2021 OSA Imaging and Applied Optics Congress and 2021 OSA Optical Sensors and Sensing Congress

19-23 July 2021

OSA Virtual Event – Pacific Daylight Time (UTC - 07:00)

Agenda of Sessions — Monday, 19 July

Pacific Daylight Time (PDT, UTC - 07:00)	Applied Industrial Spectroscopy	Computational Optical Sensing and Imaging	Digital Holography and Three-Dimensional Imaging	Fourier Transform Spectroscopy	Hyperspectral Imaging and Sounding of the Environment	Optical Sensors		Propagation Through and Characterization of Atmospheric and Oceanic Phenomena
03:00–05:00		CM1A • Computational Microscopy I	DM1B • Advances in Digital Holographic Techniques I					
06:00–08:00	AM2D • Spectral Sensors in Manufacturing Processes I	CM2E • Compressive Sensing I		FM2F • New Developments in Interferometry: Applications and Design	HM2B • Remote Sensing of Atmospheric Composition (begins at 05:45 PDT)	SM2A • Optical Fiber Sensors I	SM2C • Spectroscopic Chemical and Biological Sensing	PM2G • Oceaniac Studies (ends at 06:45) PM2H • Characterizing Optical Turbulence (begins at 06:45)
08:00–09:00	Dedicated Exhibit Time							
09:00–10:00	JM3A • Joint Plenary I (Sensing Congress) - Jelena Vuckovic							
10:15–10:45	SpE1 • Meet the Plenary Speaker - Jelena Vuckovic							
11:00–13:00	JM4A • Joint Postdeadline Papers I							
13:00–15:00	AM5D • Sensing in the Geological and Metals Industries		DM5E • Digital Holographic Microscopy I	FM5C • FTS Developments for Far-infrared Astronomical Applications	HM5B • Radiative Transfer Modeling	SM5A • Optical Fiber Sensors II		
15:00–16:00	SpE2 • AIS Panel: Agri-Photonics *(ends at 16:30)* SpE3 • Successfully Navigate an OSA Virtual Meeting							
17:00–19:00	AM6D • Agriphotonics: Spectral Sensors for Food and Farm I	CM6B • Machine Learning for Optical Sensing and Imaging	DM6C • Advances in Digital Holographic Techniques II	DM6E • Polarization Holography and Holographic Tomography				

Technical Sessions are hyperlinked. Click the session title to access the appropriate virtual room.

Key to Conference Abbreviations

Imaging Topicals
3 = 3D Image Acquisition and Display: Technology, Perception and Applications (3D)
C = Computational Optical Sensing and Imaging (COSI)
D = Digital Holography and Three-Dimensional Imaging (DH)
I = Imaging Systems and Applications (IS)
P = Propagation Through and Characterization of Atmospheric and Oceanic Phenomena (pcAOP)

Sensing Topicals
A = Applied Industrial Spectroscopy (AIS)
F = Fourier Transform Spectroscopy (FTS)
H = Hyperspectral Imaging and Sounding of the Environment (HISE)
S = Optical Sensors (Sensors)
E = Optics and Photonics for Sensing the Environment (ES)

Agenda of Sessions — Tuesday, 20 July

Pacific Daylight Time (PDT, UTC -07:00)	3D Image Acquisition and Display: Technology, Perception and Applications	Applied Industrial Spectroscopy	Computational Optical Sensing and Imaging		Digital Holography and Three-Dimensional Imaging		Hyperspectral Imaging and Sounding of the Environment	Imaging Systems and Applications	Joint ES, FTS, Sensors	Optical Sensors			Optics and Photonics for Sensing the Environment	Propagation Through and Characterization of Atmospheric and Oceanic Phenomena
03:00–05:00	3Tu1C • Novel Applications of 3D Imaging							ITu1D • Biomedical Imaging I		STu1A • Optical Fiber Sensors IV	STu1B • Laser I			
06:00–08:00		ATu2D • Agriphotonics: Spectral Sensors for Food and Farm II	CTu2F • Single Pixel Imaging	CTu2H • Ptychography I	DTu2A • Holographic Techniques: 15 Years of DH Meetings		HTu2C • Aquatic Remote Sensing I		JTu2E • Joint Frequency Comb Sensing I	STu2B • Optical Fiber Sensors V				PTu2G • Aerosols and Hydrometeors
08:00–09:00	JTu3A • Joint Plenary II (Sensing Congress) - Paolo Gamba													
09:15–09:45	SpE4 • Meet the Plenary Speaker - Paolo Gamba													
10:00–12:00	3Tu4A • Multidimensional Imaging	ATu4E • Cancelled	CTu4B • Computational Microscopy II						JTu4D • Joint Frequency Comb Sensing II	STu4F • Nanophotonic and Plasmonic Biosensors I	STu4G • Atom-based Sensors	STu4H • Optical Fiber Sensors III		PTu4C • Imaging through Turbulence
12:00–13:00	Dedicated Exhibit Time													
13:00–14:30	JTu5A • Joint Poster Session I													
14:30–15:30	SpE10 • OSA Color Technical Group Coffee Break													
15:00–17:00			CTu6A • Ptychography II		DTu6C • Metrology and Profilometry	DTu6H • Applications of Digital Holography I	HTu6F • Aquatic Remote Sensing II	ITu6B • Algorithms and Detectors for Advanced Imaging	JTu6E • Joint Frequency Comb Sensing III	STu6G • Quantum Materials in the Solid-state			ETu6D • Laser and Lidar Active Sensing	
17:00–18:00	SpE11 • Challenges and Opportunities in Imaging and Metasurfaces													
19:00–21:00					DTu7B • Computer Generated Holograms I		HTu7C • Aquatic Remote Sensing III	ITu7A • Biomedical Imaging II						

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Agenda of Sessions — Wednesday, 21 July

Pacific Daylight Time (PDT, UTC -07:00)	3D Image Acquisition and Display: Technology, Perception and Applications	Applied Industrial Spectroscopy	Computational Optical Sensing and Imaging	Digital Holography and Three-Dimensional Imaging		Fourier Transform Spectroscopy	Hyperspectral Imaging and Sounding of the Environment	Imaging Systems and Applications	Joint FTS and HISE	Joint ES, FTS, Sensors	Optical Sensors		Optics and Photonics for Sensing the Environment	Propagation Through and Characterization of Atmospheric and Oceanic Phenomena
03:00–05:00	JW1A • Joint Postdeadline Papers II													
05:00–06:30	JW2A • Joint Poster Session II													
06:30–08:30	3W3G • 3D Sensing and Imaging	AW3A • Microplastics	CW3B • Imaging in Scattering Media and Speckle Imaging			FW3D • Novel Developments in Laboratory Spectroscopy and Instrument Design	HW3E • Aquatic Remote Sensing IV	IW3H • Novel Imaging Technologies I					EW3C • Remote Sensing of the Atmosphere	PW3F • Beam Propagation: Theory
08:30–10:00	SpE5 • AIS Panel: Microplastics in the Environment: Challenges and Opportunities SpE6 • It's as Easy as Pie?: My Perspective Balancing Career, Family and Society's Expectations (08:00–9:00)													
10:00–12:00			CW4H • Architectures for Optical Imaging II	DW4B • Applications of Digital Holography II	DW4C • Digital Holographic Microscopy II		IW4A • Machine Learning and Imaging I	JW4D • FTS Measurements of Greenhouse Gases	JW4E • Joint Frequency Comb Sensing IV	SW4I • Techniques and Technologies for Quantum Metrology			EW4G • Optical Sensing in Marine Environment and Agriculture	PW4F • Beam Propagation: Simulation
12:00–13:00	Dedicated Exhibit Time													
13:00–15:00	3W5A • 3D Sensing and Reconstruction	AW5G • Applications of Hyperspectral and Multispectral Imaging in Industry I	CW5B • Non-line of Sight Imaging	DW5C • Holographic and Referenceless Methods	DW5E • Computer Generated Holograms II		HW5I • Remote Sensing of Greenhouse Gases			SW5F • Single-photon Detectors and Quantum Imaging	SW5H • Optical Sensors for Medical and Biological Applications		EW5D • Isotopes and Metrology	
15:00–16:00	SpE12 • OSA NonImaging Optical Design Technical Group Coffee Break													
17:00–19:00		AW6E • Spectral Sensors in Manufacturing Processes II	CW6B • Ptychography III	DW6C • 3D Imaging Using Holography and Ranging			HW6A • Terrestrial Remote Sensing	IW6D • High-throughput/Multi-spectral Imaging						

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Agenda of Sessions — Thursday, 22 July

Pacific Daylight Time (PDT, UTC -07:00)	3D Image Acquisition and Display: Technology, Perception and Applications	Applied Industrial Spectroscopy	Computational Optical Sensing and Imaging	Digital Holography and Three-Dimensional Imaging		Digital Holography and Three-Dimensional Imaging Tomography and Radiography Symposium	Fourier Transform Spectroscopy	Hyperspectral Imaging and Sounding of the Environment	Imaging Systems and Applications	Optical Sensors	Optics and Photonics for Sensing the Environment	Propagation Through and Characterization of Atmospheric and Oceanic Phenomena
03:00–05:00				DTh1C • Imaging and Display: 3D Systems and Materials	DTh1D • Deep Learning, Neural Networks and Holographic Processing I				ITh1B • Novel Imaging Technologies II		ETh1A • New Methods and Applications	
06:00–07:00	Dedicated Exhibit Time											
07:00–09:00	3Th2D • 3D Imaging Acquisition and Displays		CTh2F • Compressive Sensing II				FTh2G • Airborne and Ground-based Fourier Transform Spectroscopy Applications	HTh2B • Image Processing I		STh2C • Terehertz Techniques	ETh2A • Integrated Frequency Combs and Sensors	PTh2E • Special Topics
09:00–10:00	JTh3A • Joint Plenary III (Imaging Congress) - Demetri Psaltis											
10:15–10:45	SpE7 • Meet the Plenary Speaker - Demetri Psaltis											
11:00–13:00	3Th4D • 3D Sensing and Displays	ATh4C • Applications of Hyperspectral and Multispectral Imaging in Industry II	CTh4A • Phase Retrieval	CTh4E • Architectures for Optical Imaging I			DTh4F • Advanced Tomographic and Radiographic Imaging	FTh4G • Earth Observation Using Fourier Transform Spectrometry	HTh4H • Image Processing II			ETh4B • Supercontinuum-based Mid-IR Gas Sensors	PTh4I • Free Space Optical Communications
13:00–14:00	SpE13 • OSA Imaging Optical Design Technical Group Coffee Break											
15:00–17:00	3Th5E • 3D Imaging Applications I		CTh5A • Inversion Methods for Computational Imaging		DTh5C • Applications of Digital Holography III		DTh5F • Novel Particle Imaging		ITh5D • Machine Learning and Imaging II	STh5B • Nanophotonic and Plasmonic Biosensors II		
17:00–18:30	JTh6A • Joint Poster Session III											
19:00–21:00	3Th7E • 3D Imaging Applications II		CTh7A • Lensless Imaging		DTh7C • Computer Generated Holograms III		DTh7F • Science from Radiography and Holography		ITh7D • Computational Imaging I	STh7B • Nanophotonic and Plasmonic Biosensors III		

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Agenda of Sessions — Friday, 23 July

Pacific Daylight Time (PDT, UTC - 07:00)	3D Image Acquisition and Display: Technology, Perception and Applications	Computational Optical Sensing and Imaging		Digital Holography and Three-Dimensional Imaging		Digital Holography and Three-Dimensional Imaging Tomography and Radiography Symposium	Hyperspectral Imaging and Sounding of the Environment	Imaging Systems and Applications	Optical Sensors		Propagation Through and Characterization of Atmospheric and Oceanic Phenomena
05:00–07:00								IF1D• Metasurfaces and Optics for Advanced Imaging	SF1A • Laser II	SF1B • Terahertz Sensing	PF1C • Adaptive Optics
08:00–10:00	3F2A • 3D Optical Imaging Applications III	CF2B • Architectures for Optical Signal Processing	CF2E • Computational Methods for System Design	DF2C • Metasurface Holograms	DF2F • Imaging and Displays for AR and VR Applications	DF2G • Tomography and Radiography Applications	HF2I • Sensor Development I	IF2H • Novel Imaging Technologies III	SF2D • Waveguide and Photonic Chemical Sensors		
10:00–11:00	Dedicated Exhibit Time										
11:00–12:00	JF3A • Joint Plenary IV (Imaging Congress) - Abbie Watnik										
12:15–12:45	SpE8 • Meet the Plenary Speaker - Abbie Watnik										
15:00–17:00	3F4A • 3D Information Processing	CF4B • Super-resolution		DF4C • Deep Learning, Neural Networks and Holographic Processing II		DF4F • Novel Diagnostic and Data Analysis	HF4E • Sensor Development II	IF4D • Computational Imaging II			

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