

Information Photonics 2017 Program at a Glance

19-Apr-17		
13:15	Opening remark	
	IP-19PM-1 [Special Session] Photonic Intelligence	
13:30	IP-19PM-1-1 (Invited)	Inagaki, NTT A coherent Ising machine based on networked optical parametric oscillators for optimization problems
13:45		
14:00	IP-19PM-1-2 (Invited)	Hamerly, US/NII Solving Ising Problems with All-to-All Network of Time-Multiplexed Optical Parametric Oscillators
14:15		
14:30	IP-19PM-1-3 (Invited)	Kanno, Fukuoka Performance improvement of reservoir computing by using two temporal outputs in mutually coupled optoelectronic system
14:45		
15:00	IP-19PM-1-4 (Invited)	Hori, Yamanashi Structure and Fundamental Processes of Photonic Intelligence
15:15		
15:30	BREAK	
	IP-19PM-2: Optical Signal Processing I	
15:45	IP-19PM-2-1	Suzuki, UEC Widely applicable coding method for optical correlators based on an autoencoder
16:00	IP-19PM-2-2	Sakai, Hamamatsu Improvement of response time in dual-wavelength spatial light modulators via overdrive method
16:15	IP-19PM-2-3	Horisaki, Osaka Reference- and lens-free single-pixel holographic camera
16:30	IP-19PM-2-4	Yakovleva, Russia Two-Parameter Analysis of the Signal's Envelope as a Theoretical Basis for a New Trend in Optical Phase
16:45	IP-19PM-2-5	Komuro, Wakayama Optimization of Polynomial Order Based on Residuals of Interpolation in Higher-Order Transport of Intensity Phase
17:00	IP-19PM-2-6	Vera, Chile Point Spread Function Engineering for Snapshot Compressive Imaging
17:15	IP-19PM-2-7	Ran, China An aperture-division full-Stokes vector polarimetric camera and its polarimetric imaging applications
20-Apr-17		
IP-20AM-1: Optical Signal Processing II		
9:00	IP-20AM-1-1	Nitta, Kobe Single pixel imaging with 1-D Hadamard transform and frequency multiplexing
9:15	IP-20AM-1-2	Choi, Korea Depth extraction from image contrast using retroreflective structure
9:30	IP-20AM-1-3	Tan, China Single-shot fast phase retrieval in the holographic data storage
9:45	IP-20AM-1-4	Kim, Korea Elimination method for the zero-order term in off-axis digital holography utilizing spatial-carrier frequency
10:00	IP-20AM-1-5	Hirayama, Chiba Inkjet-printed 3D Structure Projecting Multiple Full-Color Images
10:15	IP-20AM-1-6	Golub, Israel Design and investigation of computer-generated Fourier holograms of colored 3D objects
10:30	BREAK	
10:45		
	IP-20AM-2: Information Photonics Tutorial	
11:00	IP-20AM-2-1	Mitsuo Takeda, Utsunomiya University Marriage between Holography and Statistical Optics for Unconventional Imaging: Coherence Holography and Holographic Correloscopy
11:15		
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	IP-20PM-1: Imaging and Holography	
13:30	IP-20PM-1-1	Hayasaki, Utsunomiya Image-based link between frequency comb profilometer and optical interferometer
13:45	IP-20PM-1-2	Chen, China Exposure Fusion based on Luminance and Contrast Evaluation
14:00	IP-20PM-1-3	WIDIAJA, Thailand Holographic Particle Sizing by Using Wigner-Ville Distribution of Flipped and Replicated Holograms
14:15	IP-20PM-1-4	Kurokawa, Utsunomiya Multi-Layered Aerial LED Display by Double-Stage Polarized Aerial Imaging by Retro-Reflection
14:30	IP-20PM-1-5	Tan, China Highly concentration phenanthrenequinone doped poly (MMA-Co-BzMA) for thick polarization holography
14:45	IP-20PM-1-6	Kim, Korea Full-color polygon based computer holography for real objects captured by a depth camera
15:00	BREAK	
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	IP-20PM-2 [Special Session] Computational complex-amptude imaging	
15:30	IP-20PM-2-1 (Invited)	Sjodahl, Sweden Quantitative single-shot phase imaging for phase inspection
15:45		
16:00	IP-20PM-2-2 (Invited)	Luo, Taiwan Three-dimensional pupil holographic imaging
16:15		
16:30	IP-20PM-2-3 (Invited)	Park, Korea A single pixel imaging for digital holography
16:45		
17:00	IP-20PM-2-4 (Invited)	Tajahuerce, Spain High-speed single-pixel digital holography with phase-structured illumination
17:15		
17:30	IP-20PM-2-5 (Invited)	Situ, China Cyphertext-only attack to double random-phase encoding: Experimental demonstrations
17:45		
21-Apr-17		
IP-21AM-1 [Special Session] Holography		
9:00	IP-21AM-1-1 (Invited)	Liu, Taiwan Recent Progress in Optical Scanning Holography
9:15		
9:30	IP-21AM-1-2 (Invited)	Huang, China Applications of geometric metasurface in holography
9:45		
10:00	IP-21AM-1-3 (Invited)	Park, Korea Holographic and Light Field Head Mounted Displays and Their Contents Synthesis
10:15		
10:30	BREAK	
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	IP-21AM-2: Holography	
11:00	IP-21AM-2-1	Igarashi, TITECH 3D Physically Based Rendering of Computer Generated Holograms by Orthographic Ray-Sampling
11:15	IP-21AM-2-2	Shimomura, Osaka Optical fabrication of DNA hydrogel using holographic pattern
13:30	INFORMATION PHOTONICS POSTER SESSION	
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14:45	BREAK	
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	IP-21PM-2: Imaging and Display	
15:30	IP-21PM-2-1	IWANE, Nikon About Resolution of refocused image and generated 3D image from data acquired by light-field camera
15:45	IP-21PM-2-2	Marinova, Taiwan Graphene based LC devices for near infrared image processing
16:00	IP-21PM-2-3	Kim, Korea Analysis of three-dimensional screen composed of lens array and retroreflector sheet and its implementation with projection-type
16:15	IP-21PM-2-4	Kumagai, Utsunomiya Holographic accesses for volumetric bubble display
16:30	Award & closing remark	