

SONY



Snap Inc.



whicept piesimaging CHANGING THE WAY WE COUNT PHOTONS









SAMSUNG RESEARCH AMERICA





Program

Session 1 — 4 talks (It minute talk + 4 minute Q&A)	O	
Session 1 — 4 talks (11 minute talk + 4 minute Q&A) Learnable Polarization multiplexed Modulation Imager for Depth from Defocus Above Huang Mingrou Dai, Tay Use, Xuemei Hu Polarization Multi-Image Synthesis with Bigrifringent Metasurifaces Dean S. Hastinch, Soon wild Daniel Lima, Gi Guo Kederico Capasso, Todd Zickler Glare Removal for Astronomical Images with High Local Dynamic Range Mas-Ohrier Van Bastelaer, Heiner Kremer, Valentin Volchkor, Jean-Claude Passy, Bernhard Schölkopf Using Zodiacal Light for Spaceborne Calibration of Polarimetric Imagers Or Avitan, Schechner Youx, Ehud Behar 1030 - 1100 Invited talk: Untravelling Immune Cell Metabolism and Function at Single-cell Resolution Melissa Skala Ition - 1130 Reynote 1 - Aki Roberge, NASA Towards Earth Zoe, Exoplanets and Future Space Telescopes Lunch: Industry Consortium Mentorship Event Afternoon Session Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li Session 2 — 3 talks (11 minute talk + 4 minute Q&A) Colls. Compressive Implicit Radar Colls. Compressive Implicit Radar Farellax Driven Denoising of Passively-Secatewed Thermal Imagery Connor Hasherin, Takahiro Sasaki, James R. Leger Moire vision: A Signal Processing Technology Beyond Pixels using the Moire Coordinate Kensel Jo, Missahiko Imam Passer and Demo Spotlights 1 Coffee Break Session 3 — 4 talks (11 minute talk + 4 minute Q&A) Coffee Break Session 5 — 8 talks (11 minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD Frames Ferian Li. Henge Gow, Horoski Sanno, Famio Okara, Vasuyuki Matsushira Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Altura Hilmanon, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Zyn Wing. Wei Yang, Junning Cao, Qiang Hii, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean Islaming Gow Denoising Sean Islaming Gow Denoising Sean Proposedite Lunch: Hang		Friday, July 28 - Morning Session
Learnable Polarization-multiplexed Modulation Imager for Depth from Defocus Zhinev Hanag, Mingout Dai, Tao Ying, Amenie Hu Polarization Multi-Image Synthesis with Birefringent Metasurfaces Dean S. Hazinch, Soon Wei Daniel Lim, Qi Guo, Federico Capasso, Todd Zickler Glare Removal for Astronomical Images with High Local Dynamic Range Max-Olivier Van Bastelsen, Heiner Kremer, Valentin Volchkov, Jean-Claude Passy, Bernhard Schölkopf Using Zodiacal Light for Spaceborne Calibration of Polarimetric Imagers Junied Talls: Unraveling Immune Cell Metabolism and Function at Single-cell Resolution Metissa Sala Inoo-II30 Coffee Break Keynote 1- Aki Roberge, NASA Towards Earth 20: Exoplanets and Future Space Telescopes Lunch; Industry Consortium Mentorship Event Afternoon Session Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lef Li 250 - 250 Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lef Li 250 - 315 Session 2 — 3 talks (It minute talk + 4 minute Q&A) Coll®. Compressive Implicit Badar Sean M. Farell, Ashok Veernapharan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax Driven Denoising of Passively-Scattered Thermal Imagery Comor Hashemi, Talahiro Sasaki, James R. Leger Moiré vision A. Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensel Jo, Masahiko Inami John Alimanomor Mortility (International Community Poster and Demo Session) Session 3 — 4 talks (It minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Felian Li, Heng Guo, Hiroski Sanon, Funio Okara, Visuyuki Matsushita Demostring Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Almar Alimanow, MD Baharul Isano, Funio Okara, Visuyuki Matsushita Demostring Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Almar Alimanow, MD Baharul Isano, Funio Okara, Visuyuki Matsushita Demostring Diffusion Probabilistic Model for Ret	9:00 – 9:30	Opening Remarks
Debus Haung, Mingou Dai, Tao Yue, Xuemei Hu	9:30 – 10:30	Session I — 4 talks (II minute talk + 4 minute Q&A)
Dean S. Hazineh, Soon Wel Daniel Lim, Qi Guo, Federico Capasso, Todd Zickler Glare Removal for Astronomical Images with High Local Dynamic Range Max Olivier Van Bastelaer, Heiner Kremer, Valentin Volchkov, Jean-Claude Passy, Bernhard Schölkopf Using Zodiacal Light for Spaceborne Calibration of Polarimetric Imagers Or Avian, Schechner You, Ehud Behar Invited talk: Unraweling Immune Cell Metabolism and Function at Single-cell Resolution Melisas Stale. 1800 - 1830 Coffee Break 1830 - 1830 Keynote 1 - Aki Roberge, NASA Towards Earth 20: Exoplanets and Future Space Telescopes Lunch; Industry Consortium Mentorship Event Afternoon Session Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei II 230 - 235 Session 2 - 3 talks (It minute talk + 4 minute Q&A) Coffee Ongressive Implicit Radar Sean M. Farrell, Ashok Veerarghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax-Driven Denoising of Passively-Scattered Thermal Imagery Moire vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensel (o, Masahko Inami 350 - 4500 Coffee Break Ocoffee Break Coffee Break Session 3 - 4 talks (It minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Ferran Li, Heng Guo, Hiroaki Sanno, Funio Okura, Yasuyuki Masushira Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimano, MD Baharut Islam NeRef: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Zhyu Wang, Wei Yang, Junning Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Senion I. More Yang, Junning Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Senion I. More Yang, Junning Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Senion I. More Yang, Junning Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Cao, Senion Peropective Lunch, Affinity Group Meetings: Group Photo Afternoon Session Invited t		
Max-Olivier Van Bastelaer, Heiner Kremer, Valentin Volchkov, Jean-Claide Passy, Bernhard Schölkopf Using Zodiacal Light for Spaceborne Calibration of Polarimetric Imagers Or Avitan, Schechner You, Ehud Behar Invited talk: Unraweling Immune Cell Metabolism and Function at Single-cell Resolution Melisas Sakal II30 - II30 Coffee Break II30 - II30 Keynote 1 - Aki Roberge, NASA Towards Earth 2:0: Exoplanets and Future Space Telescopes ILunch; Industry Consortium Mentorship Event Afternoon Session Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li 230 - 230 Imited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li 230 - 315 Session 2 - 3 talks (It minute talk + 4 minute Q&A) ColR: Compressive Implicit Radar Sean M. Farrell, Ashoc Vectaraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax-Driven Denoising of Passively-Scattered Thermal Imagery Connor Hasheni, Takahiro Saski, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensei Jo, Masahiko Inami 315 - 330 Poster and Demo Spotlights I Coffice Break 400 - 530 Poster and Demo Session I Sound Demo Session I Session 3 - 4 talks (It minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumino Okura, Yasayuki Matsushita Denoising Diffision Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Zyu Wang, Wei Yang, Junning Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Linvited talk: Imaging the Brain at High Spatiotemporal Resolution		
Or Avitan, Schechiner Yoav, Ehud Behar Invited talk: Unraveling Immune Cell Metabolism and Function at Single-cell Resolution Melissa Skala Itsoo - 1130 Coffee Break Reynote 1 - Aki Roberge, NASA Towards Earth 2.0: Exoplanets and Future Space Telescopes Lunch; Industry Consortium Mentorship Event Afternoon Session Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li 200 - 2:30 Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li 250 - 3:15 Session 2 - 3 talks (It minute talk + 4 minute Q&A) ColR: Compressive Implicit Radar Scan M. Farrell, Ashok Vecraraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax: Driven Denoising of Passively-Scattered Thermal Imagery Connor Hashemi, Takahiro Sasaki, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensei Jo, Masahiko Inami 315 - 330 Poster and Demo Spotlights 1 330 - 4:00 Coffee Break 400 - 5:30 Poster and Demo Session 1 Community Poster and Demo Session Evening Cocktail Event Saturday, July 29 - Morning Session Session 3 - 4 talks (It minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasiyuki Mastushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeRef: Neural Refractive Field for Fluid Surface Reconstruction and Renderting Ziyu Wang, Wei Yang, Jamming Cao, Qiang Hu, Lan Na, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Imaging the Brain at High Spatiotemporal Resolution Afternoon Session		
Melissa Skala 1150 - 1130 Coffee Break 1150 - 1130 Keynote : Aki Roberge, NASA Towards Earth 2.0: Exoplanets and Future Space Telescopes		
12:30 - 12:30 Keynote 1 - Aki Roberge, NASA Towards Earth 20: Exoplanets and Future Space Telescopes	10:30 – 11:00	
Towards Earth 2.0: Exoplanets and Future Space Telescopes	II:00 – II:30	Coffee Break
Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li Session 2 — 3 talks (It minute talk + 4 minute Q&A) ColR: Compressive Implicit Radar Sean M. Farrell, Ashok Veeraraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax-Driven Denoising of Passively-Scattered Thermal Imagery Connor Hashemi, Takahiro Sasaki, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensel Jo, Masahiko Inami 315 – 330 Poster and Demo Spotlights I Coffee Break 400 – 530 Poster and Demo Spotlights I Saturday, July 29 - Morning Session Session 3 — 4 talks (It minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Oktura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Zhu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings: Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	II:30 – I2:30	
Invited talk: New Generation Photoacoustic Imaging: From Benchtop Wholebody Imagers to Wearable Sensors Lei Li Li Session 2 - 3 talks (II minute talk + 4 minute Q&A)	12:30-2:00	Lunch; Industry Consortium Mentorship Event
Lei Li Session 2 — 3 talks (II minute talk + 4 minute Q&A) ColR: Compressive Implicit Radar Sean M. Farrell, Ashok Veeraraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax-Driven Denoising of Passively-Scattered Thermal Imagery Connor Hashemi, Takahiro Sasaki, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensei Jo, Masahiko Inami 315 – 330 Poster and Demo Spotlights 1 330 – 400 Coffee Break 400 – 530 Poster and Demo Session 1 Community Poster and Demo Session Evening Cocktail Event Saturday, July 29 - Morning Session 9:30 – 6:30 Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Almanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I, Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias 10:30 – 11:30 Coffee Break 11:30 – 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution		Afternoon Session
CoIR: Compressive Implicit Radar Sean M. Farrell, Ashok Veeraraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallas-Driven Denoising of Passively-Scattered Thermal Imagery Connor Hashemi, Takahiro Sasaki, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensei Jo. Masahiko Inami 315 – 330 Poster and Demo Spotlights 1 330 – 400 Coffee Break 400 – 530 Poster and Demo Session 1 550 – 630 Community Poster and Demo Session Evening Cocktail Event Saturday, July 29 - Morning Session 9:30 – 10:30 Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Almanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Igiesias 10:30 – 11:00 Invited talk: Color semantics for visual communication Karen Schloss Louch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	2:00 – 2:30	
Sean M. Farrell, Ashok Veeraraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan Parallax-Driven Denoising of Passively-Scattered Thermal Imagery Connor Hashemi, Takahiro Sasaki, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensei Jo, Masahiko Inami 315 – 330 Poster and Demo Spotlights I 330 – 400 Coffee Break Poster and Demo Session I 530 – 630 Community Poster and Demo Session Evening Cocktail Event Saturday, July 29 - Morning Session 9:30 – 10:30 Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Karen Schloss Linoo - 11:00 Linvited talk: Color semantics for visual communication Karen Schloss Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	2:30 – 3:15	Session 2 — 3 talks (II minute talk + 4 minute Q&A)
Connor Hashemi, Takahiro Sasaki, James R. Leger Moiré vision: A Signal Processing Technology Beyond Pixels using the Moiré Coordinate Kensei Jo, Masahiko Inami 3i5 - 3i30 Poster and Demo Spotlights 1 3i30 - 4000 Coffee Break 4000 - 5i30 Poster and Demo Session 1 5i30 - 6i30 Community Poster and Demo Session Evening Cocktail Event Saturday, July 29 - Morning Session 6i30 - 8i00 Evening Cocktail Event Saturday, July 29 - Morning Session 5i30 - 10i30 Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junning Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias 10:30 - 11:00 Invited talk: Color semantics for visual communication Karen Schloss Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution		CoIR: Compressive Implicit Radar Sean M. Farrell, Ashok Veeraraghavan, Ashutosh Sabharwal, Nathaniel Raymondi, Vivek Boominathan
Rensei Jo, Masahiko Inami San John San		
Coffee Break		
Poster and Demo Session	3:15 – 3:30	Poster and Demo Spotlights 1
Evening Cocktail Event	3:30 – 4:00	Coffee Break
Evening Cocktail Event Saturday, July 29 - Morning Session 9:30 - 10:30 Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias 10:30 - 11:00 Invited talk: Color semantics for visual communication Karen Schloss 11:00 - 11:30 Coffee Break 11:30 - 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective 12:30 - 2:00 Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	4:00 – 5:30	Poster and Demo Session I
Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias 10:30 - 11:00 Invited talk: Color semantics for visual communication Karen Schloss Licoo - 11:30 Coffee Break 11:30 - 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	5:30 - 6:30	Community Poster and Demo Session
Session 3 — 4 talks (II minute talk + 4 minute Q&A) Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Karen Schloss Coffee Break Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	6:30 – 8:00	Evening Cocktail Event
Learn to Synthesize Photorealistic Dual-pixel Images from RGBD frames Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias 10:30 - 11:00 Invited talk: Color semantics for visual communication Karen Schloss 11:00 - 11:30 Coffee Break 11:30 - 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective 12:30 - 2:00 Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution		Saturday, July 29 - Morning Session
Feiran Li, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Karen Schloss Coffee Break Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution	9:30-10:30	Session 3 — 4 talks (II minute talk + 4 minute Q&A)
Alnur Alimanov, MD Baharul Islam NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Karen Schloss II:00 - II:30 Coffee Break II:30 - I2:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution		
Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu Supervision by Denoising Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Karen Schloss Coffee Break Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution		Denoising Diffusion Probabilistic Model for Retinal Image Generation and Segmentation Alnur Alimanov, MD Baharul Islam
Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio Iglesias Invited talk: Color semantics for visual communication Karen Schloss Coffee Break II:30 - 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session Invited talk: Imaging the Brain at High Spatiotemporal Resolution		NeReF: Neural Refractive Field for Fluid Surface Reconstruction and Rendering Ziyu Wang, Wei Yang, Junming Cao, Qiang Hu, Lan Xu, Junqing Yu, Jingyi Yu
Karen Schloss II:00 - II:30 Coffee Break II:30 - 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective 12:30 - 2:00 Lunch; Affinity Group Meetings; Group Photo Afternoon Session 2:00 - 2:30 Invited talk: Imaging the Brain at High Spatiotemporal Resolution		Sean I. Young, Adrian V. Dalca, Enzo Ferrante, Polina Golland, Christopher Metzler, Bruce Fischl, Juan Eugenio
II:30 – 12:30 Keynote 2 - Aaron Hertzmann, Adobe A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session 2:00 - 2:30 Invited talk: Imaging the Brain at High Spatiotemporal Resolution	10:30 - 11:00	
A Perceptual Theory of Perspective Lunch; Affinity Group Meetings; Group Photo Afternoon Session 2:00 - 2:30 Invited talk: Imaging the Brain at High Spatiotemporal Resolution	II:00 - II:30	Coffee Break
Afternoon Session 2:00 - 2:30 Invited talk: Imaging the Brain at High Spatiotemporal Resolution	II:30 – I2:30	
2:00 - 2:30 Invited talk: Imaging the Brain at High Spatiotemporal Resolution	12:30 - 2:00	Lunch; Affinity Group Meetings; Group Photo
		Afternoon Session
	2:00 - 2:30	

2:30 - 3:30	Session 4 — 4 talks (II minute talk + 4 minute Q&A)
	Spectral Sensitivity Estimation Without a Camera Grigory Solomatov, Derya Akkaynak
	A Compact BRDF Scanner with Multi-conjugate Optics Kensuke Uchida, Hajime Nagahara, Yasuyuki Matsushita
	Measured Albedo in the Wild: Filling the Gap in Intrinsics Evaluation Jiaye Wu, Sanjoy Chowdhury, Hariharmano Shanmugaraja, David Jacobs, Soumyadip Sengupta
	Compact Self-adaptive Coding for Spectral Compressive Sensing Zhan Shi, Hao Ye, Tao Lv, Yibo Wang, Xun Cao
3:30 - 4:00	Industry consortium talk: Computational Image Sensing at Sony Tomoo Mitsunaga
4:00 - 4:15	Poster and Demo Spotlights 2
4:15 - 4:45	Coffee Break
4:45 - 6:15	Poster and Demo Session 2
6:15 - 10:00	Reception
	Sunday, July 30 - Morning Session
9:00 - 9:45	Session 5 — 3 talks (II minute talk + 4 minute Q&A)
	Near-light Photometric Stereo with Symmetric Lights Lilika Makabe, Heng Guo, Hiroaki Santo, Fumio Okura, Yasuyuki Matsushita
	Aberration-Aware Depth-from-Focus Xinge Yang, Qiang Fu, Mohamed Elhoseiny, Wolfgang Heidrich
	Count-Free Single-Photon 3D Imaging with Race Logic Atul N Ingle, David Maier
9:45 - 10:15	Invited talk: Welcome to the Underwater Micro World: The Art and Science of Underwater Microscopy Jules Jaffe
10:15 – 10:45	Coffee Break
10:45 – II:15	Invited talk: New Material and Devices for Imaging Hooman Mohseini
11:15 – 12:15	Keynote 3 - Eric Fossum, Dartmouth Quanta Image Sensors and Remaining Challenges
12:15 – 12:45	Lunch; Industry Consortium Mentorship Event
12:45 – 2:00	Lunch (served)
	Afternoon Session
2:00 – 2:45	Session 6 — 3 talks (II minute talk + 4 minute Q&A)
	Isolating Signals in Passive Non-Line-of-Sight Imaging using Spectral Content Connor Hashemi, Rafael Avelar, James R. Leger
	Fast Non-line-of-sight Imaging with Non-planar Relay Surfaces Chaoying Gu, Talha Sultan, Khadijeh Masumnia-bisheh, Laura Waller, Andreas Velten
	Neural Reconstruction through Scattering Media with Forward and Backward Losses Yuehan Wang, Siyuan Shen, Yanhua Yu, Su'an Xia, Xingyue Peng, Ruiqian Li, Shiying Li, Jingyi Yu
2:45 – 3:15	Invited talk: Towards the Next Generation of Smartphone Cameras Jasper Tan
3:15 – 4:00	Session 7 — 3 talks (II minute talk + 4 minute Q&A)
	Programmable Spectral Filter Arrays using Phase Spatial Light Modulators Vishwanath Saragadam, Vijay Rengarajan, Ryuichi Tadano, Tuo Zhuong, Hideki Oyaizu, Jun Murayama, Aswin Sankaranarayanan
	Scattering-aware Holographic PIV with Physics-based Motion Priors Miao Qi, Wolfgang Heidrich
	Stochastic Light Field Holography Florian A Schiffers, Praneeth Chakravarthula, Nathan Matsuda, Grace Kuo, Ethan Tseng, Douglas Lanman, Felix Heide, Oliver Cossairt
4:00 - 4:30	Closing Remarks