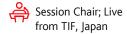
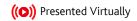


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HALL B5 (1) (5F B BLOCK) TECHNICAL PAPERS SCHEDULE





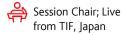


Japan Time	TUESDAY, 14 DECEMBER 2021
Japan Tille	
09:00 - 09:55 ((o))	 O1. Character Simulation PBNS: Physically Based Neural Simulation for Unsupervised Garment Pose Space Deformation Motion Recommendation for Online Character Control SuperTrack: Motion Tracking for Physically Simulated Characters using Supervised Learning Modeling Clothing as a Separate Layer for an Animatable Human Avatar Transflower: probabilistic autoregressive dance generation with multimodal attention
10:00 – 10:55 ((O)) (A)	 O2. Turbulence and Fluids Predicting High-Resolution Turbulence Details In Space and Time Fast and Versatile Fluid-Solid Coupling for Turbulent Flow Simulation Ships, Splashes, and Waves on a Vast Ocean Spiral-Spectral Fluid Simulation FrictionalMonolith: A Monolithic Optimization-based Approach for Granular Flow with Contact-Aware Rigid-Body Coupling
11:00 – 11:55 (O) (E)	 O3. Physically-based Simulation and Motion Control Human Dynamics from Monocular Video with Dynamic Camera Movements Foids: Bio-Inspired Fish Simulation for Generating Synthetic Datasets Weatherscapes: Nowcasting Heat Transfer and Water Continuity Camera Keyframing with Style and Control A Material Point Method for Nonlinearly Magnetized Materials
12:00 – 12:55 (O) (A)	 O4. Computational Photography Time-Travel Rephotography Polarimetric Spatio-Temporal Light Transport Probing Kaleidoscopic Structured Light Layered Neural Atlases for Consistent Video Editing Aesthetic-guided Outward Image Cropping
13:00 – 13:55 (O) (A)	 O5: Synthesizing Human Images SketchHairSalon: Deep Sketch-based Hair Image Synthesis Neural Actor: Neural Free-view Synthesis of Human Actors with Pose Control Barbershop: GAN-based Image Compositing using Segmentation Masks EyelashNet: A Dataset and A Baseline Method for Eyelash Matting Pose with Style: Detail-Preserving Pose-Guided Image Synthesis with Conditional StyleGAN
14:30 – 17:30	Digging into the Technical Papers (in Japanese) [Birds of a Feather Session]



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HALL B5 (1) (5F B BLOCK) TECHNICAL PAPERS SCHEDULE



((C)) Presented Virtually

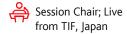


Japan Time	WEDNESDAY, 15 DECEMBER 2021	
09:00 - 09:55 ((D)) 뎪	 O6: Facial Animation and Rendering Live Speech Portraits: Real-Time Photorealistic Talking-Head Animation Rendering with Style: Combining Traditional and Neural Approaches for High-Quality Face Rendering Semi-supervised video-driven facial animation transfer for production FreeStyleGAN: Free-view Editable Portrait Rendering with the Camera Manifold 	
10:00 – 10:55 (O) (A)	 O7: Scene Synthesis and Navigation Synthesizing Scene-Aware Virtual Reality Teleport Graphs Continuous Aerial Path Planning for 3D Urban Scene Reconstruction Aerial Path Planning for Online Real-Time Exploration and Offline High-Quality Reconstruction of Large-Scale Urban Scenes Joint Computational Design of Workspaces and Workplans AutoMate: A Dataset and Learning Approach for Automatic Mating of CAD Assemblies 	
11:00 – 11:55 (O) (A)	 O8: Natural Phenomena TreePartNet: Neural Decomposition of Point Clouds for 3D Tree Reconstruction ICTree: Automatic Perceptual Metrics for Tree Models Learning to Reconstruct Botanical Trees from Single Images Modeling Flower Pigmentation Patterns Practical Pigment Mixing for Digital Painting 	
12:00 – 12:55 ((0))	 O9. Neural Rendering HyperNeRF: A Higher-Dimensional Representation for Topologically Varying Neural Radiance Fields NeRFactor: Neural Factorization of Shape and Reflectance Under an Unknown Illumination Dynamic Neural Garments Neural Frame Interpolation for Rendered Content Neural Radiosity 	
13:00 – 13:55 ((o))	 10: Audio and Visual Displays VR Social Copresence with Light Field Displays Project Starline: A high-fidelity telepresence system Reproducing Reality with a High-Dynamic-Range Multi-Focal Stereo Display Neural 3D Holography: Learning Accurate Wave Propagation Models for 3D Holographic Virtual and Augmented Reality Displays Binaural Audio Generation via Multi-task Learning 	
14:30 – 17:30	Digging into the Technical Papers (in Japanese) [Birds of a Feather Session]	



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HALL B5 (1) (5F B BLOCK) TECHNICAL PAPERS SCHEDULE







Japan Time	THURSDAY, 16 DECEMBER 2021
09:00 - 09:55 ((©))	 11. NPR and Digital Art AdaptiBrush: Adaptive General and Predictable VR Ribbon Brush Multi-Class Inverted Stippling Shading Rig: Dynamic Art-Directable Stylised Shading for 3D Characters Physically-based Feature Line Rendering SketchGNN: Semantic Sketch Segmentation with Graph Neural
10:00 – 10:55 ((O)) (A)	 12: Geometry Processing and Simulation Interactive Cutting and Tearing in Projective Dynamics with Progressive Cholesky Updates Integer Coordinates for Intrinsic Geometry Processing Generalized Fluid Carving With Fast Lattice-Guided Seam Computation "Locking-Proof Tetrahedra" Sum-of-Squares Geometry Processing
11:00 – 11:55 (O) (E)	 Meshing Generalized Adaptive Refinement for Grid-based Hexahedral Meshing Q-zip: Singularity Editing Primitive for Quad Meshes Convex polyhedral meshing for robust solid modeling Interactive All-Hex Meshing via Cuboid Decomposition
12:00 – 12:55 (O) (A)	 14. Surface Parameterization and Texturing TM-NET: Deep Generative Networks for Textured Meshes I ♥ LA: Compilable Markdown for Linear Algebra Computing Sparse Cones with Bounded Distortion for Conformal Parameterizations Optimizing Global Injectivity for Constrained Parameterization Efficient and Robust Discrete Conformal Equivalence with Boundary
13:00 – 13:55 (O)	 15. Curves and Surfaces DeepVecFont: Synthesizing High-quality Vector Fonts via Dual-modality Learning Repulsive Surfaces Keypoint-Driven Line Drawing Vectorization via PolyVector Flow Differentiable Surface Triangulation Repulsive Curves
14:30 – 17:30	Digging into the Technical Papers (in Japanese) [Birds of a Feather Session]



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HALL B5 (1) (5F B BLOCK) TECHNICAL PAPERS SCHEDULE







Japan Time	FRIDAY, 16 DECEMBER 2021
09:00 - 09:55 ((0)) (2)	 16. Fabrication Spatial-Temporal Motion Control via Composite Cam-follower Mechanisms Generalized Deployable Elastic Geodesic Grids Optimizing Contact-based Assemblies Volume decomposition for two-piece rigid casting Computational Design of Planar Multistable Compliant Structures
10:00 – 10:55 (O) (A)	 17. Reconstruction Deep3DLayout: 3D Reconstruction of an Indoor Layout from a Spherical Panoramic Image Intuitive and Efficient Roof Modeling for Reconstruction and Synthesis Large Steps in Inverse Rendering of Geometry Neural Marching Cubes Supervoxel Convolution for Online 3D Semantic Segmentation
11:00 – 11:55 (O) (E)	 18. Sampling and Denoising Cascaded Sobol' Sampling Ensemble Denoising for Monte Carlo Renderings Path Graphs: Iterative Path Space Filtering Learning to Cluster for Rendering with Many Lights Monte Carlo Denoising via Auxiliary Feature Guided Self-Attention
12:00 – 12:55 ((o))	 19. Real-time Rendering Fast Volume Rendering with Spatiotemporal Reservoir Resampling Perceptual Model for Adaptive Local Shading and Refresh Rate ExtraNet: Real-time Extrapolated Rendering for Low-latency Temporal Supersampling Tessellation-Free Displacement Mapping for Ray Tracing Fast and Accurate Spherical Harmonics Products
13:00 – 13:55 (O) (A)	 20. Light Interactions and Differentiable Rendering Differentiable Time-Gated Rendering Differentiable Transient Rendering Generative Modelling of BRDF Textures from Flash Images Physical Light-Matter Interaction in Hermite-Gauss Space Beyond Mie Theory: Systematic Computation of Bulk Scattering Parameters based on Microphysical Wave Optics
14:00 – 14:30 ((O))	Introduction to SIGGRAPH Asia Technical Papers 2022
14:30 – 17:30	Digging into the Technical Papers (in Japanese) [Birds of a Feather Session]



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