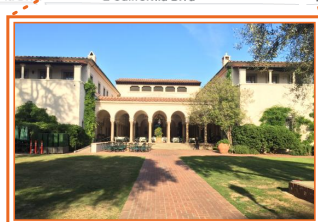


Beckman Courtyard



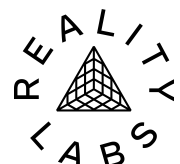
Beckman Auditorium
"The Wedding Cake"



The Athenaeum



Event Sponsors



IEEE International Conference on
Computational Photography

Caltech, Pasadena, CA



Program

Monday, August 1st - Morning Session			
9:00 - 9:30	Opening remarks		DIY hyperspectral imaging via polarization-induced spectral filters <i>Katherine Salesin, Dario R Seyb, Sarah Friday, Wojciech Jarosz</i>
9:30 - 10:30	Papers Session 1: 4 talks (15 minute each)		Wide-Angle Light Fields <i>Michael De Zeeuw, Aswin Sankaranarayanan</i>
	Learning Spatially Varying Pixel Exposures for Motion Deblurring <i>Cindy Nguyen, Julien N. P. Martel, Gordon Wetzstein</i>	15:15 - 15:30	Poster spotlights 2
	MantissaCam: Learning Snapshot High-dynamic-range Imaging with Perceptually-based In-pixel Irradiance Encoding <i>Haley M So, Julien N. P. Martel, Piotr Dudek, Gordon Wetzstein</i>	15:30 - 16:00	Coffee break
	Rethinking Learning-based Demosaicing, Denoising, and Super-Resolution Pipeline <i>Guocheng Qian, Yuanhao Wang, Jinjin Gu, Chao Dong, Wolfgang Heidrich, Bernard Ghanem, Jimmy Ren</i>	16:00 - 18:30	Poster session 2
	Physics vs. Learned Sids: Rethinking Camera and Algorithm Design for Task-Specific Imaging <i>Tzofi M Klinghoffer, Siddharth Somasundaram, Kushagra Tiwary, Ramesh Raskar</i>	18:30	Reception
10:30 - 11:00	Invited talk: Yi Xue	Wednesday, August 3rd - Morning Session	
11:00 - 11:30	Coffee break	9:00 - 9:30	Invited talk: Lihong Wang
11:30 - 12:30	Keynote 1: Shree Nayar	9:30 - 10:30	Papers Session 5: 4 talks (15 minute each)
12:30 - 14:00	Lunch break		Computational Imaging using Ultrasonically-Sculpted Virtual Lenses <i>Hossein Baktash, Yash Belhe, Matteo Scopelliti, Yi Hua, Aswin Sankaranarayanan, Maysamreza Chamanzar</i>
Afternoon Session			Dynamic structured illumination microscopy with a neural space-time model <i>Ruiming Cao, Fanglin Linda Liu, Li-Hao Yeh., Laura Waller</i>
14:00 - 14:30	Invited talk: Aydogan Ozcan		Tensorial tomographic differential phase-contrast microscopy <i>Shiqi Xu, Xiang Dai, Xi Yang, Kevin Zhou, Kanghyun Kim, Vinayak Pathak, Carolyn Glass, Roarke Horstmeyer</i>
14:30 - 15:15	Papers Session 2: 3 talks (15 minute each)		Style Transfer with Bio-realistic Appearance Manipulation for Skin-tone Inclusive rPPG <i>Yunhao Ba, Zhen Wang, Doruk Karinca, Oyku Deniz Bozkurt, Achuta Kadambi</i>
	Analyzing phase masks for wide etendue holographic displays <i>Sagi Monin, Aswin Sankaranarayanan, Anat Levin</i>	10:30 - 11:00	Invited talk: Rajesh Menon
	Wide etendue displays with a logarithmic tilting cascade <i>Sagi Monin, Aswin Sankaranarayanan, Anat Levin</i>	11:00 - 11:30	Coffee break
	Towards Mixed-State Coded Diffraction Imaging <i>Benjamin Attal, Matthew O'Toole</i>	11:30 - 12:30	Keynote 3: Joyce Farrell
15:15 - 15:30	Poster spotlights 1	12:30 - 14:00	Lunch break
15:30 - 16:00	Coffee break	Afternoon Session	
16:00 - 18:15	Poster session 1	14:00 - 14:30	Invited talk: Kevin Hand
18:30	Women@ICCP2022	14:30 - 15:30	Papers Session 6: 4 talks (15 minute each)
Tuesday, August 2nd - Morning Session			Robust Scene Inference under Dual Image Corruptions <i>Bhavya Goyal, Jean-Francois Lalonde, Yin Li, Mohit Gupta</i>
9:00 - 9:30	Invited talk: Wenzhen Yuan		Time-of-Day Neural Style Transfer for Architectural Photographs <i>Yingshu Chen, Tuan-Anh Vu, Ka-Chun Shum, Binh-Son Hua, Sai-Kit Yeung</i>
9:30 - 10:30	Papers Session 3: 4 talks (15 minute each)		MPS-NeRF: Generalizable 3D Human Rendering from Multiview Images <i>Xiangjun Gao, Jiaolong Yang, Jongyoo Kim, Sida Peng, Zicheng Liu, Xin Tong</i>
	A Two-Level Auto-Encoder for Distributed Stereo Coding <i>Yuval Harel, Shai Avidan</i>		Differentiable Appearance Acquisition from a Flash/No-flash RGB-D Pair <i>Hyun Jin Ku, Hyunho Ha, Joo-Ho Lee, Dahyun Kang, James Tompkin, Min H. Kim</i>
	First Arrival Differential LiDAR <i>Tianyi Zhang, Akshat Dave, Ashok Veeraraghavan, Mel J White, Shahaboddin Ghajari, Alyosha C Molnar, Ankit Raghuram</i>	15:30 - 16:00	Coffee break
	PS2F: Polarized Spiral PSF for single-shot 3D sensing <i>Bhargav Ghanekar, Vishwanath Saragadam, Dushyant Mehra, Anna-Karin Gustavsson, Aswin Sankaranarayanan, Ashok Veeraraghavan</i>	16:00 - 16:30	Invited talk: Sara Beery
	Double Your Corners, Double Your Fun: The Doorway Camera <i>William Kraska, Sheila Seidel, Charles Saunders, Robinson Czajkowski, Christopher Yu, John Murray-Bruce, Vivek K Goyal</i>	16:30 - 17:00	Papers Session 7: 2 talks (15 minute each) #17: #61:
10:30 - 11:00	Invited talk: Jianwei (John) Miao		HiddenPose: Non-line-of-sight 3D Human Pose Estimation <i>Ping Liu, Yanhua Yu, Zhengqing Pan, Xingyue Peng, Ruiqian Li, wang yh, Shiyong Li, Jingyi Yu</i>
11:00 - 11:30	Coffee break		Physics to the Rescue: A Physically Inspired Deep Model for Rapid Non-line-of-sight Imaging <i>Fangzhou Mu, SICHENG MO, Jiayong Peng, Xiaochun Liu, Ji Hyun Nam, Siddeshwar Raghavan, Andreas Velten, Yin Li</i>
11:30 - 12:30	Keynote 2: Changhuei Yang	17:00 - 17:30	Invited talk: David Van Valen
12:30 - 12:45	Group Photo	17:30 - 18:00	Closing remarks
12:45 - 14:00	Lunch break	<p>All lectures will be held in the Beckman Auditorium ("The Wedding Cake") on Caltech campus. Poster sessions will take place outside the Beckman Auditorium. Lunch on Monday and Tuesday will be served in the Beckman Institute Courtyard. Lunch on Wednesday is on your own. Reception on Tuesday evening will be held at The Athenaeum.</p>	
Afternoon Session			
14:00 - 14:30	Invited talk: Marie Ygouf		
14:30 - 15:15	Papers Session 4: 3 talks (15 minute each)		
	Variable Imaging Projection Cloud Scattering Tomography <i>Roi Ronen, Schechner Yoav, Vadim Holodovsky</i>		