Ondřej Texler



- Intern Research Scientist, Adobe Research, Seattle, Washington.7/2018 10/2108Combining neural-network-based and patch-based style transfer methods.Chunk-based style transfermethod with a focus on real-time performance.Chunk-based style transfer
- Intern Research Scientist, Adobe Research, San Jose, California9/2017 12/2107Guiding patch-based style transfer method using convolutional neural networks, image harmonization,
and histogram optimization. Integrating developed style transfer method into Adobe Photoshop.
- Software Architect and Developer, Dynavix, Prague, Czechia 5/2014 9/2017Software Architecture & Development. The navigation application for smartphones. C++, Java, Objective-C, C#.
- Software Developer, World of Warcraft game server, Prague, Czechia 2/2013 5/2014Software Development. The World of Warcraft game server. Extending game mechanics, scripting artificial intelligence, data-mining. C++, C#.

PUBLICATIONS S. Ravichandran, O. Texler, D. Dinev, and HJ. Kang: Synthesizing Photorealistic Virtual Humans Through Cross-modal Disentanglement. *IEEE/CVF Conference on Computer Vision and Pattern Recognition* (CVPR 2023, June 2023)

A. Texler, O. Texler, M. Kučera, M. Chai, and D. Sýkora: FaceBlit: Instant Real-time Examplebased Style Transfer to Facial Videos. In Proceedings of the ACM in Computer Graphics and Interactive Techniques, 4(1):14 (I3D'21, April 2021)

F. Hauptfleisch, O. Texler, A. Texler, J. Křivánek, and D. Sýkora: StyleProp: Real-time Examplebased Stylization of 3D Models. In *Computer Graphics Forum*, 39(7):575–586 (Pacific Graphics 2020)

O. Texler, D. Futschik, M. Kučera, O. Jamriška, Š. Sochorová, M. Chai, S. Tulyakov, and D. Sýkora: Interactive Video Stylization Using Few-Shot Patch-Based Training. In *ACM Transactions on Graphics*, 39(4):73 (SIGGRAPH 2020, August 2020) Featured at RealTime Live @ SIGGRAPH 2020, won Best in Show Award.

O. Texler, D. Futschik, J. Fišer, M. Lukáč, J. Lu, E. Shechtman, and D. Sýkora: **Arbitrary Style Transfer Using Neurally-Guided Patch-Based Synthesis.** In *Computers & Graphics*, 87:62–71 (January 2020)

O. Jamriška, Š. Sochorová, O. Texler, M. Lukáč, J. Fišer, J. Lu, E. Shechtman, and D. Sýkora: Stylizing Video by Example. In *ACM Transactions on Graphics*, 38(4):107 (SIGGRAPH 2019, Los Angeles, California, July 2019)

O. Texler, J. Fišer, M. Lukáč, J. Lu, E. Shechtman, and D. Sýkora: **Enhancing Neural Style Transfer using Patch-Based Synthesis.** In *Proceedings of the 8th ACM/EG Expressive Symposium, pp. 43–50* (Expressive 2019, Genoa, Italy, May 2019)

D. Sýkora, O. Jamriška, O. Texler, J. Fišer, M. Lukáč, J. Lu, and E. Shechtman: StyleBlit: Fast Example-Based Stylization with Local Guidance. In *Computer Graphics Forum*, 38(2):83–91 (Eurographics 2019, Genoa, Italy, May 2019)

O. Texler and D. Sýkora: **Example-Based Stylization of Navigation Maps on Mobile Devices.** In *Proceedings of the 22nd Central European Seminar on Computer Graphics.*, (CESCG 2018, Smolenice, Slovakia, 2018)

Selected Patents	O. Texler, D. Dinev, A. Gupta, H.J. Kang, A. Liot, S. Ravichandran, S. Sadi: Hierarchical Model- based Generation of Images, US Patent US17/967,868, December 2023
	S. Ravichandran, A. Liot, D. Dinev, O. Texler, H.J. Kang, J. Palan, S. Sadi: Creating Images, Meshes, and Talking Animations from Mouth Shape Data, US Patent US17/967,872, December 2023
	S. Ravichandran, D. Dinev, O. Texler, A. Gupta, J. Palan, H.J. Kang, A. Liot, S. Sadi: Multimodal Disentanglement for Generating Virtual Human Avatars, US Patent US18/296,202, January 2024
	D. Dinev, O. Texler, S. Ravichandran, J. Palan, H.J. Kang, A. Gupta, A. Unnikrishnan, A. Liot, S. Sadi: End-to-end System for Synthesizing Talking Virtual Human Avatars, US Patent App. 63/436,058, December 2022
	H.J. Kang, S. Ravichandran, O. Texler, D. Dinev, A. Liot, S. Sadi: Architecture for Using 1D Inputs in Image-2-Image Translation Networks, US Patent App. 63/436,211, December 2022
	D. Dinev, S. Ravichandran, H.J. Kang, O. Texler, A. Liot, S. Sadi High-fidelity Neural Rendering of Images US Patent App. 63/461,199, January 2024
	A. Liot, A. Unnikrishnan, S. Sadi, S. Banerjee, V. Gokul, J. Palan, H.J. Kang, O. Texler Cache-based Content Distribution Network US Patent App. 63/453,825, January 2024
	R. Lokesh, S. Banerjee, H.J. Kang, O. Texler, S. Sadi Lightweight Rendering System with on-device Resolution Improvement US Patent App. 63/456,337, January 2024
Selected Talks & Interviews	 SIGGRAPH Now 2021, invited talk, link 2d3d.ai, invited talk, 2021, link BBC News Arabic, interview, 2020, link RealTime Live!, session at SIGGRAPH 2020, link ECCV 2020, short oral, link SIGGRAPH 2020, paper session, link Expressive 2019, paper session EuroGraphics 2019, paper session CESCG 2018, paper session
Review Services	 AI4CC @ CVPR 2024, AI for Content Creation Workshop CAG 2024, Computers & Graphics CTU in Prague 2024, Thesis Reviewer WACV 2024, IEEE/CVF Winter Conference on Applications of Computer Vision CAG 2023, Computers & Graphics TVCG 2022, IEEE Transactions on Visualization and Computer Graphics SIGGRAPH Asia 2022, ACM Transactions on Graphics SIGGRAPH 2022, ACM Transactions on Graphics SIGGRAPH Asia 2021, ACM Transactions on Graphics Pacific Graphics 2021, Computer Graphics Forum
Awards	Joseph Fourier Prize Laureate, 2021 Best in Show Award, Real-Time Live, SIGGRAPH 2020
Student Supervision	 A. Moravcová, MSc, CTU in Prague A. Sternwaldová, MSc, CTU in Prague
Programming & Tools	C/C++, Python, Java PyTorch, OpenCV, CUDA