Pieter Peers

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Professional Experience

•	Associate Professor Computer Science Department, College of William & Marry	2016 - present
•	John and Audrey Leslie Associate Professor in Computer Scien Computer Science Department, College of William & Marry	ace 2020 - 2023
•	Visiting Researcher Microsoft Research Asia	Aug-Sept 2016, Dec 2016, 2018, 2019
•	Assistant Professor Computer Science Department, College of William & Marry	2010 - 2016
•	Assistant Research Professor University of Southern California (USC)	2009 - 2010
•	Senior Researcher Graphics Lab, University of Southern California, Institute for Creative Technologies (ICT/USC)	2006 - 2010

Education

•	Katholieke Universiteit Leuven (K.U.Leuven), Leuven, Belgium Ph.D. in Engineering: Computer Science (Computer Graphics).	August 2006
•	Katholieke Universiteit Leuven (K.U.Leuven), Leuven, Belgium Licentiaat Informatica, (Master in Informatics).	September 2000

Publications

• Books and Theses

(B1) *Pieter Peers*, "Sampling Reflectance Functions for Image-based Relighting", *Ph.D. thesis*, K.U.Leuven, August 22, 2006. 212+ix pages, ISBN 90-5682-735-9.

• Journal Publications¹

(J1) Wenjie Ye, Yue Dong, *Pieter Peers*, and Baining Guo, "Deep Reflectance Scanning: Recovering Spatially-varying Material Appearance from a Flash-lit Video Sequence", *Computer Graphics Forum*, Volume 40, Issue 6, September 2021.

¹ Includes 21 ACM Transactions on Graphics publications (of which 10 SIGGRAPH, and 8 SIGGRAPH Asia), and 4 ACM SIGGRAPH (Asia) Conference papers, which is the leading journal/conference for computer graphics and interactive techniques.

- (J2) Victoria L. Cooper, James C. Bieron, and *Pieter Peers*, "Estimating Homogeneous Data-driven BRDF Parameters from a Reflectance Map under Known Natural Lighting", *IEEE Trans. Vis. and Comp. Graph.*, June 2021.
- (J3) Duan Gao, Guojun Chen, Yue Dong, *Pieter Peers*, and Xin Tong, "Deferred Neural Lighting: Free-Viewpoint Relighting from Unstructured Photographs", *ACM Transactions on Graphics (TOG)* (*Proceedings of ACM SIGGRAPH 2020*), Volume 39, Issue 6.
- (J4) Zhoaliang Duan, James C. Bieron and *Pieter Peers*, "Deep Separation of Direct and Global Components from a Single Photograph under Structured Lighting", *Computer Graphics Forum*, Volume 39, Issue 7, October 2020.
- (J5) James C. Bieron and *Pieter Peers*, "An Adaptive BRDF Fitting Metric", *Computer Graphics Forum*, Volume 39, Issue 4, July 2020.
- (J6) Wenjie Ye, Yue Dong, and *Pieter Peers*, "Interactive Curation of Datasets for Training and Refining Generative Models", *Computer Graphics Forum*, Volume 38, Issue 7, October 2019.
- (J7) Yinming Lin, *Pieter Peers*, and Abhijeet Ghosh, "On-Site Example-Based Material Appearance Acquisition", *Computer Graphics Forum*, Volume 38, Issue 4, July 2019.
- (J8) Duan Gao, Xiao Li, Yue Dong, *Pieter Peers*, and Xin Tong, "Deep Inverse Rendering for High-resolution SVBRDF Estimation from an Arbitrary Number of Images", *ACM Transactions on Graphics (TOG)* (*Proceedings of ACM SIGGRAPH 2019*), Volume 38, Issue 4.
- (J9) Wenjie Ye, Xiao Li, Yue Dong, *Pieter Peers*, and Xin Tong, "Single Photograph Appearance Modeling with Self-augmented CNNs and Inexact Supervision", *Computer Graphics Forum*, Volume 37, Issue 7, October 2018.
- (J10) Xiao Li, Yue Dong, *Pieter Peers*, and Xin Tong, "Modeling Surface Appearance from a Single Photograph using Self-augmented Convolutional Neural Networks", *ACM Transactions on Graphics (TOG)* (*Proceedings of ACM SIGGRAPH 2017*), Volume 36, Issue 4, July 2017.
- (J11) Rui Xia, Yue Dong, *Pieter Peers*, and Xin Tong, "Recovering Shape and Spatially-Varying Surface Reflectance under Unknown Illumination", *ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia 2016)*, Volume 35, Issue 6, December 2016.
- (J12) Jérémy Riviere, *Pieter Peers*, Abhijeet Ghosh, "Mobile Surface Reflectometry", *Computer Graphics Forum*, Volume 35, Issue 1, February 2016.
- (J13) Bo Dong, Yue Dong, Xin Tong, and *Pieter Peers*, "Measurement-based Editing of Diffuse Albedo with Consistent Interreflections", *ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2015)*, Volume 34, Issue 4, Article 112, August 2015.
- (J14) Han Li, and *Pieter Peers*, "Reflectance Transfer: Example-Based Radiometric Linearization of Photographs", *Computer Graphics Forum*, Volume 34, Issue 4, June 2015.
- (J15) Yue Dong, Guojun Chen, Pieter Peers, Jiawan Zhang, and Xin Tong, "Appearance-from-Motion: Recovering Spatially Varying Surface Reflectance Under Unknown Lighting", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia 2014), Volume 33, Issue 6, Article 193, December 2014.
- (J16) Guojun Chen, Yue Dong, *Pieter Peers*, Jiawan Zhang, and Xin Tong, "Reflectance Scanning: Estimating Shading Frame and BRDF with Generalized Linear Light Sources", *ACM Transactions on Graphics (TOG)* (*Proceedings of ACM SIGGRAPH 2014*), Volume 33, Issue 4, Article 117, August 2014.
- (J17) Adam Brady, Jason Lawrence, *Pieter Peers*, and Westley Weimer, "genBRDF: Discovering New Analytic BRDFs with Genetic Programming", *ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2014)*, Volume 33, Issue 4, Article 114, August 2014.
- (J18) Johannes Kopf, Ariel Shamir, and *Pieter Peers*, "Content-adaptive Image Downscaling", *ACM Transactions* on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia 2013), Volume 32, Issue 6, Article 173, December 2013.

- (J19) Kathleen D. Moore, and *Pieter Peers*, "An Empirical Study on the Effects of Translucency on Photometric Stereo", *The Visual Computer*, Volume 29, Issue 6-8, Pages 817–824, June 2013.
- (J20) Yufeng Zhu, Pradeep Garigipati, Pieter Peers, Paul Debevec, and Abhijeet Ghosh, "Estimating Diffusion Parameters from Polarized Spherical Gradient Illumination", IEEE Computer Graphics & Applications – Special Issue on "Scattering, Acquisition, Modeling, and Rendering", Volume 33, Issue 3, pages 34–43,June 2013.
- (J21) Hao Li, Linjie Luo, Daniel Vlasic, *Pieter Peers*, Jovan Popović, Mark Pauly, and Szymon Rusinkiewicz, "Temporally Coherent Completion of Dynamic Shapes", *ACM Transactions on Graphics (TOG)*, Volume 31, Issue 1, Article 2, January 2012.
- (J22) Guojun Chen, *Pieter Peers*, Jiawan Zhang, and Xin Tong, "Real-time Rendering of Deformable Heterogeneous Translucent Objects using Multiresolution Splatting", *The Visual Computer*, Volume 28, Numbers 6-8, pages 701–711, April, 2012.
- (J23) Abhijeet Ghosh, Tongbo Chen, *Pieter Peers*, Cyrus A. Wilson, and Paul Debevec, "Circularly Polarized Spherical Illumination Reflectometry", *ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia)*, Volume 30, Issue 5, Article 5, December 2010.
- (J24) Cyrus A. Wilson, Abhijeet Ghosh, *Pieter Peers*, Jen-Yuan Chiang, Jay Busch, and Paul Debevec, "Temporal Upsampling of Performance Geometry using Photometric Alignment", *ACM Transactions on Graphics* (*TOG*), Volume 29, Issue 2, Article 17, March 2010.
- (J25) Daniel Vlasic, *Pieter Peers*, Ilya Baran, Paul Debevec, Jovan Popović, Szymon Rusinkiewicz, and Wojciech Matusik, "Dynamic Shape Reconstruction using Multi-View Photometric Stereo", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia 2009), Volume 28, Issue 5, Article 174, December 2009.
- (J26) Ying Song, Xin Tong, Fabio Pellacini, and Pieter Peers, "SubEdit: A Representation for Editing Measured Heterogenous Subsurface Scattering", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2009), Volume 28, Issue 3, Article 31, August 2009.
- (J27) Tim Weyrich, Pieter Peers, Wojciech Matusik, and Szymon Rusinkiewicz, "Fabricating Microgeometry for Custom Surface Reflectance", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2009), Volume 28, Issue 3, Article 32, August 2009.
- (J28) Abhijeet Ghosh, Tongbo Chen, Pieter Peers, Cyrus A. Wilson, and Paul Debevec, "Estimating Specular Roughness and Anisotropy from Second Order Spherical Gradient Illumination", Computer Graphics Forum (Proceedings of the Eurographics Symposium on Rendering), Volume 28, Issue 4, pages 1161–1170, June 2009.
- (J29) *Pieter Peers*, Dhruv K. Mahajan, Bruce Lamond, Abhijeet Ghosh, Wojciech Matusik, Ravi Ramamoorthi, and Paul Debevec, "Compressive Light Transport Sensing", *ACM Transactions on Graphics (TOG)*, Volume 28, Issue 1, Article 3, January 2009.
- (J30) Abhijeet Ghosh, Tim Hawkins, *Pieter Peers*, Sune Frederiksen, and Paul Debevec, "Practical Modeling and Acquisition of Layered Facial Reflectance", *ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia 2008)*, Volume 27, Issue 5, Article 139, December 2008.
- (J31) Wan-Chun Ma, Andrew Jones, Jen-Yuan Chiang, Tim Hawkins, Sune Frederiksen, *Pieter Peers*, Marko Vukovic, Ming Ouhyoung, and Paul Debevec, "Facial Performance Synthesis using Deformation-driven Polynomial Displacement Maps", *ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH Asia 2008)*, Volume 27, Issue 5, Article 121, December 2008.
- (J32) Pieter Peers, Naoki Tamura, Wojciech Matusik, and Paul Debevec, "Post-Production Facial Performance Relighting using Reflectance Transfer", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2007), Volume 26, Issue 3, Article 52, August 2007.
- (J33) Muath Sabha, *Pieter Peers*, and Philip Dutré, "Texture Synthesis using Exact Neighborhood Matching", *Computer Graphics Forum*, Volume 26, Issue 2, pages 131–142, June 2007.

- (J34) Pieter Peers, Karl vom Berge, Wojciech Matusik, Ravi Ramamoorthi, Jason Lawrence, Szymon Rusinkiewicz, and Philip Dutré, "A Compact Factored Representation of Heterogeneous Subsurface Scattering", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2006), Volume 25, Issue 3, pages 746–753, July 2006.
- (J35) Vincent Masselus, Pieter Peers, Philip Dutré, and Yves D. Willems, "Relighting with 4D Incident Light Fields", ACM Transactions on Graphics (TOG) (Proceedings of ACM SIGGRAPH 2003), Volume 22, Issue 3, pages 613–620, July 2003.

• Internationally Refereed Conference Publications

- (C1) Sam Sartor, and Pieter Peers, "MatFusion: a Generative Diffusion Model for SVBRDF Capture", ACM SIGGRAPH Asia 2023 Conference Proceedings, December 2023.
- (C2) James Bieron, Xin Tong, and *Pieter Peers*, "Single Image Neural Material Relighting", *ACM SIGGRAPH* 2023 Conference Proceedings, August 2023.
- (C3) Chong Zeng, Guojun Chen, Yue Dong, *Pieter Peers*, Hongzhu Wu, and Xin Tong, "Relighting Neural Radiance Fields with Shadow and Highlight Hints", ACM SIGGRAPH 2023 Conference Proceedings, August 2023.
- (C4) Haiwei Zhang, Jiqing Zhang, Bo Dong, *Pieter Peers*, Wenwei Wu, Xiaopeng Wei, Felix Heide, and Xin Yang, "In the Blink of an Eye: Event-Based Emotion Recognition", ACM SIGGRAPH 2023 Conference Proceedings, August 2023.
- (C5) Ghada Bakbouk, and *Pieter Peers*, "Mean Value Caching for Walk on Spheres", *Eurographics Symposium* on Rendering, June 2023.
- (C6) Yu Qiao, Bo Dong, Ao Jin, Yu Fu, Seung-Hwan Beak, Felix Heide, *Pieter Peers*, Xiaopeng Wei, and Xin Yang, "Multi-view Spectral Polarization Propagation for Video Glass Segmentation", *IEEE/CVF International Conference on Computer Vision (ICCV)*, October 2023.
- (C7) Zhaoxuan Zhang, Bo Dong, Tong Li, Felix Heide, *Pieter Peers*, Baocai Yin, and Xin Yang, "Single Depth-image 3D Reflection Symmetry and Shape Prediction", *IEEE/CVF International Conference on Computer Vision (ICCV)*, October 2023.
- (C8) Ekin Ozturk, Rob Akers, Abhijeet Ghosh, Stanislas Pamela, *Pieter Peers*, and The MAST Team, "Neural Plasma Reconstruction from Diagnostic Imaging", *EPS Conference on Plasma Physics*, June 2022.
- (C9) Haiyang Mei, Bo Dong, Wen Dong, Jiaxi Yang, Seung-Hwan Beak, Felix Heide, *Pieter Peers*, Xiaopeng Wei, and Xin Yang, "Glass Segmentation using Intensity and Spectral Polarization Cues", *IEEE International Conference on Computer Vision and Pattern Recognition*, June 2022.
- (C10) Rui Yu, Yue Dong, *Pieter Peers*, and Xin Tong, "Learning Texture Generators for 3D Shape Collections from Internet Photo Sets", *32nd British Machine Vision Conference*, November 2021.
- (C11) Feng Xie, James Bieron, *Pieter Peers*, and Pat Hanrahan, "Experimental Analysis of Multiple Scattering BRDF Models", *Siggraph Asia Technical Communications*, December 2021.
- (C12) Haiyang Mei, Bo Dong, Wen Dong *Pieter Peers*, Xin Yang, Qiang Zhang, and Xiaopeng Wei, "Depth-Aware Mirror Segmentation", *IEEE Conference on Vision and Pattern Recognition (CVPR)*, 2021.
- (C13) James C. Bieron, and *Pieter Peers*, "An Adaptive Metric for BRDF Appearance Matching", *Eurographics* Workshop on Material Appearance Modeling (MAM), 2020.
- (C14) Victoria L. Cooper, James C. Bieron, and *Pieter Peers*, "Estimating Homogeneous Data-Driven BRDF Parameters from a Reflectance Map under Known Natural Lighting", *Eurographics Workshop on Material Appearance Modeling (MAM)*, 2019.
- (C15) Xiao Li, Yue Dong, *Pieter Peers*, and Xin Tong, "Synthesizing 3D Shapes from Silhouette Image Collections using Multi-projection Generative Adversarial Networks", *IEEE Conference on Vision and Pattern Recognition (CVPR)*, 2019.

- (C16) Han Li, and *Pieter Peers*, "CRF-net: Single Image Radiometric Calibration using CNNs", *Proceedings of the 14th European Conference on Visual Media Production (CVMP2017)*, Article No. 5, December 2017.
- (C17) Bo Dong, Kathleen D. Moore, Weiyi Zhang, and Pieter Peers, "Scattering Parameters and Surface Normals from Homogeneous Translucent Materials using Photometric Stereo", IEEE Conference on Vision and Pattern Recognition (CVPR), pages 2299 - 2306, June 2014.
- (C18) Murat Kurt, Aydin Ozturk, and Pieter Peers, "A Compact Tucker-Based Factorization Model for Heterogenous Subsurface Scattering", Conference on Theory and Practice of Computer Graphics (TPCG), September 2013.
- (C19) Giuseppe Claudio Guarnera, *Pieter Peers*, Paul Debevec, and Abhijeet Ghosh, "Estimating Surface Normals from Spherical Stokes Reflectance Fields", *European Conference on Computer Vision (ECCV) – Workshop on Color & Photometry*, pages 340–349, October 2012.
- (C20) Cyrus A. Wilson, Oleg Alexander, Borom Tunwattanapong, *Pieter Peers*, Abhijeet Ghosh, Jay Busch, Arno Hartholt, and Paul Debevec, "Facial Cartography: Interactive High-Resolution Scan Correspondence", *ACM/Eurographics Symposium on Computer Animation (SCA) 2011*, pages 205–214, August 2011.
- (C21) Bruce Lamond, *Pieter Peers*, Abhijeet Ghosh, Paul Debevec, "Image-based Separation of Diffuse and Specular Reflections using Environmental Structured Illumination", *IEEE Computational Photography* 2009, April 2009.
- (C22) Wan-Chun Ma, Tim Hawkins, *Pieter Peers*, Charles-Felix Chabert, Malte Weiss, and Paul Debevec, "Rapid Acquisition of Specular and Diffuse Normal Maps from Polarized Spherical Gradient Illumination", *Rendering Techniques 2007 (Eurographics Symposium on Rendering 2007)*, pages 183–194, June 2007.
- (C23) Thomas Koninckx, Pieter Peers, Philip Dutré, and Luc Van Gool, "Scene-adapted Structured Light", IEEE International Conference on Computer Vision and Pattern Recognition (CVPR 2005), pages 611–618, June 20-25, 2005.
- (C24) Pieter Peers, and Philip Dutré, "Inferring Reflectance Functions from Wavelet Noise", Rendering Techniques 2005 (Eurographics Symposium on Rendering 2005), pages 173–182, June 2005.
- (C25) Vincent Masselus, Pieter Peers, Philip Dutré, and Yves D. Willems, "Smooth Reconstruction and Compact Representation of Reflectance Functions for Image-based Relighting", Rendering Techniques 2004 (Eurographics Symposium on Rendering 2004), pages 287–298, June 2004.
- (C26) Pieter Peers, and Philip Dutré, "Wavelet Environment Matting", Rendering Techniques 2003 (Eurographics Symposium on Rendering 2003), pages 157–166, June 2003.

Miscellaneous

- (M1) Randy Shoemaker, Sam Sartor, and *Pieter Peers*, "Intrinsic Mesh Simplification", *CoRR*, *abs*/2307.07115, July 2023.
- (M2) Lee Margetts, Rob Akers, Abhijeet Ghosh, Vignesh Gopakumar, Patrik Hadorn, Mathias Hummel, Peter Messmer, Muhammad Omer, Ekin Ozturk, Stanislas Pamela, *Pieter Peers*, Benedict D Rogers, Mark, Rothwell, WI Sellers, and Oliver Woolland, "Towards Real-time Fusion Reactor Design using the Omniverse", *Nvidia GPU Technology Conference*, March 2022.
- (M3) Lee Margetts, Rob Akers, Abhijeet Ghosh, Vignesh Gopakumar, Patrik Hadorn, Mathias Hummel, Peter Messmer, Muhammad Omer, Ekin Ozturk, Stanislas Pamela, *Pieter Peers*, Benedict D Rogers, Mark, Rothwell, WI Sellers, and Oliver Woolland, "Development of Fusion Reactor Digital Twins In the Metaverse", *IET Nuclear Engineering for Safety, Control and Security*, March 2022.
- (M4) Victoria L. Cooper, James C. Bieron, and *Pieter Peers*, "Estimating Homogeneous Data-Driven BRDF Parameters from a Reflectance Map under Known Natural Lighting", *CoRR*, *abs/1906.04777*, 2019.
- (M5) Jérémy Riviere, *Pieter Peers*, and Abhijeet Ghosh, "Mobile Surface Reflectometry", *ACM SIGGRAPH* 2014, Poster Presentation, August 2014.
- (M6) Yufeng Zhu, *Pieter Peers*, Paul Debevec, and Abhijeet Ghosh, "Estimating Diffusion Parameters from Polarized Spherical Gradient Illumination", *ACM SIGGRAPH 2012*, Technical Talk, August 2012.

- (M7) Giuseppe Claudio Guarnera, *Pieter Peers*, Paul Debevec, and Abhijeet Ghosh, "Estimating Surface Normals from Spherical Stokes Reflectance Fields", ACM SIGGRAPH 2012, Technical Talk, August 2012.
- (M8) Cyrus A. Wilson, Oleg Alexander, Borom Tunwattanapong, *Pieter Peers*, Abhijeet Ghosh, Jay Busch, Arno Hartholt, and Paul Debevec, "Facial Cartography: Interactive High-Resolution Scan Correspondence", ACM SIGGRAPH 2011, Technical Talk, August 2011.
- (M9) Kaori Kikuchi, Bruce Lamond, Abhijeet Ghosh, *Pieter Peers*, and Paul Debevec, "Free-form Polarized Spherical Illumination Reflectometry", *ACM SIGGRAPH Asia 2010*, Technical Sketch, December 2010.
- (M10) Cyrus A. Wilson, Abhijeet Ghosh, *Pieter Peers*, Jen-Yuan Chiang, Jay Busch, and Paul Debevec, "2D and 3D Facial Correspondences via Photometric Alignment", *ACM SIGGRAPH 2009*, Technical Talk, August 2009.
- (M11) Abhijeet Ghosh, Tongbo Chen, Pieter Peers, Cyrus A. Wilson, and Paul Debevec, "Estimating Specular Roughness from Polarized Second Order Spherical Gradient Illumination", ACM SIGGRAPH 2009, Technical Talk, August 2009.
- (M12) Wan-Chun Ma, Tim Hawkins, *Pieter Peers*, Charles-Felix Chabert, Malte Weiss, and Paul Debevec, "A High-Resolution Face-Scanning System Using Polarized Gradient Illumination", ACM SIGGRAPH 2007, Technical Sketch, August 2007.
- (M13) Charles-Félix Chabert, Wan-Chun Ma, Tim Hawkins, *Pieter Peers*, and Paul Debevec, "Fast Rendering of Realistic Faces With Wavelength-Dependent Normal Maps", ACM SIGGRAPH 2007, Poster Presentation, August 2007.
- (M14) Bruce Lamond, *Pieter Peers*, and Paul Debevec, "Fast Image-based Separation of Diffuse and Specular Reflections", *ACM SIGGRAPH 2007*, Technical Sketch, August 2007.
- (M15) Philip Dutré, and *Pieter Peers*, "Wavelet Environment Matting", *Hierarchical Methods in Computer Graphics*, Dagstuhl Seminar 03271, June 29–July 4, 2003.
- (M16) *Pieter Peers*, and Philip Dutré, "Accurate Image Based Re-lighting through optimization", *13th Eurographics Workshop on Rendering*, Poster Presentation, June 2002.
- (M17) *Pieter Peers*, and Philip Dutré, "Accurate Image Based Re-lighting through optimization", *ACM SIGGRAPH 2002*, Technical Sketch, July 2002.

• Techincal Reports

- (T1) Hideshi Yamada, *Pieter Peers*, Paul Debevec, "Compact Representation of Reflectance Fields using Clustered Sparse Residual Factorization", *ICT Technical Report*, ICT-TR-02-2009, June 17, 2009, ICT/USC, 11 pages.
- (T2) Pieter Peers, Dhruv K. Mahajan, Bruce Lamond, Abhijeet Ghosh, Wojciech Matusik, Ravi Ramamoorthi, Paul Debevec, "Compressive Light Transport Sensing", ICT Technical Report, ICT-TR-05.2008, May 30, 2008, ICT/USC, 17 pages.
- (T3) Bruce Lamond, Pieter Peers, Paul Debevec, "Fast Image-based Separation of Diffuse and Specular Reflections", ICT Technical Report, ICT-TR-02.2007, May 21, 2007, ICT/USC, 7 pages.
- (T4) *Pieter Peers*, Tim Hawkins, Paul Debevec, "A Reflective Light Stage", *ICT Technical Report*, ICT-TR-04.2006, December 23, 2006, ICT/USC, 18 pages.
- (T5) Pieter Peersand Philip Dutré, "Update Rules for a Weighted Non-negative FH*G Factorization", Technical Report CW440, Department of Computer Science, K.U.Leuven, April 2006, 7 pages.
- (T6) *Pieter Peers*, Vincent Masselus and Philip Dutré, "Free-form Acquisition of Shape and Appearance", *Technical Report CW403*, Department of Computer Science, K.U.Leuven, February 2005, 18 pages.
- (T7) *Pieter Peers* and Philip Dutré, "Accurate Image Based Re-lighting through optimization", *Technical Report CW336*, Department of Computer Science, K.U. Leuven, April 2002, 17 pages.

Patents

(P1)	(P1) #8,300,234, "Estimating spectral distribution of reflections from object surface based on low frequency illumination", Oct. 30, 2012		
(P2)	#8,988,599, "Illumination Sphere with Intelligent LED Lighting Un Interchangeable Filters", Mar. 31, 2015	its in Scalable Daisy Chain with	
Теа	aching Experience		
•	(W&M) CSCI 427/527 - Fundamentals of Computer Graphics A new course and syllabus.	Spr. 11-16, 18-22, 24	
•	(W&M) CSCI 437 - Introduction to Game Design and Game Development A new course and syllabus.	Fall 14-15, 17-19, Spring 21-22, 24	
•	(W&M) CSCI 780 - Computer Graphics vs. Computer Vision A new course and syllabus.	Spr. 20	
•	(W&M) CSCI 780 - Advanced Computer Graphics A new course and syllabus.	Fall 11, 13, 15	
•	(W&M) CSCI 790 - Large Scale Scene Matching Reading class.	Fall 14	
•	(W&M) CSCI 141 - Introduction to Computer Science Replaced instructor (Debbie Noonan) for 5 lectures.	Fall 13	
•	(W&M) CSCI 690 - Neural Reflectance Models Reading class.	Spr. 24	
•	(W&M) CSCI 790 - Advanced Global Illumination Reading class.	Fall 13	
•	(W&M) CSCI 790 - Signal Processing for Rendering Reading class.	Fall 12	
•	(W&M) CSCI 790 - Computer Vision Reading class.	Spr. 12	
•	(W&M) CSCI 780 - Topics in Computer Graphics A new course and syllabus.	Fall 10, 12	
•	(W&M) CSCI 790 - Polygon Mesh Processing Reading class.	Spr. 11	
•	(USC) CS 599 - Advanced Computer Graphics: Photographic Image Synthesis (together with Prof. Paul Debevec, and Dr. Abhijeet Ghosh). A new course and syllabus, highly rated by students.	Spr. 09-10	
•	(KUL) Practical Sessions Computer Graphics Designing and grading practical tests (approx. 60 students per year).	2000-06	
•	(KUL) Advanced Programming Structures Replaced Prof. Dr. ir. Yves D. Willems for a single lecture.	November 2005	

•	(KUL) Advanced Programming Structures Teaching of advanced programming techniques (practical sessions), such as backtracking. (approx. 45 students per year).	2003-2005
•	(KUL) Computer Graphics Replaced Prof. Dr. ir. Philip Dutré for a single lecture.	October 2004
•	(KUL) Methodology of Computer Science Teaching of practical sessions on an introduction to JAVA. Included the design and grading of practical tests (2 classes of 25 students per year).	2001-2004
•	(KUL) Structure and Organization of Computer Systems Teaching of practical sessions on an introduction to assembler languages. (3 classes of 25 students).	2000-2001

Honors, Prizes and Awards

•	W&M Alumni Fellowship Award	2016
•	Plumeri Award for Faculty Excellence	2017
•	Class of 2020 Influencer Recognition	2021

Professional Activities

- Technical Program Chair
 - Eurographic Symposium On Rendering (EGSR) 2014 (co-chair with Wojciech Jarosz).
- Program Committees
 - ACM Siggraph, 2020.
 - ACM Siggraph Asia 2013-2015, 2019.
 - ACM Siggraph Asia, Poster & Briefs, 2016
 - CGI 2011, 2015-2016.
 - ProCams 2011-2012.
 - Computational Cameras and Displays (CCD) 2013
 - VMV 2007 2009.
 - Eurographics (EG) 2009 2010, 2015, 2024.
 - Eurographics Symposium on Rendering (EGSR) 2009-2011, 2013, 2017-2020, 2022-2023.
 - Asian Conference on Computer Vision (ACCV) 2010, 2012, 2014, 2016, 2018.
 - Pacific Graphics 2013-2016.
 - SIBGRAPHI 2014-2018.

• Reviewing

- Conference Reviewing
 - * ACM Siggraph 2004 2024.
 - * ACM Siggraph Asia 2008 2023.
 - * Eurographics Symposium on Rendering (EGSR) 2003 2013, 2015-2023.
 - * Eurographics (EG) 2007 2024.
 - * Vision, Modeling and Visualization (VMV) 2007 2009.
 - * ProCams 2011-2012.
 - * Pacific Graphics (PG) 2006, 2013-2018.
 - * Graphics Interface (GI) 2008.

- * IEEE International Conference on Computational Photography (ICCP) 2009.
- * IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2023-2024.
- * European Conference on Computer Vision (ECCV) 2024.
- * Asian Conference on Computer Vision (ACCV) 2009-2012, 2014, 2016, 2018.
- Journal Reviewing
 - * ACM Transactions on Graphics (TOG).
 - * Computer Graphics Forum (CGF).
 - * IEEE Transactions on Visualization and Computer Graphics (TVCG).
 - * IEEE Transactions on Pattern Recognition and Machine Intelligence (PAMI)
 - * Pattern Recognition.
 - * Image and Vision Computing (IVC).
 - * Computer and Graphics (CAG).
 - * 3D Imaging, Processing and Modeling (SI:3D)

Professional Services

•	Awards & Prizes, Chair (CSCI-W&M)	Fall 23 - Spr. 24
•	Faculty Hiring Committee (CSCI-W&M)	Fall 23 - Spr. 24
•	Undergraduate Research Committee (W&M)	Fall 21 - Spr. 24
•	Graduate Curriculum Committee, Chair (CSCI-W&M)	Fall 17 - Spr. 22 Fall 23 - Spr. 24
•	Freshmen Advising (W&M)	Fall 2013- Spr. 24
•	Zable Graduate Fellowship Committee (W&M)	Fall 23- Spr. 24
•	Personnel Committee (CSCI-W&M)	Spring 18 - Spr. 24
•	Committee on Nominations & Elections, Chair (W&M)	Fall 22 - Spr. 23
•	Graduate Director (CSCI-W&M)	Fall 18 - Spr. 22
•	Committee on Nominations & Elections (W&M)	Fall 20 - Spr. 22
•	Committee on Graduate Studies and Research (W&M)	Fall 18 - Spr. 22
•	Graduate Admission Committee, Chair (CSCI-W&M)	Fall 18 - Spr. 22
•	System Committee (CSCI-W&M)	Fall 2017 - Spring 19, 21-22
•	Recruiting Outreach Committee, Chair (CSCI-W&M)	Fall 18 - Spr. 21
•	Admission Policy Advisory Committee (W&M)	Fall 17 - Spr. 21
•	System Committee, Chair (CSCI-W&M)	Fall 19 - Spr. 21
•	Consensual Amorous Relations (CAR) Working Group (COGS-W&M)	Fall 19 - Spr. 20
•	Pre-doc Working Group (A&S-W&M)	Fall 19 - Spr. 20
•	Faculty Assembly (W&M)	Fall 18 - Spr. 19
•	Graduate Admission Committee (CSCI-W&M)	Fall 10 - Spr. 13 Fall 17 - Spr. 18
•	Committee for Natural and Comp. Sciences Undergrad. Mentoring Award (W	(&M) Spr. 12-18
•	Committee for Natural and Comp. Sciences Thesis/Dissertation Awards (W&	M) Spr. 12-16
•	Colloquium Committee (CSCI-W&M)	Fall 10 - Spr. 16
•	Graduate Curriculum Committee (CSCI-W&M)	Fall 10 - Spr. 16
•	Faculty Recruiting (CSCI-W&M)	Fall 2013 - Spring 2016

•	Graduate Research Symposium – Session Chair (W&M)	Fall 15
•	Park Graduate Award Selection Committee (CSCI-W&M)	Fall 13-15
•	International Orientation Session - Speaker Accademic Culture (W&M)	Summer 13
•	Committee for Thomas Jefferson Prize in Natural Philosophy (W&M)	Fall 13