Map for exploring ODF'22

All the oral talks are mapped and classified on Program-committee's authority.
The map includes two plenary talks, 20 invited talks, and 29 contributed papers.
- Box color: Difference among four categories, a special session and a plenary
- Thick frame: Invited talk
- Red character: A key word chosen by Program committee

Lens Design

Plenary2-O3) David J Brady, "Lens design for parallel super cameras"

Plenary3) Masato Shibuya, "Lens Optics Brilliant Forever ---Introducing new theories related to imaging---"

Imaging

For Space

OWP1A-01) Yi-chin Fang, Satellite, "FORMOSAT Satellites, Taiwan and Its Further"

OThA1B-02)Daewook Kim, Telescope, "Modular Cross-Dispersion Spectrometer MOBIUS for Large Binocular Telescope"

OFA2B-01) Olivier Guyon, Telescope, "The Search for Habitable Worlds around Nearby Stars with Large Telescopes and In

OFA2C-01) Mikio Kurita, Mirror measurement, "New profilometer and data stitching algorithm for large mirror measurement "

OFA2B-02) Noboru Ebizuka, Grating, "Novel Transmission Gratings for Space Applications and Astronomical Observations"

OThA1B-01) Richard N. Youngworth, Optics Standards, "Advances and Insights into Fundamental Optics Standards "

OThA1B-03) Oliver Fähnle, Optical fabrication, "Modeling of optical fabrication chains during optics design "

OThA4A-03) Toshiyuki Horiuchi, Reflective optics, "Stereophonic Lithography Using a Parabolic Mirror Projection System and One-sided Illumination"

OWP1A-02) Hiroshi Ohno, neural network, "Gradient-index mapping method using neural network"

OWP1A-03) Guillaume Druart, Freeform surface, "Freeform for visible and thermal infrared ap

OWP1A-05) Marcel Prochnau, Industry4.0, "Concept for Enabling Industry 4.0 in the Context of D Sy

OThA1B-06) Mahito Negishi, Alignment, "Development of high-speed and high-precision alignment technology using the 3D chart"

Computational Imaging

OThP4B-04) Vijayakumar Anand, Computational imaging, "Extraordinary computational imaging technologies with ordinary opt

OThP4B-02) Shoma Kataoka, Ghost imaging, "Ghost Imaging with Complementary Correlation Calculations Using Deep Learning"

OFA3A-02) Yasuhito Hashiba, Coded exposure, "Coded Exposure Imaging System for Crack In

OFA3A-03)Keita Yamaguchi, Lensless, "Phase Modulation Fresnel Zone Aperture for Image R L

OThP4B-05) Yifeng Shao, EUV, "Auto-differentiation based Computational Lensless Imaging for EUV metrology"

For Industry

For Automobile

IWPK OWP-02) Guillaume Druart, IR-Camera, "Review of the development of infrared cameras for automotive applications in the

IWPK OWP-04) Alfredo Rueda, LiDAR, "Long range automotive FMCW LiDAR with solid state scanning"

OFP3B-04) Shigeru Takushima, 3D measurement, "In-process Height Displacement Measurement System for 5-axis Process Control of Laser Wire Deposition"

Display

OThP2A-01) Hakan Ürey, Holographic display, "Computational Holographic Displays and Applications"

OFA3A-04) Zhenwei Yao, Eye tracking, "An Eye Tracking Method to Extend the Viewing Zone in Multiview 3D Displays"

OThP2A-02) Takumi Sakamoto, Aerial display, "Virtual Image Suppression in Aerial Display Using Volume HOE and DCRA"

Head Mount Display

OFP3B-01) Bernard Kress, AR, "Hardware challenges for implementing metaverse-compatible use cases on smart

OFP3B-02) Takuma Kuno, HMD, "Two-dimensional Beam Splitter Array Waveguide for High Luminance and Large Eye-box Head

OFP3B-03) Myeong-Ho Choi, AR "Optical see-through near-eye display for augmented reality with focus cue support"

Color

OThP4B-01) Liangcai Cao, Colormeter, "Ray files reconstruction based on the computational photometric

OWP1A-04) Shuji Ono, Multispectral, "Snapshot multispectral imaging using a pixel-wise color polarization image

OFP3B-05) Laura Arévalo, Spectroscopy, "Bimodal Vibrational Spectroscopy for Simultaneously Operating Raman and FTIR"

For Life Sciences

Special Session

OThA1B-04) Tatsuro Otaki, Microscopy, "Apodized Phase Contrast Microscopy Reveals Motion of Cellular Organelles"

OFA3A-01) Masahito Yamanaka, Deep tissue imaging. "Deep tissue high-resolution optical imaging in the third near infrared window"

OFA2B-03) Anh Nguyet Thi Nguyen, Raman spectroscopy, "DNA detection by SERS on InGaN quantum wells decorated with Al nanoparticles"

OThP4B-03) Keita Hayashi, Fluorescence tag, "Experimental Verification of Fluorescence Tags Using FRET Networks Responding to Molecular Inputs"

OFA3A-05) Tomoya Kitazaki, Blood glucose sensing, "Detection of Glucose-Induced Emission Spectra Based on Mid-Infrared Passive Spectroscopic Imaging for

OFPSSA-01) Aydogan Ozcan, Computational Microscopy, "Deep Learning-enabled Computational Microscopy and Sensing"

OFPSSA-02) Naoshi Kondo, Sensing for Food, "Optical sensing technologies for sustainable food production"

OFPSSA-03) Rung-Ywan Tsai, Optical pickup, "Versatile Applications of Laser Scanning Based on the Optical Pickup Head Technology"

OFPSSB-01) Kaoru Katoh, Microscope, "Observation of Fine Structures of the Cells with Optical Microscopes"

OFPSSB-02) George C. Cardoso, Optical Sensing, "Low-cost optical sensing applied to life sciences"

Optical Device

Meta Surface

OThA4A-01) Kentaro Iwami, Metasurface, "Dielectric metasurfaces for holography and focusing at visible wavelengths "

OThA4A-02) Ming Lun Tseng, Metalens, "Vacuum Ultraviolet Light-Generating Metalens"

OThA1B-05) Anh Igarashi, Microring resonator, "Si-microring resonator with sidewall nano-grating structures for high-Q resonance modes"

Lightwave Circuit

OThP2A-03) Hideaki Gomi, Lightwave circuit, "Planar Lightwave Circuit Digital H V

OThP2A-04) Kenta Hayashi, Lightwave circuit, "Fast Phase-shift Control Method for a High-speed P H

OThP2A-05) Quan-Hsiang Tseng, Lightwave circuit, "Integrated Broadband Tunable Electro-Optic Switch in Lithium Niobate Waveguide Circuits"

OFA2C-03) Ryusei Momosaki, Liquid crystal. "Fabrication of polarization diffraction element by utilizing photoalignable polymer liquid crystal"

OThA4A-04) Ching-Cherng Sun, White LED, "Enhancement of lighting quality for the product of phosphor converted white light emitting diodes"

OThP2A-06) Kei Maruyama, Birefringence, "Optical birefringence arrangements using molecular diffusions under photopolymerization"

OFA2C-02) Yeh-Wei Yu, Interferometer, "Double-Frequency-Grating Phase Shearing Interferometer used in the Holographic Data Storage"