

Dr. Yu-Kun Lai

School of Computer Science & Informatics,
Cardiff University, 5 The Parade, Roath,
Cardiff, Wales, CF24 3AA, UK

Phone: +44(0)29 2087 6353
Email: Yukun.Lai@cs.cardiff.ac.uk
<http://users.cs.cf.ac.uk/Yukun.Lai>

Education

09/2006 – 07/2008, PhD in Computer Science, Tsinghua University, Beijing, China
09/2003 – 07/2006, Master in Computer Science, Tsinghua University, Beijing, China
09/1999 – 07/2003, Bachelor in Computer Science, Tsinghua University, Beijing, China

Academic Employment

08/2016 – Present, Cardiff University, Wales, UK
Senior Lecturer, School of Computer Science and Informatics
Responsibilities: Teaching and Research
Areas of Interest: Computer Graphics, Geometry Processing, Computer Vision, CAGD
04/2009 – 07/2016, Cardiff University, Wales, UK
Lecturer in Visual Computing, School of Computer Science and Informatics
08/2008 – 02/2009, Tsinghua University, Beijing, China
Research Fellow at Visual Media Research Center, Dept. of Computer Science and Technology

Academic Visit

10/2007 – 04/2008, Stony Brook University, Stony Brook, NY, USA
Visiting Student in Computer Science Department

Teaching Activities

- 16/17, 15/16, 14/15, 13/14, 12/13 Spring CMT205 Object-Oriented Development with Java (shared with Prof. A. D. Marshall/M. Morgan)
- 16/17, 15/16 Spring CM1208 Maths for Computer Science
- 16/17, 15/16 Spring CM2208 Scientific Computing (shared with Prof. A.D. Marshall)
- 16/17, 15/16 Autumn CM2104 Computational Mathematics (shared with Prof. A. D. Marshall)
- 14/15, 13/14, 12/13, 11/12 Spring CM1203: Fundamentals of Computing with Java (shared with M. Morgan)
- 14/15, 13/14, 12/13, 11/12 Spring CM2202: Scientific Computing and Multimedia Applications (shared with Prof. A. D. Marshall and Dr. S. Schockaert)
- 11/12, 10/11, 09/10 Autumn & Spring CMT912: Programming (shared with Prof. R. R. Martin)
- 10/11 Autumn: CM0340: Multimedia
- 10/11, 09/10 Spring CM0268: Data audio graphics & image signal processing with MATLAB (shared with Prof. A. D. Marshall)
- 09/10 Spring CMT502: Data Structures and Algorithms (shared with Dr. X. Sun)

Research Projects

- Intelligent shape editing with robust feature analysis, EPSRC, 12/2010-7/2012, PI
- Using mosaicing for finite element meshing, 10/2010-10/2013, Airbus (PhD Studentship), CoI (PI: Prof. R. R. Martin)
- Small items of research equipment at Cardiff University, EPSRC, 11/2012-3/2013, CoI (PI: Prof. K. Holford)
- Intrinsic Voronoi/Delaunay structure on manifold mesh and its applications in visual computing. Royal Society Newton Advanced Fellowship, 3/2016-2/2019, UK lead (with Dr Yongjin Liu from Tsinghua University, China).
- Data-driven realistic human motion reconstruction. Royal Society Newton Mobility Grant, 4/2016-3/2018, UK lead (with Dr Lin Gao from Institute of Computing, Chinese Academy of Sciences, China).

Publications

Journal Articles

1. B. Li, F. Zhao, Z. Su, X. Liang, **Y.-K. Lai**, P. L. Rosin, "Example-based image colorization using locality consistent sparse representation", *IEEE Transactions on Image Processing*, vol. 26(11), pp. 5188-5202, 2017.
2. B. Li, R. Liu, J. Cao, J. Zhang, **Y.-K. Lai**, X. Liu, "Online low-rank representation learning for joint multi-subspace recovery and clustering", *IEEE Transactions on Image Processing*, to appear.
3. K. Li, J. Yang, L. Liu, R. Boulic, **Y.-K. Lai**, Y. Liu, Y. Li, E. Molla. "SPA: Sparse Photorealistic Animation Using a Single RGB-D Camera", *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 27(4), pp. 771-783, 2017.
4. L. Gao, S.-Y. Chen, **Y.-K. Lai**, S. Xia, "Data-Driven Shape Interpolation and Morphing Editing", *Computer Graphics Forum*, to appear.
5. S.-Y. Chen, L. Gao, **Y.-K. Lai**, S. Xia, "Rigidity Controllable As-Rigid-As-Possible Shape Deformation", *Graphical Models*, vol. 91, pp. 13-21, 2017.
6. B. Yan, Z. Wang, A. L. Parker, **Y.-K. Lai**, P. J. Thomas, L. Yue, J. N. Monks. Superlensing Microscope Objective Lens, *Applied Optics*, vol. 56(11), pp. 3142-3147, 2017.
7. S. Xia, L. Gao, **Y.-K. Lai**, M. Yuan, J. Chai. "A survey on human performance capture and animation", *Journal of Computer Science and Technology*, vol. 32(3), 536-554, 2017.
8. B. Li, **Y.-K. Lai**, P. L. Rosin. "Example-based image colorization via automatic feature selection and fusion", *Neurocomputing*, vol. 266, pp. 687-698, 2017.
9. L. Wan, Y. Xiao, N. Dou, C.-S. Leung, **Y.-K. Lai**. "Scribble-based gradient mesh recoloring", *Multimedia Tools and Applications*, to appear.
10. L. Gao, **Y.-K. Lai**, D. Liang, S. Chen, S. Xia. "Efficient and Flexible Deformation Representation for Data-Driven Surface Modeling", *ACM Transactions on Graphics*, vol. 35(5), 158:1-17, 2016.

11. S. Lin, Y. Chen, **Y.-K. Lai**, R. R. Martin, Z.-Q. Cheng, “Fast Capture of Textured Full-Body Avatar with RGB-D Cameras”, *The Visual Computer*, vol. 32(6-8), pp. 681-691, 2016.
12. S. Lin, **Y.-K. Lai**, R. R. Martin, S. Jin, Z.-Q. Cheng, “Color-aware surface registration”, *Computers & Graphics*, vol. 58, pp. 31-42, 2016.
13. F. M. Anuar, R. Setchi, **Y.-K. Lai**, “Semantic retrieval of trademarks based on conceptual similarity”, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 46(2), pp. 220-233, 2016.
14. A. Abdulmunem, **Y.-K. Lai**, X. Sun, “Saliency guided local and global descriptors for effective action recognition”, *Computational Visual Media*, vol. 2(1), pp. 97-106, 2016.
15. K. Chen, **Y.-K. Lai**, S.-M. Hu, “3D indoor scene modeling from RGB-D data: a survey”, *Computational Visual Media*, vol. 1(4), pp. 267-278, 2015.
16. L. Gao, Y.-P. Cao, **Y.-K. Lai**, H.-Z. Huang, L. Kobbelt, S.-M. Hu, “Active exploration of large 3D model repositories”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 21(12), pp. 1390-1402, 2015.
17. J. Yang, K. Li, K. Li, **Y.-K. Lai**, “Sparse non-rigid registration of 3D shapes”, *Computer Graphics Forum*, vol. 34(5), pp. 89-99, 2015.
18. Y. Xiao, L. Wan, C. S. Leung, **Y.-K. Lai**, T.-T. Wong, “Optimization-based gradient mesh colour transfer”, *Computer Graphics Forum*, vol. 34(6), pp. 123-134, 2015.
19. K. Chen, **Y.-K. Lai**, Y.-X. Wu, R. Martin, S.-M. Hu, “Automatic semantic modeling of indoor scenes from low-quality RGB-D data using contextual information”, *ACM Transactions on Graphics*, vol. 33(6), 208:1-12, 2014.
20. M. Wang, **Y.-K. Lai**, Y. Liang, R. Martin, S.-M. Hu, “Bigger picture: data-driven image extrapolation using graph matching”, *ACM Transactions on Graphics*, vol. 33(6), 173:1-13, 2014.
21. D. Mills, A. Curtis, G. Davis, P. Rosin, **Y.-K. Lai**, “Apocalypto: revealing the Bressingham roll”, *Journal of Paper Conservation*, vol. 15(3), pp. 14-19, 2014.
22. **Y.-K. Lai**, P. L. Rosin. “Efficient circular thresholding”, *IEEE Transactions on Image Processing*, vol. 23(3), pp. 992—1001, 2014.
23. G. K. L. Tam, R. R. Martin, P. L. Rosin, **Y.-K. Lai**. “Diffusion pruning for rapidly and robustly selecting global correspondences using local isometry”, *ACM Transactions on Graphics*, vol. 33(1), Article No. 4, pp. 1-17, 2014.
24. G. K. L. Tam, R. R. Martin, P. L. Rosin, **Y.-K. Lai**. “An efficient approach to correspondences between multiple non-rigid parts”, *Computer Graphics Forum*, vol. 33(5), pp. 137-146, 2014.
25. **Y.-K. Lai**, P. L. Rosin. “Artistic rendering enhancing global structures”. *The Visual Computer*, vol. 30(10), pp. 1179-1193, 2014.
26. S.-S. Huang, G.-X. Zhang, **Y.-K. Lai**, J. Kopf, D. Cohen-Or, S.-M. Hu. “Parametric meta-filter modeling from a single example pair”, *The Visual Computer*, vol. 30(6-8), pp. 673-684, 2014.
27. O. Samko, **Y.-K. Lai**, A. D. Marshall, P. L. Rosin. “Virtual unrolling and information recovery from scanned historical documents”, *Pattern Recognition*, vol. 47(1), pp. 248-259, 2014.
28. J. Wu, R. R. Martin, P. L. Rosin, X. Sun, **Y.-K. Lai**, Y. Liu, C. Wallraven. “Use of

- non-photorealistic rendering and photometric stereo in making bas-reliefs from photographs”, *Graphical Models*, vol. 76(4), 202-213, 2014.
29. P. L. Rosin, **Y.-K. Lai**. “Artistic minimal rendering with lines and blocks”, *Graphical Models*, vol. 75(4), pp. 208-229, 2013.
 30. L. Gao, **Y.-K. Lai**, Q. Huang, S.-M. Hu. “A data-driven approach to realistic shape morphing”, *Eurographics 2013, Computer Graphics Forum*, vol. 32(2pt4), pp. 449-457, 2013.
 31. Z.-Q. Cheng, Y. Chen, R. R. Martin, **Y.-K. Lai**, A. Wang. “SuperMatching: feature matching using supersymmetric geometric constraints”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 19(11), pp. 1885-1894, 2013.
 32. G. Tam, Z.-Q. Cheng, **Y.-K. Lai**, F. C. Langbein, Y. Liu, D. Marshall, R. R. Martin, X. Sun, P. L. Rosin, “Registration of 3D point clouds and meshes: a survey from rigid to non-rigid”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 19(7), pp. 1199-1217, 2013.
 33. G.-X. Zhang, **Y.-K. Lai**, S.-M. Hu, “Efficient synthesis of gradient solid textures”, *Graphical Models*, vol. 75(3), 104-117, 2013.
 34. J. A. Quinn, F. C. Langbein, **Y.-K. Lai**, R. R. Martin, “Generalized anisotropic stratified surface sampling”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 19(7), pp. 1143-1157, 2013.
 35. Y. Xiao, L. Wan, C.-S. Leung, **Y.-K. Lai**, T.-T. Wong, “Example-based color transfer for gradient meshes”, *IEEE Transactions on Multimedia*, vol. 15(3), pp. 549-560, 2013.
 36. J. Wu, R. R. Martin, P. L. Rosin, X. Sun, F. C. Langbein, **Y.-K. Lai**, D. Marshall, Y. Liu, “Making bas-reliefs from photographs of human faces”, *Computer-Aided Design*, vol. 45(3), pp. 671-682, 2013.
 37. F. M. Anuar, R. Setchi, **Y.-K. Lai**, “Trademark image retrieval using an integrated shape descriptor”, *Expert Systems with Applications*, vol. 40(1), pp. 105-121, 2013.
 38. J. A. Quinn, F. Sun, F. C. Langbein, **Y.-K. Lai**, W. Wang, R. R. Martin, “Improved initialisation for centroidal Voronoi tessellation and optimal Delaunay triangulation”, *Computer-Aided Design*, vol. 44(11), pp. 1062-1071, 2012.
 39. **Y.-K. Lai**, R. R. Martin, “Vertex location optimisation for improved remeshing”, *Graphical Models*, vol. 74(4), pp. 233-243, 2012.
 40. L. Gao, G.-X. Zhang, **Y.-K. Lai**, “Lp shape deformation”, *Science China Information Sciences*, vol. 55(5), pp. 983-993, 2012.
 41. G.-X. Zhang, S.-P. Du, **Y.-K. Lai**, T. Ni, S.-M. Hu, “Sketch Guided Solid Texturing”, *Graphical Models*, vol. 73(3), pp.59-73, 2011.
 42. **Y.-K. Lai**, M. Jin, X. Xie, Y. He, J. Palacios, E. Zhang, S.-M. Hu, X. Gu, “Metric driven RoSy field design and remeshing”, *IEEE Transactions on Visualization and Computer Graphics*, vol. 16(1), pp. 95-108, 2010.
 43. **Y.-K. Lai**, L. Kobbelt, S.-M. Hu, “Feature aligned quad dominant remeshing using iterative local updates”, *Computer-Aided Design*, vol. 42(2), pp. 109-117, 2010.
 44. C.-H. Shen, G.-X. Zhang, **Y.-K. Lai**, S.-M. Hu, R. R. Martin, “Harmonic field based volume model construction from triangle soup”, *Journal of Computer Science and Technology*, vol. 25(3), pp. 562-571, 2010.
 45. **Y.-K. Lai**, S.-M. Hu, R. R. Martin, “Automatic and topology-preserving gradient mesh

- generation for image vectorization”. In: *ACM SIGGRAPH 2009, ACM Transactions on Graphics*, vol. 28(3), Article No. 85, pp. 1-8, 2009.
46. **Y.-K. Lai**, S.-M. Hu, R. R. Martin, P. L. Rosin, “Rapid and effective segmentation of 3D models using random walks”, *Computer Aided Geometric Design*, 26(6), pp. 665-679, 2009.
 47. Y.-J. Liu, **Y.-K. Lai** and S.-M. Hu, “Stripification of free-form surfaces with global error bounds for developable approximation”, *IEEE Transactions on Automation Science and Engineering*, vol. 6(4), pp. 700-709, 2009.
 48. **Y.-K. Lai**, Q.-Y. Zhou, S.-M. Hu, J. Wallner and H. Pottmann, “Robust feature classification and editing”, *IEEE Transactions on Visualization and Computer Graphics*, 13(1), pp. 34-45, 2007.
 49. H. Pottmann, J. Wallner, Y.-L. Yang, **Y.-K. Lai** and S.-M. Hu, “Principal curvatures from the integral invariant viewpoint”, *Computer Aided Geometric Design*, 24, pp. 428-442, 2007.
 50. **Y.-K. Lai**, S.-M. Hu and H. Pottmann, “Surface fitting based on a feature sensitive parameterization”, *Computer-Aided Design*, 38(7), pp. 800-807, 2006.
 51. **Y.-K. Lai**, S.-M. Hu and R. R. Martin, “Surface mosaics”, *The Visual Computer*, 22(9-11), pp. 604-611, 2006.

Conference Papers

1. Y. Chen, Y.-J. Liu, **Y.-K. Lai**, “Learning to Rank Retargeted Images”, CVPR 2017.
2. Y. Chen, **Y.-K. Lai**, Y.-J. Liu, “Transforming Photos to Comics using Convolutional Neural Networks”, ICIIP 2017.
3. X. Liu, M.-M. Cheng, **Y.-K. Lai**, P. L. Rosin, “Depth-aware neural style transfer”, Expressive 2017.
4. P. L. Rosin, D. Mould, I. Berger, J. Collomosse, **Y.-K. Lai**, C. Li, H. Li, A. Shamir, M. Wand, T. Wang, H. Winnemoeller, “Benchmarking non-photorealistic rendering of portraits”, Expressive 2017.
5. K. Li, M. Wang, **Y.-K. Lai**, J. Yang, F. Wu, “3-D Motion Recovery via Low Rank Matrix Restoration on Articulation Graphs”, ICME 2017.
6. D. Guo, K. Li, **Y.-K. Lai**, J. Yang, “Global alignment for deformable objects captured by a single RGB-D camera”, ICME 2017.
7. C. Liu, P. L. Rosin, **Y.-K. Lai**, G. R. Davis, D. Mills, C. Norton. “Recovering historical film footage by processing microtomographic images”. In: *Proceedings of World Cultural Heritage Conference*, 2016.
8. M. Wang, K. Li, F. Wu, **Y.-K. Lai**, J. Yang, “3-D motion recovery via low rank matrix analysis”. In: *Proceedings of Visual Communications and Image Processing*, 2016.
9. A. Abdulmunem, **Y.-K. Lai**, X. Sun, “3D GLOH Features for Human Action Recognition”. In: *Proceedings of International Conference on Pattern Recognition*, 2016.
10. C. Liu, P. L. Rosin, **Y.-K. Lai**, W. Hu, “Robust segmentation of historical parchment XMT images for virtual unrolling”. In: *Proceedings of International Congress on Digital Heritage*, 2015.
11. P. L. Rosin, **Y.-K. Lai**, “Non-photorealistic rendering of portraits”. In: *Proceedings of*

- Computational Aesthetics*, 2015.
12. F. M. Anuar, R. Setchi, **Y.-K. Lai**, "Trademark retrieval based on phonetic similarity". In: *Proceedings of IEEE International Conference on Systems, Man and Cybernetics*, 2014.
 13. D. Mills, G.R. Davis, **Y.-K. Lai**, P. L. Rosin, "Apocalypto - Recovering lost text with XMT", Proc. SPIE 9212, Developments in X-Ray Tomography IX, 2014.
 14. Y. Chen, **Y.-K. Lai**, Z.-Q. Cheng, R. R. Martin, S.-Y. Jin, "A data-driven approach to efficient character articulation". In: *Proceedings of CAD/Graphics*, pp. 32-37, 2013.
 15. J. A. Quinn, F. C. Langbein, **Y.-K. Lai**, R. R. Martin, "Fast low-discrepancy sampling of parametric surfaces and meshes". In: *Proceedings of Mathematics of Surfaces XIV*, 2013.
 16. P. L. Rosin, **Y.-K. Lai**, "Non-photorealistic rendering with spot colour". In: *Proceedings of Computational Aesthetics*, pp. 67-76, 2013.
 17. F. M. Anuar, R. Setchi, **Y.-K. Lai**, "A conceptual model of trademark retrieval based on conceptual similarity", *Knowledge-based and Intelligent Information and Engineering Systems (KES), Procedia Computer Science*, vol. 22, pp. 450-459, 2013.
 18. G.-X. Zhang, **Y.-K. Lai**, S.-M. Hu, "Efficient solid texture synthesis using gradient solids", In: *Proceedings of Computational Visual Media*, pp. 67-74, 2012 (Best Paper Award).
 19. O. Samko, **Y.-K. Lai**, D. Marshall, P. L. Rosin, "Segmentation of parchment scrolls for virtual unrolling". In: *Proceedings of British Machine Vision Conference*, 2011.
 20. P. L. Rosin, **Y.-K. Lai**, "Towards artistic minimal rendering". In: *Proceedings of ACM Symposium on Non-Photorealistic Animation and Rendering*, pp. 119-127, 2010.
 21. **Y.-K. Lai**, S.-M. Hu and T. Fang, "Robust principal curvatures using feature adapted integral invariants". In: *Proceedings of SIAM/ACM Joint Conference on Geometric and Physical Modeling*, pp. 325-330, 2009.
 22. **Y.-K. Lai**, L. Kobbelt and S.-M. Hu, "An incremental approach to feature aligned quad dominant remeshing". In: *Proceedings of ACM Symposium on Solid and Physical Modeling*, pp. 137-145, 2008.
 23. **Y.-K. Lai**, S.-M. Hu, R. R. Martin and P. L. Rosin, "Fast mesh segmentation using random walks". In *Proceedings of ACM Symposium on Solid and Physical Modeling*, pp. 183-191, 2008.
 24. **Y.-K. Lai**, Y.-J. Liu, Y. Zang and S.-M. Hu, "Fairing wireframes in industrial surface design". In: *Proceedings of IEEE International Conference on Shape Modeling and Applications*, pp. 29-38, 2008.
 25. Y. Zang, Y.-J. Liu and **Y.-K. Lai**, "Note on industrial applications of Hu's surface extension algorithm", *Geometric Modeling and Processing*, pp. 304-314, 2008.
 26. W. Zeng, X. Yin, Y. Zeng, **Y.-K. Lai**, X. Gu, D. Samaras, "3D face matching and registration based on hyperbolic Ricci flow", *CVPR Workshop on 3D Face Processing*, pp.1-8, 2008.
 27. Y.-J. Liu, **Y.-K. Lai** and S.-M. Hu, "Developable strip approximation of parametric surfaces with global error bounds", *Pacific Graphics*, pp.441-444, 2007.
 28. **Y.-K. Lai**, S.-M. Hu and R. R. Martin, "Feature sensitive mesh segmentation". In: *Proceedings of ACM Symposium on Solid and Physical Modeling*, pp. 7-16, 2006.
 29. Y.-L. Yang, **Y.-K. Lai**, S.-M. Hu and H. Pottmann, "Robust principal curvatures on multiple scales", *Eurographics Symposium on Geometry Processing*, pp. 223-226, 2006.

30. **Y.-K. Lai**, S.-M. Hu, X. Gu and R. R. Martin, “Geometric texture synthesis and transfer via geometry images”. In: *Proceedings of ACM Symposium on Solid and Physical Modeling*, pp. 15-26, 2005.

Book Chapters

1. **Y.-K. Lai**, P. L. Rosin, “Non-photorealistic rendering with reduced colour palettes”. In: *Image and Video-based Artistic Stylisation, Computational Imaging and Vision* series, vol. 42(2), pp. 211-236, Springer, 2013.

Patents

1. Method and system for rapidly vectorizing image by gradient meshes based on parameterization, S. Hu and Y. Lai, US Patent No. 9,508,162 (29/11/2016).

Honours and Awards

- Computers & Graphics Valuable Reviewer Award 2013-2014
- National Excellent Doctoral Dissertation of China Award, 2010.
- First-Class Excellent Doctoral Thesis, Tsinghua University, 2008
- Excellent PhD Graduate, Dept. of Computer Science and Technology, Tsinghua University, 2008.
- Microsoft Research Asia Fellowship, 2007.
- First-class Scholarship for Excellent Students in Tsinghua University (Morgan Stanley Scholarship), 2006.
- First-class Scholarship for Excellent Students in Tsinghua University (Sony Scholarship), 2002.
- Gold medal in National Olympiad in Informatics (NOI) of China, 1998.

Other Activities

- Welsh Crucible 2015 participant
- Team member for Green Impact Bronze awards 2014, 2015
- Team member for Green Impact Silver award 2016, 2017

Professional Activities

Journal editorial board member

- The Visual Computer (since Nov. 2012)

Conference Co-Chair

- Computational Visual Media 2016
- Eurographics Symposium on Geometry Processing 2014

Workshop Co-Chair:

- BMVA technical meeting on analysis and processing of RGBD data (2017)
- PSIVT workshop on Vision meets Graphics (2017)

Program committee member

- ACM Symposium on Solid and Physical Modeling, SIAM Conference on Geometric & Physical Modeling (SPM 2012, 2013, 2014, 2015, 2016, 2017)
- Geometric Modeling and Processing (GMP 2012, 2014, 2015, 2016, 2017, 2018)

- Pacific Graphics (PG 2012, 2015, 2016, 2017)
- Eurographics Symposium on Geometry Processing (SGP 2014, 2015, 2017)
- SIGGRAPH Asia Briefs and Posters 2014, 2015, 2016
- Expressive 2014, 2015, 2016
- Computational Visual Media (CVM 2012, 2013, 2015, 2017, 2018)
- IEEE Computer-Aided Design and Computer Graphics (CAD/Graphics 2011, 2013, 2015, 2017)
- British Machine Vision Conference (BMVC 2015, 2016)
- Eurographics 2011 Short Papers
- Intl. Conf. on Computer Animation and Social Agents (CASA 2010)
- Computer Graphics & Visual Computing (CGVC 2014, 2015, 2016)
- PSIVT Workshop on Vision meets Graphics (2015)

Member of EPSRC Associate Peer Review College.

Reviewer for proposals for EPSRC, Welsh government, Swiss NSF, Canadian research council.

Reviewer for major conferences and journals, including:

- SIGGRAPH
- SIGGRAPH Asia
- Eurographics (EG)
- Pacific Graphics (PG)
- Geometric Modeling and Processing (GMP)
- Computer Graphics International (CGI)
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Image Processing
- IEEE Transactions on Visualization and Computer Graphics
- IEEE Transactions on Affective Computing
- Computer-Aided Design
- Computer Aided Geometric Design
- Computer Graphics Forum
- The Visual Computer
- Computers & Graphics
- Graphical Models
- Journal of Computational and Applied Mathematics
- IET Computer Vision
- Multimedia Tools and Applications
- Science in China
- Journal of Computer Science and Technology
- International Journal of High Performance Computing and Networking
- Remote Sensing
- PLoS one