

Ian David Reid

Professor of Computer Science
School of Computer Science
University of Adelaide
North Terrace Campus
South Australia, 5005

Education

- D.Phil. Oxon, 1991, Recognizing parameterized objects from range data
- BSc (U. of Western Australia), 1987, 1st class Hons, GPA 4.0

Employment

School of Computer Science, University of Adelaide

- Professor of Computer Science, (Sept 12 – present)

Dept of Engineering Science, University of Oxford

- Professor of Engineering, (Oct 00 – Sept 12, Reader Oct 06 – Sept 10, Professor Oct 10 --)
- EPSRC Advanced Research Fellow (Oct 97 – Sep 00)
- Departmental Lecturer in Information Engineering in association with Exeter College (Oct 98 – Sep 99)
- Research Assistant, RA2 (Oct 96 – Sep 97)
- Glasstone Research Fellow in Science (Oct 93 – Sep 96)
- Research Assistant, RA1A (Nov 91 – Sep 93)

Exeter College, University of Oxford

- Acting Rector (Head of House), Trinity Term 2008
- Sub-rector (Dean), Apr 2005 – Sep 2008
- Computing Fellow, Oct 2002 – Sept 2012
- Tutorial Fellow, Oct 2000 – Sept 2012

Oxford Brookes University

- Visiting lecturer in Intelligent Systems, Vision Module (95 – 98)

Awards / Distinctions

- Dennis Moore Oration, Australian Computer Society WA Branch, 2013
- Winner, Freescale Sense the World video competition (with V Prisacariu), 2010
- Best Industrial Paper (with Alonso Patron, Marcin Marsalek and Andrew Zisserman), British Machine Vision Conference 2010
- Best Student Poster (with Ben Benfold), British Machine Vision Conference 2009
- Best Paper Award (with Oliver Woodford, Phil Torr and Andrew Fitzgibbon), IEEE Computer Vision and Pattern Recognition 2008
- Paper “MonoSLAM: Real-time Single Camera SLAM” (with A Davison, O Stasse and N Molton) among top-cited of all Computer Science papers of 2007 (*source* <http://citeseerx.ist.psu.edu/stats/articles?y=2007>)
- Gledden Senior Visiting Fellowship, University of Western Australia, 2005
- Best Science Paper (with Philip Tresadern), British Machine Vision Conference, 2003
- EPSRC Advanced Research Fellowship, 1997
- Violette and Samuel Glasstone Fellowship, 1993
- Rhodes Scholarship (Western Australia), 1987/88
- ACS WA (top student) and IBM WA (best honours thesis) prizes in Computer Science, University of Western Australia, 1987

Professional Activities

- **Institutional review**
 - International panel of experts, 2009 review of INRIA (Institute National de Recherche en Informatique et Automatique) robotics programme.
 - International review panel for NICTA Computer Vision, 2012
- **Keynote/Plenary lectures:**
 - Digital Image Computing: Techniques and Applications, 2012
 - International Workshop on Gaze Sensing and Interactions, 2010
 - IEEE Workshop on Visual Surveillance, 2009
 - Digital Image Computing: Techniques and Applications, 2007
 - Visualisation, Imaging and Image Processing, 2007
 - International Symposium on 3D Analysis of Human Movement, 2002
- **Invited lectures:**
 - Nanyang Technological University, 2011
 - CPNI Group of Experts in Vision Systems, 2011
 - University of Lincoln, 2010
 - British Machine Vision Association, 2010
 - University College, London, 2010
 - ETH Zurich, 2009
 - University of Western Australia, 2009
 - University of Zaragoza, 2008
 - General Electric, 2005
 - Gillette Ltd, 2003
 - University of Western Australia, 2004
 - University of Caceres, 2000
 - Politecnica de Madrid Facultad de Informatica, 1999
 - Edinburgh University Dept of Artificial Intelligence, 1999
 - University of Adelaide Dept of Computer Science, 1999
 - British Machine Vision Association, Photogrammetry Society, 1996
 - Jet Propulsion Labs, Pasadena, 1994
 - Toshiba, 1993
 - University of Osaka, 1993
 - Fujitsu, 1993
 - International Conference on Intelligent Robots and Systems, Yokohama, 1993
- **Outreach:**
 - Need to fill this in...
- **Editorial Board:**
 - IEEE Transactions on Pattern Analysis and Machine Intelligence, (2010-)
 - Image and Vision Computing Journal (2008-)
 - IPSN Transactions on Computer Vision and Applications (2008-2012)
 - Electronic Letters in Computer Vision and Image Analysis (2007-2011)
- **Conference Program Chair:**
 - Asian Conference on Computer Vision (2014)
- **Conference Area Chair/Associate Editor:**
 - International Conference on Computer Vision (2013)
 - Asian Conference on Computer Vision *Awards Committee* (2012)
 - European Conference on Computer Vision (2002, 2008)
 - Asian Conference on Computer Vision (2004, 2009)
 - Int'l Conference on Robotics and Automation (2008, 2009, 2011, 2012)
 - International Conference on Pattern Recognition (2012)
 - British Machine Vision Conference (2000, 2005, 2012)
 - Digital Image Computing: Techniques and Applications (2012)

- **Conference/Workshop Programme Committee:**
 - IEEE International Workshop on Socially Intelligent Surveillance and Monitoring (2011)
 - Workshop on Gaze Sensing and Interaction (2010)
 - Visual Surveillance workshop (2010)
 - THEMIS Workshop (2008, 2009)
 - Iberian Conf on Pattern Recognition and Image Analysis (2003, 2004)
 - Int'l Workshop on Vision Algorithms (1999)
- **Conference Programme Committee/Review Panel:**
 - Computer Vision and Pattern Recognition (2003, 2004, 2005, 2008, 2009, 2010, 2011, 2012, 2013),
 - European Conf. on Computer Vision (2004, 2010),
 - International Conf on Computer Vision (2003, 2005, 2009)
 - International Conference on Pattern Recognition (2000, 2004)
- **Journal review:**
 - International Journal of Computer Vision
 - IEEE Transactions on Pattern Analysis and Machine Intelligence
 - Computer Vision and Image Understanding
 - Image and Vision Computing
 - Machine Vision and Applications
- **Consultancy:**
 - Luizhou Lanhai Technology (2012)
 - Formula One Management Ltd (2011)
 - Oxford Risk (2010-2013)
 - LightningFish Games (2010)
 - Unilever Ltd (2007/8)
 - Qinetiq Ltd (2006/7)
 - Tracab AB (2006/7)
 - Prosurgics Ltd (2006)
 - GE Global Research (2005)
 - Gillette (2002)
- **Executive Committee** , British Machine Vision Association, 2008-2012
- **Member**, Institute Electrical and Electronic Engineers
- **Chairman and organiser**, Robotics Research Group Seminar programme (1997–99)

Undergraduate Teaching

- **Lectures:**
 - 3rd yr, Artificial Intelligence
 - 4th yr, Computer Vision
 - 1st yr, Introduction to Computing, 2 Core lectures + 20 hours of labs, 00–03, 06–09
 - 3rd yr Applied Estimation, 8 Information Engineering lectures + 2 hours of labs, 99–03
 - 3rd yr Computer Architecture, **new course**, 4 Core lectures on interfacing devices to computers, 01–03
 - 2nd yr Vector Algebra and Calculus, 8 Core lectures in mathematics, 03, 06–09
 - 3rd yr Computational Geometry, 4 Information Engineering lectures, 03
 - 4th yr Computer Vision, 4 Information Engineering lectures, 03, 05–present
 - 2nd yr C/C++ coursework module, **new course**, 5 mini-lectures + 30 hours labs, 99–09
 - 3rd yr Software Engineering, **new course**, 4 Information Engineering Lectures, 08–09
 - 3rd yr Structured Programming, **new course**, 4 Information Engineering Lectures, 10–present
 - 3rd yr Object Oriented Programming, **new course**, 4 Information Engineering Lectures + 5 hours labs, 11–present
- **Tutorials (Engineering):**

I was the senior Engineering tutor at Exeter College from 2000-2012 and until 2003 I was the the only official fellow in Engineering Science, where we aimed to take 6 students per annum. I taught the Engineering Mathematics, Electrical/Electronic, and Computing and Control topics to all years. My load was 6-7 tutorial contact hours per week.

Postgraduate supervision

15 complete D.Phil., 1999-2012
 2 complete MSc, 2002-2012
 Currently supervising 3 D.Phil. candidates.

Examination

Examiner for Engineering (and joint schools) Final Honour School, 2003-2005
Chairman of Engineering and Computer Science Examiners, 2004
D.Phil. internal examiner, 21 theses, 1995-2012
PhD external examiner, 18 theses, 1997-2012

Grants

Notes:

- Total grants \$7.4 million

		Title	Dates	\$K	
1	ARC Discovery Project		Jan 13 – Dec 15	346	Chief Investigator
2	ARC LIEF		Jan 13 – Dec 15	220	Chief Investigator , with Prof A. van den Hengel et al.

		Title	Dates	£K	
1	EU Framework 7	REWIRE: Rehabilitative Wayout In Responsive home Environments	Oct 11 – Sept 14	284	Principal Investigator
2	Oxford Risk	Application of behavioural science to visual surveillance (part II)	July 10 – June 12	157	Principal Investigator
3	EPSRC EP/H050795/1	Long-term Higher-order Visual Mapping	June 10 – May 14	780	Principal Investigator
4	Oxford Risk	Application of behavioural science to visual surveillance (part I)	Oct 08 – Sep 10	20	Principal Investigator
5	EPSRC EP/C007220/1	Automatic generation of content for 3D displays	Jun 06 – Jan 09	161	Principal Investigator
6	EU Framework 6	HERMES: Human Expressive Representations of Motion and their evaluation in Sequences	Apr 06 – Aug 09	278	Principal Investigator. STREP collaboration with Universitat Autònoma de Barcelona (Spain), Universitat Karlsruhe (Germany), Aalborg University (Denmark), ETH Zurich (Switzerland), European Space Agency (France/Netherlands), Answare Technologies (Spain), total budget €2M
7	Royal Society International Joint	Pushing the theoretical and practical limits of	Jan 06 – Mar 08	12	Principal Investigator. With Prof. Juan Domingo Tardos, University of

	Project	advanced SLAM systems			Zaragoza, Spain
8	EPSRC Platform Grant EP/D037077/1	Platform Grant in Computer Vision	Oct 05 – Sep 10	420	Joint principal investigator with Prof. D. Murray, Dr P. Newman and Prof. A. Zisserman
9	EPSRC GR/T24685/04	Real-Time Camera Localisation in Real Environments	Jan 05 – Dec 07	247	Principal Investigator
10	Servowatch UK, Ltd	A Stabilised Search and Rescue Camera System”	Jan 05 – Dec 08	63	Principal Investigator
11	EPSRC GR/R89080/01	Real-Time Ego-Motion Estimation for a Single Camera'	Jan 03 – Mar 04	60	Principal Investigator
12	EPSRC GR/R59588/01	Incorporating constraints into a framework for estimating vision parameters with high precision	Aug 01 – Sep 01	7	Co-investigator with D.W. Murray
13	EU Framework 5	EVENTS: Computer Vision Enables Non-constrained Transmission of Scenarios	Oct 00 – Jan 04	220	Principal Investigator. FP5 collaboration with Eptron SA (Spain), INRIA-Grenoble (France), Siemens (Germany), Via Digital (Spain), budget £1M
14	EPSRC/Link, GR/M15262	Control of 3D performance animation by unencumbered actors	Sep 98 – Mar 01	169	Principal Investigator from Sep 99
15	Acciones Integradas (British Council)	Analysis of image sequences based on optical flow	Apr 98 – Mar 00	6	Principal Investigator. With Dr Luis Baumela, Politecnica de Madrid, Spain
16	EPSRC GR/A00270/01	Active Visual Understanding of Dynamic Scenes via Deliberate Robotic Interaction	Oct 97 - Sep 00	110	Principal Investigator. Advanced Research Fellowship
17	Technology Foresight grant FCA 472 A/95	Automated measurement and visualisation in retailing	Jun 97 – May 00	250	Co-Investigator with A. Zisserman

Publications

Notes:

- Publications 1991-2013 have attracted 7488 citations (*source Google Scholar, 13/6/2013*)
- H-index 43 (*source Google Scholar, 13/6/2013*)

Journal articles (internationally peer reviewed)

1. A. Patron, M. Marszalek, I. D. Reid, A. Zisserman, “Structured learning of human interactions in TV shows”, IEEE Transactions on Pattern Analysis and Machine Intelligence, vol 34, no 12, 2012.
2. Nicola Bellotto, Ben Benfold, Hanno Harland, Hans-Hellmut Nagel, Nicola Pirlo, Ian Reid, Eric Sommerlade, Chuan Zhao, “Cognitive visual tracking and camera control”, Computer Vision and Image Understanding, vol 116, no 3, 2012.
3. V. Prisacariu and I. Reid, “PWP3D: Real-time Segmentation and Tracking of 3D Objects”, accepted for International Journal of Computer Vision, vol 98, no 3, 2012
4. V. Prisacariu and I. Reid, “3D hand tracking for human-computer interaction”, accepted for Image and Vision Computing, vol 30, no 3, 2012

5. B. Williams, G. Klein and I. Reid, "Automatic Relocalisation and Loop Closing for Real-Time Monocular SLAM", *IEEE Transactions on Pattern analysis and Machine Intelligence*, vol 33, no 9, 2011
6. N. Robertson and I. Reid, "Automatic Reasoning about Causal Events in Surveillance Video", *EURASIP Journal of Image and Video Processing*, Article ID 530325, 2011
7. C. Mei, G. Sibley, M. Cummins, P. Newman and I. Reid, "RSLAM: A System for Large-Scale Mapping in Constant-Time using Stereo", *Int. Journal of Computer Vision (special issue on BMVC 2009)*, vol 94, no 2, 2010
8. G. Sibley, C. Mei, I. Reid and P. Newman, "Vast Scale Outdoor Navigation Using Adaptive Relative Bundle Adjustment", vol. 29, no. 8, *Int. Journal of Robotics Research*, 2010
9. O. Woodford, P. Torr, I. Reid and A. Fitzgibbon, "Global Stereo Reconstruction under Second Order Smoothness Priors", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol 31, no 12, 2009
10. K. Connor and I. Reid, "Multiview segmentation and tracking of dynamic occluding layers", *Journal of Image and Vision Computing*, vol. 28, no. 6, June 2009.
11. G. Deacon, M. Street, J. Holdback, J. Taylor, M. Pearce, D. Maiwand, A. Harwood and I. Reid, "The Pathfinder Image-Guided Surgical Robot", *Journal of Engineering in Medicine*, vol 224, no 5, 2010.
12. Brian Williams, Mark Cummins, Jose Neira, Paul Newman, Ian Reid and Juan Tardos "A comparison of loop closing techniques in monocular SLAM", in *Robotics and Autonomous Systems*, vol 57, no. 12, December 2009
13. Paul Newman, Gabe Sibley, Mike Smith, Mark Cummins, Alastair Harrison, Christopher Mei, Ingmar Posner, Robbie Shade, Derik Schroter, Liz Murphy, Winston Churchill, David Cole and Ian Reid, "Navigating, Recognising and Describing Urban Spaces With Vision and Laser", *International Journal of Robotics Research*, vol 28, no 11-12, 2009
14. P. A. Tresadern and I. D. Reid, "Video synchronization from human motion using rank constraints" *Computer Vision and Image Understanding* vol 113, no 8, August 2009
15. Ali Shahrokni, Oliver Woodford and Ian Reid, Temporally-coherent Novel Video Synthesis Using Texture-based Priors, in press, *IPSJ Transactions on Computer Vision and Applications (special issue on ACCV 2007)*, 2009
16. P. Tresadern and I. Reid, "Camera Calibration from Human Motion", *Journal of Image and Vision Computing*, vol. 26, no. 6, June 2008.
17. A. Davison, I. Reid, N. Molton and O. Stasse, "MonoSLAM: Real-time Single Camera SLAM", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 29, no. 6, pp 1052-1067, 2007.
18. N. Robertson and I. Reid, "A general method for human activity recognition in video", *Journal of Computer Vision and Image Understanding*, Vol. 104, No. 2 pp. 232-248, 2006.
19. J. Knight and I. Reid, "Automated alignment of robotic pan-tilt camera units using vision", *Int'l Journal Computer Vision*, Vol. 68, No. 3 pp. 219-237, 2006.
20. T. Rodriguez, I. Reid and R. Horaud, "Image Interpolation for Virtual Sports Scenarios", *Machine Vision and Applications Journal*. Vol. 16, No. 4. Sept. 2005, pp 236-245.
21. J. Deutscher and I. D. Reid, "Articulated body motion capture by stochastic search", *Int'l Journal of Computer Vision*, 61(2), 2005.
22. L. Agapito, E. Hayman and I. D Reid, "Self-calibration of rotating and zooming cameras", *Int'l Journal of Computer Vision*, 45(2), pp107-127, 2001.
23. R. L. Thompson, I. D. Reid, L. A. Munoz and D. W. Murray, "Providing synthetic views for teleoperation using visual pose tracking in multiple cameras", *IEEE Transactions on Systems, Man and Cybernetics*, vol 31(1), pp 43--54, 2001.
24. A. Criminisi, I. D. Reid and A. Zisserman, "Single view metrology", *International Journal of Computer Vision*, vol. 40(2), pp 123--148, 2000.
25. A. Criminisi, I. D. Reid and A. Zisserman, "A plane measuring device", *Journal of Image and Vision Computing*, vol. 17, pp 625--634, 1999.
26. D. W. Murray, I. D. Reid and A. J. Davison, "Steering without representation using active fixation", *Perception*, vol. 26, 1998.
27. S.M. Fairley, I.D. Reid and D.W. Murray, "Transfer of Fixation using Affine Structure: Extending the Analysis to Stereo", *International Journal of Computer Vision*, vol. 29, no. 1, 1998.
28. K. J. Bradshaw, I. D. Reid and D. W. Murray, "The active recovery of 3D motion trajectories and their use in prediction", *IEEE Pattern Analysis and Machine Intelligence*, vol. 19, no. 3, 1997.
29. P. F. McLauchlan, S. M. Fairley, I. D. Reid and D. W. Murray, "The Pipe-Group Architecture for Real-Time Active Vision", *Journal of Real-Time Imaging*, vol. 3, 1997.
30. I. D. Reid and D. W. Murray, "Active tracking of foveated feature clusters using affine structure", *International Journal of Computer Vision*, vol. 18, no. 1, 1996.

31. I. D. Reid, "Projective calibration of a vehicle-mounted triangulation range finder", in *Journal of Image and Vision Computing*, vol. 14, no. 9, 1996.
32. I. D. Reid and P. A. Beardsley, "Self-alignment of a binocular robot", in *Journal of Image and Vision Computing*, vol. 14, no. 8, 1996.
33. I. D. Reid and J. M. Brady, "Recognition of object classes from range data", *Artificial Intelligence Journal*, vol. 78, no.s 1-2, pp. 289-326, (Special Issue on Computer Vision), October 1995.
34. D. W. Murray, P. F. McLauchlan, K. J. Bradshaw, I. D. Reid and P. M. Sharkey, "Driving saccade to pursuit using image motion", *International Journal of Computer Vision*, Vol 16, No 3, 1995.
35. F. Chenavier, I. D. Reid and J. M. Brady, "Recognition of Parameterized Objects from 3D data: a Parallel Implementation", *Journal of Image and Vision Computing*, Vol 12, No 9, 1994.
36. P. M. Sharkey, D. W. Murray, S. Vandeveld, I. D. Reid and P. F. McLauchlan, "A Modular Head/Eye Platform for Real-time Reactive Vision", *Mechatronics Journal*, Vol 3, No 4, 1993.
37. K. J. Bradshaw, P. F. McLauchlan, I. D. Reid and D. W. Murray "Saccade and Pursuit on an Active Head/Eye Platform", *Journal of Image and Vision Computing*, Vol 12, No 3, 1994.
38. I. D. Reid and J. M. Brady, "Model-Based Recognition and Range Imaging for a Guided Vehicle", *Journal of Image and Vision Computing*, Vol 10, No 3, April 1992.

Conference articles (internationally peer reviewed)

39. V. Prisacariu and I. Reid, "Simultaneous monocular 2D segmentation, 3D pose recovery and 3D reconstruction", in *proc. Asian Conf. on Computer Vision*, 2012
40. Yuzuko Utsumi, Eric Sommerlade, Nicola Bellotto and Ian Reid, "Cognitive Visual Tracking and Camera Control", in *proc. International Conf on Robotics and Automation*, 2012
41. Henry Carillo, Ian Reid and Jose A. Castellanos, "On the comparison of uncertainty criteria for active SLAM", in *proc. International Conf on Robotics and Automation*, 2012
42. Y. C. Ren, V. Prisacariu and I. Reid, "Regressing Local to Global Shape Properties for Online Segmentation and Tracking", *British Machine Vision Conference*, 2011.
43. B. Benfold and I. D. Reid, "Unsupervised Learning of a Scene-Specific Coarse Gaze Estimator", accepted for *IEEE International Conference on Computer Vision*, 2011
44. A. Flint, D. W. Murray and I. D. Reid, "Manhattan Scene Understanding Using Monocular, Stereo, and 3D Features", accepted for *IEEE International Conference on Computer Vision*, 2011
45. V. Prisacariu and I. D. Reid, "Shared Shape Spaces", accepted for *IEEE International Conference on Computer Vision*, 2011
46. B. Benfold and I. D. Reid, "Stable Multi-Target Tracking in Real-Time Surveillance Video", in *proc. IEEE Computer Vision and Pattern Recognition*, 2011
47. V. Prisacariu and I. D. Reid, "Nonlinear Shape Manifolds as Shape Priors in Level Set Segmentation and Tracking", in *proc. IEEE Computer Vision and Pattern Recognition*, 2011
48. C. Mei, E. Sommerlade, G. Sibley, P. Newman and I. D. Reid, "Simplifying Video Surveillance Analysis using Real-Time Visual SLAM", in *proc. International Conf on Robotics and Automation*, 2011
49. E. Sommerlade, B. Benfold and I D Reid, "Gaze Directed Camera Control for Face Image Acquisition", in *proc. International Conf on Robotics and Automation*, 2011
50. V. Prisacariu and I. D. Reid, "Robust 3D Hand Tracking for Human Computer Interaction", in *proc. IEEE Face and Gesture*, 2011.
51. A Flint, C Mei, D W Murray and I D Reid, "A Dynamic Programming Approach to Reconstructing Building Interiors", in *proc. European Conference on Computer Vision*, 2010.
52. A. Patron, M. Marszalek, A. Zisserman and I. Reid, "High Five: Recognising Human Interactions in TV shows", in *proc. British Machine Vision Conference (BMVC)*, 2010 **[Best Industrial Paper]**
53. C Zhao and I Reid, "Mean-Shift Visual Tracking with NP-Windows Density Estimates", in *proc. British Machine Vision Conference (BMVC)*, 2010.
54. V. Prisacariu, R. Timofte, K. Zimmermann, I. Reid and L. Van Gool, "Integrating Object Detection with 3D Tracking Towards a Better Driver Assistance System", in *proc. Intl Conference on Pattern Recognition (ICPR)*, 2010
55. C. Bibby, I. Reid, "Tracking Multiple Objects using Pixel-Wise Posteriors", in *proc. IEEE CVPR 2010*
56. A. Flint, C. Mei, D. W. Murray and I. Reid, "Growing semantically meaningful models for visual SLAM", in *proc. IEEE CVPR 2010*
57. B. Williams and I. Reid, "On Combining Visual SLAM and Visual Odometry", in *proc. IEEE ICRA 2010*

58. C. Bibby and I Reid, "A Hybrid SLAM Representation for Dynamic Marine Environments", in proc. IEEE ICRA 2010
59. E. Sommerlade and I. Reid, "Probabilistic Surveillance with Multiple Active Cameras", in proc. IEEE ICRA 2010
60. G. Sibley, C. Mei, M. Cummins, I. Reid, P. Newman, "Planes, Trains and Automobiles -- Autonomy for the Modern Robot", in proc. IEEE ICRA 2010
61. C. Mei, G. Sibley, M. Cummins, P. Newman and I. Reid, "A Constant Time Efficient Stereo SLAM System", in proc. 20th British Machine Vision Conference, 2009
62. B. Benfold and I. Reid, "Guiding Visual Surveillance by Tracking Human Attention", in proc. 20th British Machine Vision Conference, 2009 **[Best Student Poster Award]**
63. G. Sibley, C. Mei, I. Reid and P. Newman, "Adaptive Relative Bundle Adjustment", in proc. Robotics: Science and Systems Conference, June 2009
64. N. Bellotto, E. Sommerlade, B. Benfold, C. Bibby, I. Reid, D. Roth, C. Fernandez, L. Van Gool and J. Gonzalez, "A Distributed Camera System for Multi-Resolution Surveillance", in proc. 3rd ACM/IEEE Int. Conf. on Distributed Smart Cameras (ICDSC), 2009
65. C. Zhao, A. Knight and I. Reid, "Target tracking with mean-shift and affine transfer", in proc. Int' Conf on Pattern Recognition, Dec 2008.
66. C. Bibby and I. Reid, "Robust real-time visual tracking using pixel-wise posteriors", in proc. European Conf, on Computer Vision, Oct 2008.
67. B. Williams, M. Cummins, J. Neira, P. Newman, I. Reid, and J. Tardos, "An image-to-map loop closing method for monocular SLAM", in proc. International Conference on Intelligent Robots and Systems, Sep 2008
68. Eric Sommerlade and Ian Reid, "Influence of zoom selection on a Kalman Filter", in proc. International Conference on Intelligent Robots and Systems, Sep 2008.
69. Michael Breitenstein, Eric Sommerlade, Bastian Leibe, Luc Van Gool and Ian Reid, "Probabilistic parameter selectioun for learning scene structure from video", in proc. British Machine Vision Conference, Sep 2008.
70. Ben Benfold and Ian Reid, "Colour Invariant Head Pose Classification in Low Resolution Video", in proc. British Machine Vision Conference, Sep 2008.
71. A. Shahrokni, C. Mei, P. Torr and I. Reid, "From Visual Query to Visual Portrayal", in proc. British Machine Vision Conference, Sep 2008.
72. O. J. Woodford, P. H. S. Torr, I. D. Reid, and A. W. Fitzgibbon, "Global stereo reconstruction under second-order smoothness priors", in proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2008 **[Best Paper Award]**
73. Eric Sommerlade and Ian Reid, "Information theoretic active scene exploration", in proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2008.
74. C. Mei and I. D. Reid, "Modeling and gerenating complex motion blur for real-time tracking", in proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), June 2008.
75. A. Shahrokni, O. Woodford and I. Reid, "Temporal Priors for Novel Video Synthesis", in proc. Asian Conferene on Computer Vision, Nov 2007.
76. B. Williams, G. Klein and I. Reid, "Real-time SLAM Relocalisation", in proc. International Conference on Computer Vision, Oct 2007.
77. A. Patron and I. Reid, "A Probabilistic Framework for Recognizing Similar Actions using Spatio-Temporal Features", in proc. British machine Vision Conference, Sept 2007.
78. O. Woodford, I., Reid, P. Torr and A. Fitzgibbon, "On New View Synthesis using Multiview Stereo", in proc, Briish Machine Vision Conference, Sept 2007.
79. P. Tresadern and I. Reid, "An Evaluation of Shape Descriptors for Image Retrieval in Human Pose Estimation", in proc. British Machine Vision Conference, Sept 2007.
80. O. Woodford, I. Reid and A. Fitzgibbon, "Efficient new-view synthesis using pairwise dictionary priors", in proc. IEEE Computer Vision and Pattern Recognition, June 2007.
81. L. Clemente, A. Davison, I. Reid, J. Neira and J. D. Tardos, "mapping large loops with a single hand-held camera", in proc. Robotics: Science and Systems Conference, Atlanta, June 2007.
82. C. Bibby and I. Reid, "Simultaneous Localisation and Mapping in Dynamic Environments (SLAMIDE) with Reversible Data Association", in proc. Robotics: Science and Systems Conference, Atlanta, June 2007.
83. B. Williams, P. Smith and I.D. Reid, "Automatic relocalisation for a single camera Simultaneous localisation and mapping system", in proc. International Conference on Robotics and Automation, April 2007.
84. P. Smith, I. Reid and A. Davison, "Real-time Monocular SLAM with Straight Lines", in proc. British Machine Vision Conference, Sept 2006.

85. O. Woodford, I. Reid and A. Fitzgibbon, "Fields of Experts for Image-based Rendering", in proc. British Machine Vision Conference, Sept 2006.
86. D. Rowe, I. Reid, J. Gonzalez, J-J. Villanueva, "Unconstrained Multiple-People Tracking", in DAGM (Symposium of the German Association for Pattern Recognition), Sept 2006.
87. N. Robertson, I. Reid and J. M. Brady, "Behaviour recognition and explanation for video surveillance", IET Crime and Security Conference, June 2006.
88. N. Robertson and I. Reid, "Estimating gaze direction from low-resolution faces in video", in proc. European Conference on Computer Vision, May 2006.
89. N. Robertson and I. Reid, "Behaviour understanding in video: a combined method", in proc. International Conference on Computer Vision, Beijing, Oct 2005.
90. I. Reid and K. Connor, "Multiview segmentation and tracking of dynamic occluding layers", in proc. British Machine Vision Conference, pp 919-928, Oxford, 2005.
91. P. Tresadern and I. Reid, "Articulated Structure From Motion by Factorization", in proc IEEE Conf on Computer Vision and Pattern Recognition, San Diego, 2005.
92. C. Bibby and I. Reid, "Visual tracking at sea", in proc. IEEE Conf. on Robotics and Automation, April, Barcelona, 2005.
93. N. Molton, A. Davison and I. Reid, "Locally planar patch features for real-time structure from motion", in proc. British Machine Vision Conference vol II, pp 879-888, 2004.
94. Huang Fei and I. Reid "Dynamic classifier for non-rigid human motion analysis", in proc. British Machine Vision Conference, pp 307-316, 2004.
95. P. Tresadern and I. Reid, "Uncalibrated and Unsynchronized Human Motion Capture : A Stereo Factorization Approach", in proc. IEEE Computer Vision and Pattern Recognition Conference, vol I, pp 128-134, 2004.
96. Huang Fei and I. Reid, "Joint Bayes Filter: A Hybrid Tracker for Non-rigid Hand Motion Recognition", in proc. European Conf. on Computer Vision, vol III, pp 497-508, 2004.
97. N. Molton, A. Davison and I. Reid, "Parameterisation and Probability in Image Alignment", in proc Asian Conf. on Computer Vision, 2004.
98. P. Tresadern and I. Reid, "Synchronizing Image Sequences of Non-Rigid Objects", in proc. British Machine Vision Conference, vol II, pp 629-638, 2003, **[Best Science Paper Award]**.
99. K. Connor and I. Reid, "A multiple view layered representation for dynamic novel view synthesis", in proc. British Machine Vision Conference, 2003.
100. J. Knight, A. Zisserman and I. Reid, "Linear auto-calibration for ground plane motion", in proc. IEEE Computer Vision and Pattern Recognition, vol I, pp 503-510, 2003.
101. K. Connor and I. Reid, "Novel View Specification and Synthesis", in proc. British Machine Vision Conference Vol I, pp 243-252, 2002.
102. J. Deutscher, A. Davison and I. Reid, "Automatic partitioning of high-dimensional search spaces associated with articulated body motion capture", in proc. IEEE Computer Vision and Pattern Recognition, 2001.
103. J. Knight, A. Davison and I. Reid, "Towards constant time SLAM using postponement", in proc. Intelligent Robots and Systems (IROS), 2001.
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