

# Curriculum Vitae

## Dr. Mark Pauly

Associate Professor

Computer Graphics and Geometry Laboratory

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## Personal

1974            born in Bernkastel-Kues, Germany

Nationality    German

## Education

2003    Ph.D. in Computer Science (ETH medal), ETH Zurich, Switzerland

1999    Diploma Degree in Computer Science (with honors), TU Kaiserslautern, Germany

## Academic Positions

since Dec. 2009            Associate Professor at the I&C School, EPFL, Lausanne, director of the EPFL  
Computer Graphics and Geometry Laboratory

Apr. 2005 – Nov. 2009    Assistant Professor at the Computer Science Department, ETH Zurich

Aug. 2005                    Visiting Assistant Professor at Stanford University, USA

Aug. 2003 – Apr. 2005    Postdoctoral Scholar at Stanford University, USA

Apr. 2000 – Jul. 2003    Research Assistant and Ph.D. Student at ETH Zurich

Oct. 1997 – Apr. 1998    Research Assistant at the University of New South Wales, Australia

## **Professional Activities**

### **Conference Organization**

Program co-chair of the Symposium on Advances in Architectural Geometry, 2016  
Organizer of Symposium on Architectural Geometry as part of Curves and Surfaces Conference, 2014  
Conference chair Symposium on Geometry Processing, 2011  
Program co-chair Symposium on Architectural Geometry, 2010  
STARs co-chair Eurographics Conference, 2009  
Program co-chair Shape Modeling International 2007  
General chair IEEE/Eurographics Symposium on Point-Based Graphics 2006  
Program co-chair IEEE/Eurographics Symposium on Point-Based Graphics 2005

### **Paper Committees**

ACM Siggraph Conference 2004, 2007, 2008, 2010, 2014  
Eurographics Symposium on Geometry Processing 2005, 2006, 2007, 2008, 2009, 2010, 2012  
Advances in Architectural Geometry 2012, 2014  
ACM SIGGRAPH/Eurographics Symposium on Computer Animation 2005, 2006, 2007, 2009  
Eurographics Conference 2004, 2012, 2015  
Pacific Graphics Conference 2004, 2005, 2007  
IEEE/Eurographics Symposium on Point-Based Graphics 2004  
Vision, Modeling, and Visualization, 2004, 2005, 2006  
IEEE Symposium on Interactive Raytracing 2006  
ACM Symposium on Interactive 3D Graphics and Games 2007  
Shape Modeling International 2008, 2009

### **Editorial Work**

Editor of Advances in Architectural Geometry, Springer, 2010,  
Guest Editor of The Visual Computer, Springer, 2004  
Guest Editor of Computers & Graphics, Elsevier, 2004

### **Journal, Conference, and Grant Reviewing**

ACM Siggraph Conference, ACM Transactions on Graphics, IEEE Visualization Conference, IEEE Computer Graphics & Applications, IEEE Transactions on Visualization and Computer Graphics, IEEE Transactions on Pattern Analysis and Machine Intelligence, Eurographics Conference, Eurographics Symposium on Rendering, Eurographics Symposium on Geometry Processing, Graphics Interface Conference, Vision, Modeling, and Visualization Workshop, Pacific Graphics Conference, Computers & Graphics Journal, Shape Modeling International, Visual Computer Journal, Graphical Models Journal, Journal on Computing and Cultural Heritage, International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, Swiss National Science Foundation, European Research Council, Austrian Science Fund

## Prizes and academic honours

- 2015 Best Paper Award: Tagliasacchi, Schroeder, Tkach, Bouaziz, Botsch, Pauly: *Robust Articulated ICP for Real-Time Hand Tracking*, Eurographics Symposium on Geometry Processing
- 2012 Best Paper Award: Kiser, Eigensatz, Nguyen, Bompas, Pauly: *Architectural Caustics – Controlling Light with Geometry*, Advances in Architectural Geometry
- 2012 EPFL Polysphere Teaching Award
- 2009 Best Student Paper Award: Weise, Li, vanGool, Pauly: *Face/Off: Live Facial Puppetry*, ACM SIGGRAPH/Eurographics Symposium on Computer Animation
- 2007 ACM SIGGRAPH Course Award: Botsch, Pauly, Kobbelt, Alliez, Levy, Roessl, Bischoff: *Geometric Modeling Based on Polygon Meshes*, ACM SIGGRAPH
- 2006 Eurographics Young Researcher Award
- 2006 Best Paper Award: Botsch, Pauly, Gross, Kobbelt: *PriMo: Coupled Prisms for Intuitive Surface Modeling*, Eurographics Symposium on Geometry Processing
- 2004 ETH medal for outstanding dissertation: Pauly: *Point Primitives for Interactive Modeling and Processing of 3D Geometry*, Hartung Gorre, ISSN 1439-5053, 2003

## Invited lectures at international conferences

- 2015 Keynote: Design Modelling Symposium, Copenhagen, Denmark
- 2014 Keynote: *Computational Architecture*, International Symposium on Advances in Architectural Geometry, London, UK
- 2013 Keynote: *Realtime Performance-based Facial Avatars for Immersive Gameplay*, ACM Symposium on Motion in Games, Dublin, Ireland  
Invited Talk: *Computational Caustics*, EPFL Night of the Museum
- 2012 Keynote: *Performance-driven Facial Animation*, Conference on Facial Analysis and Animation, Vienna, Austria  
Invited Talk: *Computational Caustics*, EPFL Photonics Day  
Invited Talk: *Graphics Innovation for Immersive Gameplay*, Symposium Gameculture – Next Level, EPFL  
Invited Talk: *Architectural Caustics – Controlling Light with Geometry*, International Symposium on Advances in Architectural Geometry, Paris, France
- 2010 Invited Lecture: *Paneling Architectural Freeform Surfaces*, Curves and Surfaces Conference - Architectural Geometry, Avignon, France
- 2009 Keynote: *The Symmetry of Things*, Shape Modeling International Conference, Beijing, China  
Invited Talk: *Stage: Structure-Aware Geometry*, International Workshop on Surfaces, Meshes, Geometric Structures, Admont, Austria

- 2008 Invited Talk: *Symmetry for Architectural Design*, International Symposium on Advances in Architectural Geometry, Vienna, Austria
- 2007 Invited Talk: *Embedded Deformation*, International Workshop on Polyhedral surfaces and industrial applications, Strobl, Austria
- Invited Talk: *Surface Reconstruction Using Local Shape Priors*, Symposium on Geometry Processing, Barcelona, Spain
- Invited Talk: *Symmetry Detection and Symmetrization*, Symposium on Visual Computing - Convergence of Computer Graphics and Computer Vision, Dagstuhl, Germany
- 2006 Invited Talk: *Probabilistic Fingerprints for Shapes*, Symposium on Geometry Processing, Cagliari, Italy

## Publications

### Articles in peer reviewed journals and conference proceedings

1. A. Ichim, S. Bouaziz, M. Pauly: Dynamic 3D Avatar Creation from Hand-held Video Input, ACM Transactions on Graphics (SIGGRAPH), 2015
2. A. Kaspar, B. Neubert, D. Lischinski, M. Pauly, J. Kopf: Sel-Tuning Texture Optimization, Computer Graphics Forum (Eurographics), 2015
3. B. Deng, S. Bouaziz, M. Deuss, A. Kaspar, Y. Schwartzburg, M. Pauly: Interactive Design Exploration of Constrained Meshes, *Compute-Aided Design* 61:13-23, 2015
4. A. Tagliasacchi, M. Schroder, A. Tkach, S. Bouaziz, M. Botsch, M. Pauly: Robust Articulated ICP for Real-Time Hand Tracking, Eurographics Symposium on Geometry Processing, 2015
5. M. Deuss, D. Panozzo, E. Whiting, Y. Liu, P. Block, O. Sorkine-Hornung, M. Pauly: Assembling Self-Supporting Structures, ACM Transactions on Graphics (SIGGRAPH Asia), 2014
6. S. Bouaziz, S. Martin, T. Liu, L. Kavan, M. Pauly: Projective Dynamics: Fusing Constraint Projections for Fast Simulation, ACM Transactions on Graphics (SIGGRAPH), 2014
7. Y. Schwartzburg, R. Testuz, A. Tagliasacchi, M. Pauly: High-contrast Computational Caustic Design, ACM Transactions on Graphics (SIGGRAPH), 2014
8. Garg, A. Sageman-Furnas, B. Deng, Y. Yue, E. Grinspun, M. Pauly, M. Wardetzky: Wire Mesh Design, ACM Transactions on Graphics (SIGGRAPH), 2014
9. D. Ceylan, N. Mitra, Y. Zheng, M. Pauly: Coupled Structure-from-Motion and 3D Symmetry Detection for Urban Facades, ACM Transactions on Graphics 2014
10. Deng, S. Bouaziz, M. Deuss, A. Kaspar, Y. Schwartzburg, M. Pauly: Interactive Design Exploration for Constrained Meshes, *Computer Aided Design*, 2014
11. M. Dang, D. Ceylan, B. Neubert, M. Pauly: SAFE: Structure-aware Facade Editing, Computer Graphics Forum (Eurographics), 2014
12. S. Lienhard, M. Specht, B. Neubert, M. Pauly, P. Müller: Thumbnail Galleries for Procedural Models, Computer Graphics Forum (Eurographics), 2014
13. S. Bouaziz, Y. Wang, M. Pauly: Online Modeling For Realtime Facial Animation, ACM Transactions on Graphics (SIGGRAPH), 2013
14. Ceylan, W. Li, N. Mitra, M. Agrawala, M. Pauly: Designing and Fabricating Mechanical Automata from Mocap Sequences, ACM Transactions on Graphics (SIGGRAPH Asia), 2013

15. N. Mitra, M. Pauly, M. Wand, D. Ceylan: Symmetry in 3D Geometry: Extraction and Applications, Computer Graphics Forum, 2013
16. S. Bouaziz, A. Tagliasacchi, M. Pauly: Sparse Iterative Closest Point, Computer Graphics Forum (Symposium on Geometry Processing), 2013
17. M. Pauly, M. Eigensatz, P. Bompas, F. Rist, R. Krenmüller: Controlling Caustics, Glass Performance Days, 2013
18. R. Testuz, Y. Schwartzburg, M. Pauly: Automatic Generation of Constructable Brick Sculptures, Eurographics Short Paper, 2013
19. B. Deng, S. Bouaziz, M. Deuss, J. Zhang, Y. Schwartzburg, M. Pauly: Exploring Local Modifications for Constrained Meshes, Computer Graphics Forum (Eurographics), 2013
20. Y. Schwartzburg, M. Pauly: Fabrication-aware Design with Intersecting Planar Pieces, Computer Graphics Forum (Eurographics) 2013
21. T. Kiser, M. Eigensatz, M. Nguyen, P. Bompas, M. Pauly: Architectural Caustics – Controlling Light with Geometry, Advances in Architectural Geometry, 2012
22. S. Bouaziz, M. Deuss, Y. Schwartzburg, T. Weise, M. Pauly: Shape-Up: Shaping Discrete Geometry with Projections, Computer Graphics Forum (SGP), 2012
23. L. Luo, H. Li, S. Paris, T. Weise, M. Pauly, S. Rusinkiewicz: Multi-View Hair Capture Using Orientation Fields, IEEE Int. Conference on Computer Vision and Pattern Recognition (CVPR), 2012
24. Ceylan, N. Mitra, H. Li, T. Weise, M. Pauly: Factored Façade Acquisition using Symmetric Line Arrangements, Computer Graphics Forum (Proceedings of Eurographics), 2012
25. H. Li, L. Luo, D. Vlastic, P. Peers, J. Popovic, M. Pauly, S. Rusinkiewicz: Temporally Coherent Completion of Dynamic Shapes, ACM Transactions on Graphics. 2012
26. Y. Schwartzburg, M. Pauly: Design and Optimization of Orthogonally Intersecting Planar Surfaces, Computational Design and Modelling, 2011
27. T. Weise, S. Bouaziz, H. Li, M. Pauly: Realtime Performance-Based Facial Animation, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2011
28. Käser, M. Agrawala, M. Pauly: FingerGlass: Efficient Multiscale Interaction on Multitouch Screens, ACM CHI, 2011
29. M. Eigensatz, M. Kilian, A. Schiftner, N. Mitra, H. Pottmann, M. Pauly: Paneling Architectural Freeform Surfaces, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2010
30. B. Miklos, J. Giesen, M. Pauly: Discrete Scale Axis Representations for 3D Geometry, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2010
31. H. Li, T. Weise, M. Pauly: Example-Based Facial Rigging, ACM Transactions on Graphics (Proceedings of SIGGRAPH), 2010
32. M. Eigensatz, M. Deuss, A. Schiftner, M. Kilian, N. Mitra, H. Pottmann, M. Pauly: Case Studies in Cost-Optimized Paneling of Architectural Freeform Surfaces, Advances in Architectural Geometry, 2010
33. N. Mitra, M. Pauly: Shadow Art, ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia), 2009
34. H. Li, B. Adams, L. Guibas, M. Pauly: Robust Single-View Geometry and Motion Reconstruction, ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia), 2009
35. T. Weise, H. Li, L. vanGool, M. Pauly: Face/Off: Live Facial Puppetry, ACM SIGGRAPH/Eurographics Symposium on Computer Animation, 2009
36. J. Giesen, B. Miklos, M. Pauly, C. Wormser: The Scale Axis Transform, Symposium of Computational Geometry, 2009
37. M. Eigensatz, M. Pauly: Positional, Metric, and Curvature Control for Constraint-Based Surface Deformation, Computer Graphics Forum (Eurographics), 2009
38. N. Thürey, R. Keiser, U. Rüdè, M. Pauly: Detail-Preserving Fluid Control, Journal of Graphical Models, 2009
39. M. Pauly, N. Mitra, J. Wallner, H. Pottmann, L. Guibas: Discovering Structural Regularity in 3D Geometry, ACM Transactions on Graphics (SIGGRAPH), 2008

40. Grabler, M. Agrawala, R. Sumner, M. Pauly: Automatic Generation of Tourist Maps, ACM Transactions on Graphics (SIGGRAPH), 2008
41. M. Eigensatz, R. Sumner, M. Pauly: Curvature-domain Shape Processing, Computer Graphics Forum (Eurographics), 2008
42. Li, R. Sumner, M. Pauly: Global Correspondence Optimization for Non-Rigid Registration of Depth Scans, Computer Graphics Forum (SGP), 2008
43. N. Mitra, M. Pauly: Symmetry for Architectural Design, Advances in Architectural Geometry, 2008
44. N. Mitra, L. Guibas, M. Pauly: Symmetrization, ACM Transactions on Graphics (SIGGRAPH), 2007
45. R. Sumner, J. Schmid, M. Pauly: Embedded Deformation for Shape Manipulation, ACM Transactions on Graphics (SIGGRAPH), 2007
46. B. Adams, M. Pauly, R. Keiser, L. Guibas: Adaptively Sampled Particle Fluids, ACM Transactions on Graphics (SIGGRAPH), 2007
47. M. Botsch, M. Pauly, M. Wicke, M. Gross: Adaptive Space Deformation Based on Rigid Cells, Computer Graphics Forum (Eurographics), 2007
48. R. Gal, A. Shamir, T. Hassner, M. Pauly, D. Cohen-Or: Surface Reconstruction Using Local Shape Priors, Eurographics Symposium on Geometry Processing, 2007
49. B. Miklos, J. Giesen, M. Pauly: Medial Axis Approximation from Inner Voronoi Balls, ACM Symposium on Computational Geometry Multimedia, 2007
50. J. Mitra, L. Guibas, M. Pauly: Partial and Approximate Symmetry Detection for 3D Geometry, ACM Transactions on Graphics (SIGGRAPH), 2006
51. M. Botsch, M. Pauly, M. Gross, L. Kobbelt: PriMo: Coupled Prisms for Intuitive Surface Modeling, Eurographics Symposium on Geometry Processing, 2006, best paper award
52. N. Mitra, L. Guibas, J. Giesen, M. Pauly: Probabilistic Fingerprints for Shapes, Eurographics Symposium on Geometry Processing, 2006
53. N. Thürey, R. Keiser, U. Rüdè, M. Pauly: Detail-Preserving Fluid Control, ACM SIGGRAPH/Eurographics Symposium on Computer Animation, 2006
54. M. Wicke, M. Gross, M. Pauly, M. Mueller, P. Hatt: Versatile Virtual Materials Using Implicit Connectivity, IEEE/Eurographics Symposium on Point-Based Graphics, 2006
55. F. Cazals, J. Giesen, M. Pauly, A. Zomorodian: The Conformal Alpha Shape Filtration, The Visual Computer, 2006
56. M. Pauly, L. Kobbelt, M. Gross: Point-Based Multi-Scale Surface Representation. ACM Transactions on Graphics, 2006
57. M. Botsch, R. Sumner, M. Pauly, M. Gross: Deformation Transfer for Detail-Preserving Surface Editing, Vision, Modeling, and Visualization, 2006
58. M. Pauly, R. Keiser, B. Adams, P. Dutre, M. Gross, L. Guibas: Meshless Animation of Fracturing Solids, ACM Transactions on Graphics (SIGGRAPH), 2005
59. B. Adams, R. Keiser, M. Pauly, L. Guibas, M. Gross, P. Dutre: Efficient Ray-Tracing of Deformable Point-Sampled Surfaces, Computer Graphics Forum (Eurographics), 2005
60. M. Pauly, N. Mitra, J. Giesen, M. Gross, L. Guibas: Example-Based 3D Scan Completion, Eurographics Symposium on Geometry Processing, 2005
61. F. Cazals, J. Giesen, M. Pauly, A. Zomorodian: Conformal Alpha Shapes, IEEE/Eurographics Symposium on Point-Based Graphics, 2005
62. M. Pauly, D. Pai, L. Guibas: Quasi-Rigid Objects in Contact, ACM Siggraph/Eurographics Symposium on Computer Animation, 2004
63. M. Mueller, R. Keiser, A. Nealen, M. Pauly, M. Gross, M. Alexa: Point-Based Animation of Elastic, Plastic, and Melting Objects, ACM Siggraph Symposium on Computer Animation, 2004
64. M. Pauly, N. Mitra, L. Guibas: Uncertainty and Variability in Point Cloud Surface Data, IEEE/Eurographics Symposium on Point-Based Graphics, 2004
65. B. Adams, M. Wicke, P. Dutre, M. Gross, M. Pauly, M. Teschner: Interactive 3D Painting on Point-Sampled Objects, IEEE/Eurographics Symposium on Point-Based Graphics, 2004

66. T. Weyrich, M. Pauly, R. Keiser, S. Heinzle, S. Scandella, M. Gross: Post-processing of Scanned 3D Surface Data, IEEE/Eurographics Symposium on Point-Based Graphics, 2004
67. M. Andersson, J. Giesen, M. Pauly, B. Speckmann: Bounds on the k-Neighborhood for Locally Uniformly Sampled Surfaces, IEEE/Eurographics Symposium on Point-Based Graphics, 2004
68. M. Zwicker, R. Raesaenen, M. Botsch, C. Dachsbacher, M. Pauly: Perspective Correct Splatting, Graphics Interface, 2004
69. D. Cotting, T. Weyrich, M. Pauly, M. Gross: Robust Watermarking of Point-Sampled Geometry, International Conference on Shape Modeling and Applications, 2004
70. M. Pauly, R. Keiser, M. Gross: Multi-scale Feature Extraction on Point-Sampled Surfaces. Computer Graphics Forum (Eurographics), 2003
71. M. Pauly, R. Keiser, L. Kobbelt, M. Gross: Shape Modeling with Point-sampled Geometry. ACM Transactions on Graphics (SIGGRAPH), 2003
72. M. Pauly, M. H. Gross, L. Kobbelt: Efficient Simplification of Point-Sampled Surfaces. Proceedings of the IEEE Visualization Conference, 2002
73. M. Zwicker, M. Pauly, O. Knoll, M. Gross: Pointshop3D: An interactive system for point-based surface editing. Proceedings of ACM SIGGRAPH, 2002
74. M. Pauly, M. H. Gross: Spectral Processing of Point-Sampled Geometry. Proceedings of ACM SIGGRAPH, 2001
75. M. Pauly, T. Kollig, A. Keller: Metropolis Light Transport for Participating Media. Eurographics Workshop on Rendering, 2000

## Books and Book chapters

76. M. Botsch, L. Kobbelt, M. Pauly, P. Alliez, B. Levy: Polygon Mesh Processing, AK Peters, 2010
77. C. Ceccato, L. Hesselgren, M. Pauly, H. Pottmann, J. Wallner (eds.): Advances in Architectural Geometry, ISBN-10: 3709103088, 2010
78. E. Galin, M. Pauly, B. Wyvill (eds.): Shape Modeling International 2007, IEEE Computer Society, ISBN-10:0 0-769502815-5, 2007
79. J. Wu, L. Kobbelt, M. Pauly: Sampling of Point Models, In: Gross, Pfister (eds.), Point-Based Graphics, Morgan Kaufmann, ISBN-10: 0-12-370604-1, 2007
80. M. Pauly, L. Kobbelt: Shape Modeling, In: Gross, Pfister (eds.), Point-Based Graphics, Morgan Kaufmann, ISBN-10: 0-12-370604-1, 2007
81. R. Keiser, M. Pauly: Animation of Fracturing Material, In: Gross, Pfister (eds.), Point-Based Graphics, Morgan Kaufmann, ISBN-10: 0-12-370604-1, 2007
82. M. Botsch, B. Chen, M. Pauly, M. Zwicker (eds.): Point-Based Graphics 2006, Eurographics / IEEE VGTC Symposium Proceedings, ISSN 1811-7813, 2006
83. M. Pauly, M. Zwicker, M. Alexa, S. Rusinkiewicz (eds.): Point-Based Graphics 2005, Eurographics / IEEE VGTC Symposium Proceedings, ISSN 1811-7813, 2005
84. M. Pauly: Point Primitives for Interactive Modeling and Processing of 3D Geometry, ETH Ph.D. Thesis, Hartung Gorre, ISSN 1439-5053, 2003

## Other publications

85. S. Bouaziz, A. Tagliasacchi, M. Pauly: Dynamic 2D/3D Registration, Eurographics Tutorial Notes, 2014
86. M. Pauly: Realtime Performance-Based Facial Avatars for Immersive Gameplay, ACM SIGGRAPH Conference on Motion in Games 2013, invited paper

87. S. Bouaziz, M. Pauly: Dynamic 2D/3D Registration for the Kinect, ACM SIGGRAPH Course Notes, 2013
88. N. Mitra, M. Pauly, M. Wand, D. Ceylan: Symmetry in 3D Geometry: Extraction and Applications, Eurographics State-of-the-Art Report, 2012
89. W. Chang, H. Li, N. Mitra, M. Pauly, M. Wand: Dynamic Geometry Processing, Eurographics Tutorial Notes, 2012
90. T. Kiser, M. Pauly: Caustic Art, EPFL Technical Report, 2012
91. W. Chang, H. Li, N. Mitra, M. Pauly, S. Rusinkiewicz, M. Wand: Computing Correspondences in Geometric Data Sets, Eurographics Tutorial Notes, 2011
92. W. Chang, H. Li, N. Mitra, M. Pauly, M. Wand: Geometric Registration for Deformable Shapes, Eurographics Tutorial Notes, 2010
93. M. Botsch, M. Pauly, L. Kobbelt, P. Alliez, B. Levy, C. Roessl, S. Bischoff: Geometric Modeling Based on Polygon Meshes, Eurographics Tutorial Notes, 2008
94. M. Botsch, M. Pauly, L. Kobbelt, P. Alliez, B. Levy, C. Roessl, S. Bischoff: Geometric Modeling Based on Polygon Meshes, ACM SIGGRAPH Course Notes, 2007
95. R. Sumner, M. Pauly: Resolution-Independent Detail Preservation for 3D Shape Editing, ETH Zurich Technical Report, 2006
96. R. Keiser, B. Adams, P. Dutre, L. Guibas, M. Pauly: Multiresolution Particle-Based Fluids, ETH Zurich Technical Report, 2006
97. M. Botsch, M. Pauly, C. Roessl, S. Bischoff, L. Kobbelt: Geometric Modeling Based on Triangle Meshes, Eurographics Tutorial Notes, 2006
98. M. Botsch, M. Pauly, C. Roessl, S. Bischoff, L. Kobbelt: Geometric Modeling Based on Triangle Meshes, ACM SIGGRAPH Course Notes, 2006
99. M. Alexa, M. Gross, M. Pauly, H. Pfister, M. Stamminger, M. Zwicker: Point-Based Computer Graphics, ACM SIGGRAPH Course Notes, 2004
100. M. Alexa, M. Gross, M. Pauly, H. Pfister, M. Stamminger, M. Zwicker: Point-Based Computer Graphics, Eurographics Tutorial Notes, 2003
101. M. Alexa, M. Gross, M. Pauly, H. Pfister, M. Stamminger, M. Zwicker: Point-Based Computer Graphics, Eurographics Tutorial Notes, 2002
102. M. Pauly, L. Kobbelt, M. Gross: Multiresolution Modeling of Point-Sampled Geometry, ETH Zurich Technical Report, 2002
103. M. Pauly: Robust Monte Carlo Methods for Photorealistic Rendering of Volumetric Effects, Diploma Thesis, University of Kaiserslautern, 1999