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http://kesen.realtimerendering.com/sig2017.html

https://dl.acm.org/citation.cfm?id=3072959&CFID=1009082327&CFTOKEN=33620145

1. VNect: Real-time 3D Human Pose Estimation with a Single RGB Camera

Dushyant Mehta (MPI Informatik and Saarland University), Srinath Sridhar Oleksandr Sotnychenko Helge Rhodin (MPI Informatik), Mohammad Shafiei (MPI Informatikand Saarland University), Hans-Peter Seidel, Weipeng Xu (MPI Informatik), Dan Casas (Universidad Rey Juan Carlos GVV Group), Christian Theobalt (MPI Informatik)

2. Real-time Geometry, Albedo and Motion Reconstruction Using a Single RGBD Camera (**TOG Paper**)

Kaiwen Guo, Feng Xu (Tsinghua University, Beijing), Tao Yu (Tsinghua University, Beijing and Beihang University), Xiaoyang Liu, Qionghai Dai, Yebin Liu (Tsinghua University, Beijing)

3. Modeling Surface Appearance From a Single Photograph Using Self-Augmented Convolutional Neural Networks

Xiao Li (Microsoft Research Asia and University of Science and Technology of China), Yue Dong (Microsoft Research Asia), Pieter Peers (College of William & Mary), Xin Tong (Microsoft Research Asia),

4. Virtual Rephotography: Novel View Prediction Error for 3D Reconstruction (**TOG Paper**)

Michael Waechter, Mate Beljan, Simon Fuhrmann, Nils Moehrle (Technische Universitat Darmstadt), Johannes Kopf (Facebook), Michael Goesele (Technische Universitat Darmstadt)

5. Computational Zoom: A Framework for Post-Capture Image Composition

Abhishek Badki (University of California, Santa Barbara), Orazio Gallo, Jan Kautz (NVIDIA Research), Pradeep Sen (University of California, Santa Barbara)

6. Co-Locating Style-Defining Elements on 3D Shapes (**TOG Paper**)

Ruizhen Hu, Wenchao Li (Shenzhen University), Oliver van Kaick (Carleton University), Hui Huang (VisuCA/SIAT), Melinos Averkiou (University of Cyprus), Daniel Cohen-Or (Tel Aviv University), Hao Zhang (Simon Fraser University)

7. Deformation-Driven Shape Correspondence via Shape Recognition

Chenyang Zhu, Renjiao Yi (Simon Fraser University and National University of Defense Technology (NUDT)), Wallace Lira, Ibraheem Alhashim (Simon Fraser University),Kai Xu (National University of Defense Technology (NUDT)), Hao Zhang (Simon Fraser University)

8. GRASS: Generative Recursive Autoencoders for Shape Structures

Jun Li, Kai Xu (National University of Defense Technology (NUDT)), Siddhartha Chaudhuri (IIT Bombay), M. Ersin Yumer (Adobe Research), Hao Zhang (Simon Fraser University), Leonidas Guibas (Stanford University)

9. Interactive High-Quality Green-Screen Keying via Color Unmixing (**TOG Paper**)

Yagiz Aksoy (ETH Zurich and Disney Research Zurich), Tunc Ozan Aydin (Disney Research Zurich), Marc Pollefeys (ETH Zurich), Aljosa Smolic (Disney Research Zurich)

10. Unmixing-Based Soft Color Segmentation for Image Manipulation (**TOG Paper**)

Yagiz Aksoy (ETH Zurich and Disney Research Zurich), Tunc Ozan Aydin, Aljosa Smolic (Disney Research Zurich), Marc Pollefeys (ETH Zurich)

11. Data-Driven Synthesis of Smoke Flows with CNN-based Feature Descriptors

Mengyu Chu, Nils Thuerey (TU Munich)

12. Learning Hierarchical Shape Segmentation and Labeling from Online Repositories

Li Yi, Leonidas Guibas (Stanford University), Aaron Hertzmann, Vladimir G. Kim (Adobe Research), Hao Su (Stanford University), Ersin Yumer (Adobe Research)

13. Convolutional Neural Networks on Surfaces via Seamless Toric Covers

Haggai Maron, Meirav Galun, Noam Aigerman, Miri Trope, Nadav Dym (Weizmann Institute of Science), Ersin Yumer, Vladimir G. Kim (Adobe Research), Yaron Lipman(Weizmann Institute of Science)

14. O-CNN: Octree-based Convolutional Neural Networks for 3D Shape Analysis

Peng-Shuai Wang (TSinghua University, Beijing and Microsoft Research Asia), Yang Liu (Microsoft Research Asia), Yu-Xiao Guo (University of Electronic Science and Technology of China and Microsoft Research Asia), Chun-Yu Sun (TSinghua University, Beijing and Microsoft Research Asia), Xin Tong (Microsoft Research Asia)

15. ClothCap: Seamless 4D Clothing Capture and Retargeting

Gerard Pons-Moll, Sergi Pujades (Max Planck Institute for Intelligent Systems), Sonny Hu (Body Labs), Michael Black (Max Planck Institute for Intelligent Systems)

16. A Deep Learning Approach for Generalized Speech Animation

Sarah Taylor (University of East Anglia), Taehwan Kim, Yisong Yue (California Institute of Technology), Moshe Mahler, James Krahe, Anastasio Garcia Rodriguez (Disney Research Pittsburgh), Jessica Hodgins (Carnegie Mellon University), Iain Matthews (Disney Research Pittsburgh)

17. Audio-Driven Facial Animation by Joint End-to-End Learning of Pose and Emotion

Tero Karras, Timo Aila, Samuli Laine (NVIDIA Research), Antti Herva (Remedy Entertainment), Jaakko Lehtinen (NVIDIA Research and Aalto University)

18. Synthesizing Obama: Learning Lip Sync from Audio

Supasorn Suwajanakorn, Steve Seitz, Ira Kemelmacher-Shlizerman (University of Washington)

19. VoCo: Text-based Insertion and Replacement in Audio Narration

Zeyu Jin (Princeton University), Gautham Mysore, Stephen DiVerdi, Jingwan Lu (Adobe Research), Adam Finkelstein (Princeton University)

20. Kernel-predicting Convolutional Networks for Denoising Monte Carlo Renderings

Steve Bako* (University of California, Santa Barbara), Thijs Vogels* (ETH Zurich and Disney Research Zurich), Brian McWilliams (Disney Research Zurich), Mark Meyer(Pixar Research), Jan Novak (Disney Research Zurich), Alex Harvill (Pixar Research), Pradeep Sen (University of California, Santa Barbara), Tony DeRose (Pixar Research),Fabrice Rousselle (Disney Research Zurich)

21. Interactive Reconstruction of Monte Carlo Image Sequences using a Recurrent Denoising Autoencoder

Chakravarty R. Alla Chaitanya (NVIDIA Research and McGill University), Anton S. Kaplanyan (NVIDIA Research), Christoph Schied (NVIDIA Research and Karlsruhe Institute of Technology), Marco Salvi, Aaron Lefohn (NVIDIA Research), Derek Nowrouzezahrai (McGill University), Timo Aila (NVIDIA Research)

22. Globally and Locally Consistent Image Completion

Satoshi Iizuka, Edgar Simo-Serra, Hiroshi Ishikawa (Waseda University)

23. Nautilus: Recovering Regional Symmetry Transformations for Image Editing

Michal Lukac (Adobe Research), Daniel Sykora (Czech Technical University in Prague), Kalyan Sunkavalli, Eli Shechtman (Adobe Research), Ondrej Jamriska (Czech Technical University in Prague), Nathan Carr (Adobe Research), Tomas Pajdla (Czech Technical University in Prague)

24. Deep Extraction of Manga Structural Lines

C. Li, X. Liu, Tien-Tsin Wong (The Chinese University of Hong Kong)

25. Deep Bilateral Learning for Real-Time Image Enhancement

Michael Gharbi (MIT CSAIL), Jiawen Chen, Jonathan T. Barron, Samuel W. Hasinoff (Google), Fredo Durand (MIT CSAIL)

26. Real-Time User-Guided Image Colorization with Learned Deep Priors

Richard Zhang*, Jun-Yan Zhu*, Phillip Isola, Xinyang Geng, Angela S. Lin, Tianhe Yu, Alexei A. Efros (University of California, Berkeley) (*indicates equal contributions)

27. Visual Attribute Transfer through Deep Image Analogy

Jing Liao (Microsoft Research Asia), Yuan Yao (Shanghai Jiao Tong University), Lu Yuan, Gang Hua (Microsoft Research Asia), Sing Bing Kang (Microsoft Research)

28. BendSketch: Modeling Freeform Surfaces Through 2D Sketching

Changjian Li (The University of Hong Kong and Microsoft Research Asia), Hao Pan, Yang Liu, Xin Tong (Microsoft Research Asia), Alla Sheffer (The University of British Columbia), Wenping Wang (The University of Hong Kong)

29. DeepSketch2Face: A Deep Learning Based Sketching System for 3D Face and Caricature Modeling

Xiaoguang Han, Chang Gao, Yizhou Yu (The University of Hong Kong)

30. Portrait Lighting Transfer using a Mass Transport Approach (**TOG Paper**)

Zhixin Shu (Stony Brook University), Sunil Hadap, Eli Shechtman, Kalyan Sunkavalli, Sylvain Paris (Adobe Research), Dimitris Samaras (Stony Brook University and CentraleSupelec, Universite Paris-Saclay)

31. Phace: Physics-based Face Modeling and Animation

Alexandru-Eugen Ichim (EPFL), Petr Kadlecek (Charles University in Prague), Ladislav Kavan (University of Utah), Mark Pauly (EPFL)

32. Facial Retargeting with Automatic Range of Motion Alignment

Roger Blanco i Ribera* (KAIST), Eduard Zell* (Bielefeld University), J. P. Lewis (Frostbite Labs and Victoria University), Junyong Noh (KAIST), Mario Botsch (Bielefeld University)

33. Example-Based Synthesis of Stylized Facial Animations

Jakub Fiser, Ondrej Jamriska (Czech Technical University in Prague), David Simons, Eli Shechtman, Jingwan Lu, Paul Asente, Michal Lukac (Adobe Research), Daniel Sykora (Czech Technical University in Prague)

34. A Data-driven Approach to Four-view Image-based Hair Modeling

Meng Zhang, Menglei Chai, Hongzhi Wu, Kun Zhou (Zhejiang University)

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35. Learning to Group Discrete Graphical Patterns

ZhaoLiang Lun* (University of Massachusetts Amherst), Changqing Zou* (Simon Fraser University), Haibin Huang, Evangelos Kalogerakis (University of Massachusetts Amherst), Ping Tan (Simon Fraser University), Marie-Paule Cani, (INRIA Rhone-Alpes), Hao Zhang (Simon Fraser University) (* indicates co-first author)

36. AVATAR DIGITIZATION FROM A SINGLE IMAGE FOR REAL-TIME RENDERING

Liwen Hu, Shunsuke Saito, Lingyu Wei, Koki Nagano Jaewoo Seo, Iman Sadeghi, Jens Fursund Yen-Chun Chen, Hao Li (University of Southern California)

37. Learning a model of facial shape and expression from 4D scans

Tianye Li (University of Southern California), Timo Bolkart (MPI for Intelligent Systems), Hao Li (University of Southern California), Michael J. Black, Javier Romero (MPI for Intelligent Systems)

38. ComplementMe: Weakly-supervised Component Suggestion for 3D Modeling

Minhyuk Sung, Hao Su (Stanford University), Vladimir G. Kim (Adobe Research), Siddhartha Chaudhuri (IIT Bombay), Leonidas Guibas (Stanford University)

39. Online Generative Model Personalization for Hand Tracking

Anastasia Tkach* (EPFL), Andrea Tagliasacchi* (University of Victoria), Edoardo Remelli, Mark Pauly (EPFL), Andrew Fitzgibbon (Microsoft) (*Joint first authors)

40. Learning to Predict Indoor Illumination from a Single Image

Marc-Andre Gardner (Universite Laval), Kalyan Sunkavalli, Ersin Yumer, Xiaohui Shen, Emiliano Gambaretto (Adobe Research), Christian Gagne, Jean-Francois Lalonde(Universite Laval)

41. Embodied Hands: Modeling and Capturing Hands and Bodies Together

Javier Romero* (Body Labs), Dimitrios Tzionas* Michael J. Black (MPI for Intelligent Systems) (*Joint first authors)

42. Bringing Portraits to Life

Hadar Averbuch-Elor, Daniel Cohen-Or (Tel Aviv University), Johannes Kopf, Michael Cohen (Facebook)

43. Real-time 3D Eyelids Tracking from Semantic Edges

Quan Wen, Feng Xu Ming Lu, Jun-Hai Yong (Tsinghua University, Beijing)

44. HDR image reconstruction from a single exposure using deep CNNs

Gabriel Eilertsen, Joel Kronander (Linkoping University), Gyorgy Denes, Rafal K. Mantiuk (University of Cambridge), Jonas Unger (Linkoping University)