision, LNCS 588*, pages 579–587. Springer-Verlag, 1992.
- [Hartley-92b] R. I. Hartley. Invariants of points seen in multiple images. GE internal report, GE CRD, Schenectady, NY 12301, USA, May 1992.
- [Hartley-92c] R. I. Hartley, R. Gupta, and T. Chang. Stereo from uncalibrated cameras. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 1992.
- [Hartley-94a] R. I. Hartley. Self-calibration from multiple views with a rotating camera. In *Proc. European Conference on Computer Vision, LNCS 800/801*, pages 471–478. Springer-Verlag, 1994.
- [Hartley-94b] R. I. Hartley. Euclidean reconstruction from uncalibrated views. In J. Mundy, A. Zisserman, and D. Forsyth, editors, *Applications of Invariance in Computer Vision, LNCS 825*, pages 237–256. Springer-Verlag, 1994.
- [Hartley-94c] R. I. Hartley. Projective reconstruction and invariants from multiple images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 16:1036–1041, October 1994.
- [Hartley-94d] R. I. Hartley. Projective reconstruction from line correspondence. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 1994.
- [Hartley-95a] R. I. Hartley. Multilinear relationships between coordinates of corresponding image points and lines. In *Proceedings of the Sophus Lie Symposium, Nordfjordeid, Norway* (not published yet), 1995.
- [Hartley-95b] R. I. Hartley. A linear method for reconstruction from lines and points. In *Proc. International Conference on Computer Vision*, pages 882–887, 1995.
- [Hartley-97a] R. I. Hartley. Lines and points in three views and the trifocal tensor. *International Journal*

- of *Computer Vision*, 22(2):125–140, 1997.
- [Hartley-97b] R. I. Hartley and P. Sturm. Triangulation. *Computer Vision and Image Understanding*, 68(2):146–157, November 1997.
- [Hartley-97c] R. I. Hartley. In defense of the eight-point algorithm. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 19(6):580 – 593, October 1997.
- [Hartley-97d] R. I. Hartley. Kruppa’s equations derived from the fundamental matrix. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 19(2):133–135, 1997.
- [Hartley-97e] R. I. Hartley and T. Saxena. The cubic rational polynomial camera model. In *Proc. DARPA Image Understanding Workshop*, pages 649 – 653, 1997.
- [Hartley-98a] R. I. Hartley. Chirality. *International Journal of Computer Vision*, 26(1):41–61, 1998.
- [Hartley-98b] R. I. Hartley. Dualizing scene reconstruction algorithms. In R. Koch and L. Van Gool, editors, *3D Structure from Multiple Images of Large-Scale Environments, LNCS 1506*, pages 14–31. Springer-Verlag, June 1998.
- [Hartley-98c] R. I. Hartley. Computation of the quadrifocal tensor. In *Proc. European Conference on Computer Vision, LNCS 1406*, pages 20–35. Springer-Verlag, 1998.
- [Hartley-98d] R. I. Hartley. Minimizing algebraic error in geometric estimation problems. In *Proc. International Conference on Computer Vision*, pages 469–476, 1998.
- [Hartley-99] R. Hartley, L. de Agapito, E. Hayman, and I. Reid. Camera calibration and the search for infinity. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, pages 510–517, September 1999.
- [Hartley-00a] R. I. Hartley and N. Y. Dano. Reconstruction from six-point sequences. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages II–480 – II–486, 2000.
- [Hartley-00b] R. I. Hartley. Ambiguous configurations for 3-view projective reconstruction. In *Proc. 6th European Conference on Computer Vision, Part I, LNCS 1842, Dublin, Ireland*, pages 922–935, 2000.
- [Hartley-02a] R. Hartley and F. Kahl. Critical curves and surfaces for euclidean reconstruction. In *Proc. 7th European Conference on Computer Vision, Part II, LNCS 2351, Copenhagen, Denmark*, pages 447–462, 2002.
- [Hartley-02b] R. Hartley and R. Kaucic. Sensitivity of calibration to principal point position. In *Proc. 7th European Conference on Computer Vision, Copenhagen, Denmark*, volume 2, pages 433–446. Springer-Verlag, 2002.
- [Hartley-03] R. Hartley and F. Kahl. A critical configuration for reconstruction from rectilinear motion. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 2003.
- [Hayman-03] E. Hayman, T. Thórhallsson, and D.W. Murray. Tracking while zooming using affine transfer and multifocal tensors. *International Journal of Computer Vision*, 51(1):37–62, January 2003.
- [Heyden-95a] A. Heyden. Reconstruction from image sequences by means of relative depths. In E. Grimson, editor, *Proc. 5th International Conference on Computer Vision, Boston, Cambridge, MA*, June 1995.
- [Heyden-95b] A. Heyden. *Geometry and Algebra of Multiple Projective Transformations*. PhD thesis, Department of Mathematics, Lund University, Sweden, December 1995.
- [Heyden-97a] A. Heyden. Projective structure and motion from image sequences using subspace methods. In *Scandinavian Conference on Image Analysis, Lappeenraanta*, pages 963–968, 1997.
- [Heyden-97b] A. Heyden and K. Åström. Euclidean reconstruction from image sequences with varying and unknown focal length and principal point. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 1997.
- [Heyden-97c] A. Heyden. Reconstruction from multiple images by means of using relative depths. *International Journal of Computer Vision*, 24(2):155–161, 1997.
- [Heyden-98] A. Heyden. Algebraic varieties in multiple view geometry. In *Proc. 5th European Conference on Computer Vision, Freiburg, Germany*, pages 3–19, 1998.
- [Hilbert-56] D. Hilbert and S. Cohn-Vossen. *Geometry and the Imagination*. Chelsea, NY, 1956.
- [Horaud-98] R. Horaud and G. Csurka. Self-calibration and Euclidean reconstruction using motions of a

- stereo rig. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 96–103, January 1998.
- [Horn-90] B. K. P. Horn. Relative orientation. *International Journal of Computer Vision*, 4:59–78, 1990.
- [Horn-91] B. K. P. Horn. Relative orientation revisited. *Journal of the Optical Society of America*, 8(10):1630–1638, 1991.
- [Horry-97] Y. Horry, K. Anjyo, and K. Arai. Tour into the picture: Using a spidery mesh interface to make animation from a single image. In *Proceedings of the ACM SIGGRAPH Conference on Computer Graphics*, pages 225–232, 1997.
- [Huang-89] T. S. Huang and O. D. Faugeras. Some properties of the E-matrix in two-view motion estimation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 11:1310 – 1312, 1989.
- [Huber-81] P. J. Huber. *Robust Statistics*. John Wiley and Sons, 1981.
- [Huynh-03] D.Q. Huynh, R. Hartley, and A. Heyden. Outlier correction of image sequences for the affine camera. In *Proc. 9th International Conference on Computer Vision, Vancouver, France*, 2003.
- [Irani-98] M. Irani, P. Anandan, and D. Weinshall. From reference frames to reference planes: Multi-view parallax geometry and applications. In *Proc. European Conference on Computer Vision*, 1998.
- [Irani-99] M. Irani. Multi-frame optical flow estimation using subspace constraints. In *Proc. International Conference on Computer Vision*, 1999.
- [Irani-00] Michal Irani and P. Anandan. Factorization with uncertainty. In *Proc. 6th European Conference on Computer Vision, Part I, LNCS 1842, Dublin, Ireland*, pages 539 – 553, 2000.
- [Jiang-02] G. Jiang, H. Tsui, L. Quan, and A. Zisserman. Single axis geometry by fitting conics. In *Proc. 7th European Conference on Computer Vision, Copenhagen, Denmark*, volume 1, pages 537–550. Springer-Verlag, 2002.
- [Kahl-98a] F. Kahl and A. Heyden. Structure and motion from points, lines and conics with affine cameras. In *Proc. 5th European Conference on Computer Vision, Freiburg, Germany*, pages 327–341, 1998.
- [Kahl-98b] F. Kahl and A. Heyden. Using conic correspondences in two images to estimate epipolar geometry. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 761–766, 1998.
- [Kahl-99] F. Kahl. Critical motions and ambiguous euclidean reconstructions in auto-calibration. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, pages 469–475, 1999.
- [Kahl-01a] F. Kahl, R. Hartley, and K. Åström. Critical configurations for n -view projective reconstruction. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages II–158 – II–163, 2001.
- [Kahl-01b] F. Kahl. *Geometry and Critical Configurations of Multiple Views*. PhD thesis, Lund Institute of Technology, 2001.
- [Kanatani-92] K. Kanatani. *Geometric computation for machine vision*. Oxford University Press, Oxford, 1992.
- [Kanatani-94] K. Kanatani. Statistical bias of conic fitting and renormalization. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 16(3):320–326, 1994.
- [Kanatani-96] K. Kanatani. *Statistical Optimization for Geometric Computation: Theory and Practice*. Elsevier Science, Amsterdam, 1996.
- [Kaucic-01] R. Kaucic, R. I. Hartley, and N. Y. Dano. Plane-based projective reconstruction. In *Proc. 8th International Conference on Computer Vision, Vancouver, Canada*, pages I–420–427, 2001.
- [Klein-39] F. Klein. *Elementary Mathematics from an Advanced Standpoint*. Macmillan, New York, 1939.
- [Knight-03] J. Knight, A. Zisserman, and I. Reid. Linear auto-calibration for ground plane motion. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, June 2003.
- [Koenderink-84] J. J. Koenderink. What does the occluding contour tell us about solid shape? *Perception*, 13:321–330, 1984.
- [Koenderink-90] J. Koenderink. *Solid Shape*. MIT Press, 1990.
- [Koenderink-91] J. J. Koenderink and A. J. van Doorn. Affine structure from motion. *Journal of the Optical Society of America*, 8(2):377–385, 1991.

- [Krames-42] J. Krames. Über die bei der Hauptaufgabe der Luftphotogrammetrie auftretenden “gefährlichen” Flächen. *Bildmessung und Luftbildwesen (Beilage zur Allg. Vermessungs-Nachr.)*, 17, Heft 1/2:1–18, 1942.
- [Kriegman-98] D. J. Kriegman and P. Belhumeur. What shadows reveal about object structure. In *Proc. European Conference on Computer Vision*, pages 399–414, 1998.
- [Laveau-96a] S. Laveau. *Géométrie d’un système de N caméras. Théorie, estimation et applications*. PhD thesis, INRIA, 1996.
- [Laveau-96b] S. Laveau and O. D. Faugeras. Oriented projective geometry in computer vision. In *Proc. 4th European Conference on Computer Vision, LNCS 1065, Cambridge*, pages 147–156, Springer-Verlag, 1996. Buxton B. and Cipolla R.
- [Liebowitz-98] D. Liebowitz and A. Zisserman. Metric rectification for perspective images of planes. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 482–488, June 1998.
- [Liebowitz-99a] D. Liebowitz, A. Criminisi, and A. Zisserman. Creating architectural models from images. In *Proc. EuroGraphics*, volume 18, pages 39–50, September 1999.
- [Liebowitz-99b] D. Liebowitz and A. Zisserman. Combining scene and auto-calibration constraints. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, September 1999.
- [Liebowitz-01] D. Liebowitz. *Camera Calibration and Reconstruction of Geometry from Images*. PhD thesis, University of Oxford, Dept. Engineering Science, June 2001. D.Phil. thesis.
- [LonguetHiggins-81] H. C. Longuet-Higgins. A computer algorithm for reconstructing a scene from two projections. *Nature*, 293:133–135, September 1981.
- [Luong-92] Q. Luong. *Matrice Fondamentale et Autocalibration en Vision par Ordinateur*. PhD thesis, Université de Paris-Sud, France, 1992.
- [Luong-94] Q. T. Luong and T. Viéville. Canonic representations for the geometries of multiple projective views. In *Proc. 3rd European Conference on Computer Vision, Stockholm*, pages 589–599, May 1994.
- [Luong-96] Q. T. Luong and T. Viéville. Canonical representations for the geometries of multiple projective views. *Computer Vision and Image Understanding*, 64(2):193–229, September 1996.
- [Lutkepohl-96] H. Lutkepohl. *Handbook of Matrices*. Wiley, ISBN 0471970158, 1996.
- [Ma-99] Y. Ma, S. Soatto, J. Kosecka, and S. Sastry. Euclidean reconstruction and reprojection up to subgroups. In *Proc. 7th International Conference on Computer Vision, Kerkyra, Greece*, pages 773–780, 1999.
- [Mathematica-92] S. Wolfram. *Mathematica A System for Doing Mathematics by Computer second edition*. Addison-Wesley, 1992.
- [Maybank-90] S. J. Maybank. The projective geometry of ambiguous surfaces. *Philosophical Transactions of the Royal Society of London, SERIES A*, A 332:1–47, 1990.
- [Maybank-93] S. J. Maybank. *Theory of reconstruction from image motion*. Springer-Verlag, Berlin, 1993.
- [Maybank-98] S. J. Maybank and A. Shashua. Ambiguity in reconstruction from images of six points. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 703–708, 1998.
- [McLauchlan-00] P. F. McLauchlan. Gauge independence in optimization algorithms for 3D vision. In W. Triggs, A. Zisserman, and R. Szeliski, editors, *Vision Algorithms: Theory and Practice*, volume 1883 of LNCS, pages 183–199. Springer, 2000.
- [Mohr-92] R. Mohr. Projective geometry and computer vision. In C. H. Chen, L. F. Pau, and P. S. P. Wang, editors, *Handbook of Pattern Recognition and Computer Vision*. World Scientific, 1992.
- [Mohr-93] R. Mohr, F. Veillon, and L. Quan. Relative 3D reconstruction using multiple uncalibrated images. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 543–548, 1993.
- [Moons-94] T. Moons, L. Van Gool, M. Van Diest, and E. Pauwels. Affine reconstruction from perspective image pairs. In J. Mundy, A. Zisserman, and D. Forsyth, editors, *Applications of Invariance in Computer Vision*, LNCS 825. Springer-Verlag, 1994.
- [Muehlich-98] M. Mühlich and R. Mester. The role of total least squares in motion analysis. In *Proc. 5th European Conference on Computer Vision, Freiburg, Germany*, pages 305–321. Springer-Verlag,

- 1998.
- [Mundy-92] J. Mundy and A. Zisserman. *Geometric Invariance in Computer Vision*. MIT Press, 1992.
- [Newsam-96] G. Newsam, D. Q. Huynh, M. Brooks, and H. P. Pan. Recovering unknown focal lengths in self-calibration: An essentially linear algorithm and degenerate configurations. In *Int. Arch. Photogrammetry & Remote Sensing*, volume XXXI-B3, pages 575–80, Vienna, 1996.
- [Niem-94] W. Niem and R. Buschmann. Automatic modelling of 3D natural objects from multiple views. In *European Workshop on Combined Real and Synthetic Image Processing for Broadcast and Video Production, Hamburg, Germany*, 1994.
- [Nister-00] D. Nister. Reconstruction from uncalibrated sequences with a hierarchy of trifocal tensors. In *Proc. European Conference on Computer Vision*, 2000.
- [Oskarsson-02] M. Oskarsson, A. Zisserman, and K. Åström. Minimal projective reconstruction for combinations of points and lines in three views. In *Proc. British Machine Vision Conference*, pages 62–72, 2002.
- [Poelman-94] C. Poelman and T. Kanade. A paraperspective factorization method for shape and motion recovery. In *Proc. 3rd European Conference on Computer Vision, Stockholm*, volume 2, pages 97–108, 1994.
- [Pollefeys-96] M. Pollefeys, L. Van Gool, and A. Oosterlinck. The modulus constraint: a new constraint for self-calibration. In *Proc. International Conference on Pattern Recognition*, pages 31–42, 1996.
- [Pollefeys-98] M. Pollefeys, R. Koch, and L. Van Gool. Self calibration and metric reconstruction in spite of varying and unknown internal camera parameters. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 90–96, 1998.
- [Pollefeys-99a] M. Pollefeys, R. Koch, and L. Van Gool. A simple and efficient rectification method for general motion. In *Proc. International Conference on Computer Vision*, pages 496–501, 1999.
- [Pollefeys-99b] M. Pollefeys. *Self-calibration and metric 3D reconstruction from uncalibrated image sequences*. PhD thesis, ESAT-PSI, K.U.Leuven, 1999.
- [Pollefeys-02] M. Pollefeys, F. Verbiest, and L. J. Van Gool. Surviving dominant planes in uncalibrated structure and motion recovery. In *ECCV (2)*, pages 837–851, 2002.
- [Ponce-94] J. Ponce, D. H. Marimont, and T. A. Cass. Analytical methods for uncalibrated stereo and motion measurement. In *Proc. 3rd European Conference on Computer Vision, Stockholm*, volume 1, pages 463–470, 1994.
- [Porrill-91] J. Porrill and S. B. Pollard. Curve matching and stereo calibration. *Image and Vision Computing*, 9(1):45–50, 1991.
- [Pratt-87] V. Pratt. Direct least-squares fitting of algebraic surfaces. *Computer Graphics*, 21(4):145–151, 1987.
- [Press-88] W. Press, B. Flannery, S. Teukolsky, and W. Vetterling. *Numerical Recipes in C*. Cambridge University Press, 1988.
- [Pritchett-98] P. Pritchett and A. Zisserman. Wide baseline stereo matching. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 754–760, January 1998.
- [Proesmans-98] M. Proesmans, T. Tuytelaars, and L. J. Van Gool. Monocular image measurements. Technical Report Improofs-M12T21/1/P, K.U.Leuven, 1998.
- [Quan-94] L. Quan. Invariants of 6 points from 3 uncalibrated images. In J. O. Eckland, editor, *Proc. 3rd European Conference on Computer Vision, Stockholm*, pages 459–469. Springer-Verlag, 1994.
- [Quan-97a] L. Quan and T. Kanade. Affine structure from line correspondences with uncalibrated affine cameras. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 19(8):834–845, August 1997.
- [Quan-97b] L. Quan. Uncalibrated 1D projective camera and 3D affine reconstruction of lines. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 60–65, 1997.
- [Quan-98] L. Quan and Z. Lan. Linear $n \geq 4$ -point pose determination. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 778–783, 1998.
- [Reid-96] I. D. Reid and D. W. Murray. Active tracking of foveated feature clusters using affine structure. *International Journal of Computer Vision*, 18(1):41–60, 1996.
- [Rinner-72] K. Rinner and R. Burkhardt. Photogrammetrie. In *Handbuch der Vermessungskunde*, volume

- Band III a/3. Jordan, Eggert, Kneissel, Stuttgart: J.B. Metzlersche Verlagsbuchhandlung, 1972.
- [Robert-93] L. Robert and O. D. Faugeras. Relative 3D positioning and 3D convex hull computation from a weakly calibrated stereo pair. In *Proc. 4th International Conference on Computer Vision, Berlin*, pages 540–544, 1993.
- [Rother-01] C. Rother and S. Carlsson. Linear multi view reconstruction and camera recovery. In *Proc. 8th International Conference on Computer Vision, Vancouver, Canada*, pages 1–42–49, 2001.
- [Rother-03] C. Rother. *Multi-View Reconstruction and Camera Recovery using a Real or Virtual Reference Plane*. PhD thesis, Computational Vision and Active Perception Laboratory, Kungl Tekniska Högskolan, 2003.
- [Rousseeuw-87] P. J. Rousseeuw. *Robust Regression and Outlier Detection*. Wiley, New York, 1987.
- [Sampson-82] P. D. Sampson. Fitting conic sections to ‘very scattered’ data: An iterative refinement of the Bookstein algorithm. *Computer Vision, Graphics, and Image Processing*, 18:97–108, 1982.
- [Sawhney-98] H. S. Sawhney, S. Hsu, and R. Kumar. Robust video mosaicing through topology inference and local to global alignment. In *Proc. European Conference on Computer Vision*, pages 103–119. Springer-Verlag, 1998.
- [Schaffalitzky-99] F. Schaffalitzky and A. Zisserman. Geometric grouping of repeated elements within images. In D.A. Forsyth, J.L. Mundy, V. Di Gesu, and R. Cipolla, editors, *Shape, Contour and Grouping in Computer Vision*, LNCS 1681, pages 165–181. Springer-Verlag, 1999.
- [Schaffalitzky-00a] F. Schaffalitzky. Direct solution of modulus constraints. In *Proceedings of the Indian Conference on Computer Vision, Graphics and Image Processing, Bangalore*, pages 314–321, 2000.
- [Schaffalitzky-00b] F. Schaffalitzky and A. Zisserman. Planar grouping for automatic detection of vanishing lines and points. *Image and Vision Computing*, 18:647–658, 2000.
- [Schaffalitzky-00c] F. Schaffalitzky, A. Zisserman, R. I. Hartley, and P. H. S. Torr. A six point solution for structure and motion. In *Proc. European Conference on Computer Vision*, pages 632–648. Springer-Verlag, June 2000.
- [Schmid-97] C. Schmid and A. Zisserman. Automatic line matching across views. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 666–671, 1997.
- [Schmid-98] C. Schmid and A. Zisserman. The geometry and matching of curves in multiple views. In *Proc. European Conference on Computer Vision*, pages 394–409. Springer-Verlag, June 1998.
- [Se-00] S. Se. Zebra-crossing detection for the partially sighted. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 211–217, 2000.
- [Semple-79] J. G. Semple and G. T. Kneebone. *Algebraic Projective Geometry*. Oxford University Press, 1979.
- [Shapiro-95] L. S. Shapiro, A. Zisserman, and M. Brady. 3D motion recovery via affine epipolar geometry. *International Journal of Computer Vision*, 16(2):147–182, 1995.
- [Shashua-94] A. Shashua. Trilinearity in visual recognition by alignment. In *Proc. 3rd European Conference on Computer Vision, Stockholm*, volume 1, pages 479–484, May 1994.
- [Shashua-95a] A. Shashua. Algebraic functions for recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 17(8):779–789, August 1995.
- [Shashua-95b] A. Shashua and M. Werman. On the trilinear tensor of three perspective views and its underlying geometry. In *Proc. 5th International Conference on Computer Vision, Boston*, 1995.
- [Shashua-96] A. Shashua and S. J. Maybank. Degenerate N-point configurations of three views: Do critical surfaces exist? Technical Report TR 96-19, Hebrew University, Computer Science, November 1996.
- [Shashua-97] A. Shashua and S. Toelg. The quadric reference surface: Theory and applications. *International Journal of Computer Vision*, 23(2):185–198, 1997.
- [Shimshoni-99] I. Shimshoni, R. Basri, and E. Rivlin. A geometric interpretation of weak-perspective motion. Technical report, Technion, 1999.
- [Sinclair-92] D. A. Sinclair. *Experiments in Motion and Correspondence*. PhD thesis, University of Oxford, 1992.
- [Slama-80] C. Slama. *Manual of Photogrammetry*. American Society of Photogrammetry, Falls Church, VA, USA, 4th edition, 1980.

- [Spetsakis-91] M. E. Spetsakis and J. Aloimonos. A multi-frame approach to visual motion perception. *International Journal of Computer Vision*, 16(3):245–255, 1991.
- [Springer-64] C. E. Springer. *Geometry and Analysis of Projective Spaces*. Freeman, 1964.
- [Stein-99] G. Stein and A. Shashua. On degeneracy of linear reconstruction from three views: Linear line complex and applications. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 21(3):244–251, 1999.
- [Stolfi-91] J. Stolfi. *Oriented Projective Geometry*. Academic Press, 1991.
- [Strecha-02] C. Strecha and L. Van Gool. PDE-based multi-view depth estimation. *1st Int. Symp. of 3D Data Processing Visualization and Transmission*, pages 416–425, 2002.
- [Sturm-96] P. Sturm and W. Triggs. A factorization based algorithm for multi-image projective structure and motion. In *Proc. 4th European Conference on Computer Vision, Cambridge*, pages 709–720, 1996.
- [Sturm-97a] P. Sturm. Critical motion sequences for monocular self-calibration and uncalibrated Euclidean reconstruction. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition, Puerto Rico*, pages 1100–1105, June 1997.
- [Sturm-97b] P. Sturm. *Vision 3D non calibrée: Contributions à la reconstruction projective et étude des mouvements critiques pour l'auto calibrage*. PhD thesis, INRIA Rhône-Alpes, 1997.
- [Sturm-99a] P. Sturm and S. J. Maybank. A method for interactive 3D reconstruction of piecewise planar objects from single images. In *Proc. 10th British Machine Vision Conference, Nottingham*, 1999.
- [Sturm-99b] P. Sturm. Critical motion sequences for the self-calibration of cameras and stereo systems with variable focal length. In *Proc. 10th British Machine Vision Conference, Nottingham*, pages 63–72, 1999.
- [Sturm-99c] P. Sturm and S. Maybank. On plane based camera calibration: A general algorithm, singularities, applications. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 432–437, June 1999.
- [Sturm-01] P. Sturm. On focal length calibration from two views. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 145–150, 2001.
- [Sutherland-63] I. E. Sutherland. Sketchpad: A man-machine graphical communications system. Technical Report 296, MIT Lincoln Laboratories, 1963. Also published by Garland Publishing, New York, 1980.
- [Szeliski-96] R. Szeliski and S. B. Kang. Shape ambiguities in structure from motion. In B. Buxton and Cipolla R., editors, *Proc. 4th European Conference on Computer Vision, LNCS 1064, Cambridge*, pages 709–721. Springer-Verlag, 1996.
- [Szeliski-97] R. Szeliski and S. Heung-Yeung. Creating full view panoramic image mosaics and environment maps. In *Proceedings of the ACM SIGGRAPH Conference on Computer Graphics*, 1997.
- [Taubin-91] G. Taubin. Estimation of planar curves, surfaces, and nonplanar space curves defined by implicit equations with applications to edge and range image segmentation. *PAMI*, 13(11):1115–1138, 1991.
- [Thorhallsson-99] T. Thorhallsson and D.W. Murray. The tensors of three affine views. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 1999.
- [Tomasi-92] C. Tomasi and T. Kanade. Shape and motion from image streams under orthography: A factorization approach. *International Journal of Computer Vision*, 9(2):137–154, November 1992.
- [Tordoff-01] B. Tordoff and D.W. Murray. Reactive zoom control while tracking using an affine camera. In *Proc. British Machine Vision Conference*, volume 1, pages 53–62, 2001.
- [Torr-93] P. H. S. Torr and D. W. Murray. Outlier detection and motion segmentation. In *Proc SPIE Sensor Fusion VI*, pages 432–443, Boston, September 1993.
- [Torr-95a] P. H. S. Torr, A. Zisserman, and D. W. Murray. Motion clustering using the trilinear constraint over three views. In R. Mohr and C. Wu, editors, *Europe-China Workshop on Geometrical Modelling and Invariants for Computer Vision*, pages 118–125. Xidan University Press, 1995.
- [Torr-95b] P. H. S. Torr. *Motion segmentation and outlier detection*. PhD thesis, Dept. of Engineering Science, University of Oxford, 1995.
- [Torr-97] P. H. S. Torr and A. Zisserman. Robust parameterization and computation of the trifocal tensor.

- Image and Vision Computing*, 15:591–605, 1997.
- [Torr-98] P. H. S. Torr and A. Zisserman. Robust computation and parameterization of multiple view relations. In *Proc. 6th International Conference on Computer Vision, Bombay, India*, pages 727–732, January 1998.
- [Torr-99] P. H. S. Torr, A. W. Fitzgibbon, and A. Zisserman. The problem of degeneracy in structure and motion recovery from uncalibrated image sequences. *International Journal of Computer Vision*, 32(1):27–44, August 1999.
- [Torresani-01] L. Torresani, D. Yang, G. Alexander, and C. Bregler. Tracking and modelling non-rigid objects with rank constraints. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages I: 493–500, 2001.
- [Triggs-95] W. Triggs. The geometry of projective reconstruction i: Matching constraints and the joint image. In *Proc. International Conference on Computer Vision*, pages 338–343, 1995.
- [Triggs-96] W. Triggs. Factorization methods for projective structure and motion. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 845–851, 1996.
- [Triggs-97] W. Triggs. Auto-calibration and the absolute quadric. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, pages 609–614, 1997.
- [Triggs-98] W. Triggs. Autocalibration from planar scenes. In *Proc. 5th European Conference on Computer Vision, Freiburg, Germany*, 1998.
- [Triggs-99a] W. Triggs. Camera pose and calibration from 4 or 5 known 3D points. In *Proc. International Conference on Computer Vision*, pages 278–284, 1999.
- [Triggs-99b] W. Triggs. Differential matching constraints. In *Proc. International Conference on Computer Vision*, pages 370–376, 1999.
- [Triggs-00a] W. Triggs, P. F. McLauchlan, R. I. Hartley, and A. Fitzgibbon. Bundle adjustment for structure from motion. In *Vision Algorithms: Theory and Practice*. Springer-Verlag, 2000.
- [Triggs-00b] W. Triggs. Plane + parallax, tensors and factorization. In *Proc. European Conference on Computer Vision*, pages 522–538, 2000.
- [Tsai-84] R. Y. Tsai and T. S. Huang. The perspective view of three points. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 6:13–27, 1984.
- [VanGool-98] L. Van Gool, M. Proesmans, and A. Zisserman. Planar homologies as a basis for grouping and recognition. *Image and Vision Computing*, 16:21–26, January 1998.
- [Vieville-93] T. Viéville and Q. Luong. Motion of points and lines in the uncalibrated case. Technical Report 2054, I.N.R.I.A., 1993.
- [Vieville-95] T. Viéville and D. Lingrand. Using singular displacements for uncalibrated monocular vision systems. Technical Report 2678, I.N.R.I.A., 1995.
- [VonSanden-08] H. von Sanden. *Die Bestimmung der Kernpunkte in der Photogrammetrie*. PhD thesis, Univ. Göttingen, December 1908.
- [Weinshall-95] D. Weinshall, M. Werman, and A. Shashua. Shape descriptors: Bilinear, trilinear and quadrilinear relations for multi-point geometry and linear projective reconstruction algorithms. In *IEEE Workshop on Representation of Visual Scenes, Boston*, pages 58–65, 1995.
- [Weng-88] J. Weng, N. Ahuja, and T. S. Huang. Closed-form solution and maximum likelihood : A robust approach to motion and structure estimation. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, 1988.
- [Weng-89] J. Weng, T. S. Huang, and N. Ahuja. Motion and structure from two perspective views: algorithms, error analysis and error estimation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 11(5):451–476, 1989.
- [Werner-01] T. Werner and T. Pajdla. Oriented matching constraints. In T. Cootes and C. Taylor, editors, *Proc. British Machine Vision Conference*, pages 441–450, London, UK, September 2001. British Machine Vision Association.
- [Werner-03] T. Werner. A constraint on five points in two images. In *Proc. IEEE Conference on Computer Vision and Pattern Recognition*, June 2003.
- [Wolfe-91] W. J. Wolfe, D. Mathis, C. Weber Sklair, and M. Magee. The perspective view of three points. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 13(1):66–73, January 1991.

- [Xu-96] G. Xu and Z. Zhang. *Epipolar Geometry in Stereo, Motion and Object Recognition*. Kluwer Academic Publishers, 1996.
- [Zeller-96] C. Zeller. *Projective, Affine and Euclidean Calibration in Computer Vision and the Application of Three Dimensional Perception*. PhD thesis, RobotVis Group, INRIA Sophia-Antipolis, 1996.
- [Zhang-95] Z. Zhang, R. Deriche, O. D. Faugeras, and Q. Luong. A robust technique for matching two uncalibrated images through the recovery of the unknown epipolar geometry. *Artificial Intelligence*, 78:87–119, 1995.
- [Zhang-98] Z. Zhang. Determining the epipolar geometry and its uncertainty – a review. *International Journal of Computer Vision*, 27(2):161–195, March 1998.
- [Zhang-00] Z. Zhang. A flexible new technique for camera calibration. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 22(11):1330–1334, November 2000.
- [Zisserman-92] A. Zisserman. Notes on geometric invariance in vision. Tutorial, British Machine Vision Conference, 1992.
- [Zisserman-94] A. Zisserman and S. Maybank. A case against epipolar geometry. In J. Mundy, A. Zisserman, and D. Forsyth, editors, *Applications of Invariance in Computer Vision LNCS 825*. Springer-Verlag, 1994.
- [Zisserman-95a] A. Zisserman, J. Mundy, D. Forsyth, J. Liu, N. Pillow, C. Rothwell, and S. Utcke. Class-based grouping in perspective images. In *Proc. International Conference on Computer Vision*, 1995.
- [Zisserman-95b] A. Zisserman, P. Beardsley, and I. Reid. Metric calibration of a stereo rig. In *IEEE Workshop on Representation of Visual Scenes, Boston*, pages 93–100, 1995.
- [Zisserman-96] A. Zisserman. A users guide to the trifocal tensor. Dept. of Engineering Science, University of Oxford, 1996.
- [Zisserman-98] A. Zisserman, D. Liebowitz, and M. Armstrong. Resolving ambiguities in auto-calibration. *Philosophical Transactions of the Royal Society of London, SERIES A*, 356(1740):1193–1211, 1998.