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Holography for Display: From AR to HUD to 3D

Tuesday, June 12, 2018 1:00 PM - 2:00 PM EDT

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About This Webinar

This webinar will discuss the technology of holographic optical elements and their use in display systems where the size and weight of optics must be constrained.

While a true holographic display has yet to become a reality, holography is now being used in a variety of display technologies, from augmented reality to head-up and 3D display. Diffractive elements - which are a type of hologram - can be used in place of bulky and heavy optics, such as lenses, prisms, and mirrors.

Because holograms have the advantage of being thin and light, they are finding application in the fields of augmented reality and head-up display, where constraints on the size and weight of the optics exist. Holograms can also be used for integral imaging-based 3D display, lensless projection, and lidar beam steering.

Professor Pierre-Alexandre Blanche will discuss the application of holography in all of these areas and the technological advantages of holography over other techniques.

About the presenter:

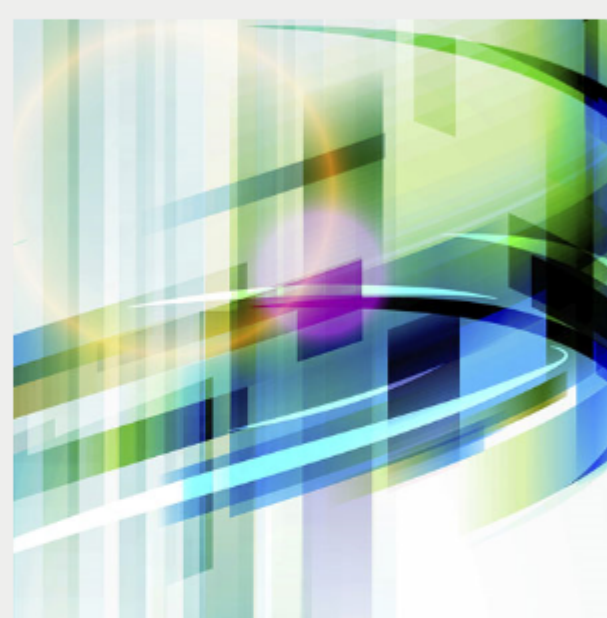
Pierre-Alexandre Blanche is research professor of optics at the University of Arizona's College of Optical Sciences. Before joining the University of Arizona in 2006, he was a space instrumentation specialist at the Centre Spatial de Liège, University of Liège (Belgium) from 1999 to 2006, where he worked on the design of space instruments. He received his Ph.D. in physics in the field of nonlinear optics and holography from the University of Liège in 1999, and his bachelor of science degree from the University of Liège in 1994. In Belgium, he co-founded a company for manufacturing large-volume phase gratings for the optics and aerospace industries. He is the author of more than 50 papers on optics and holography and has contributed chapters on holography to numerous books, including the Handbook of Optical Engineering, 2nd edition. He holds nine patents.

Blanche and his team recently used holography to improve head-up displays that overlay images onto the windshields of cars and aircraft. His research interests include diffraction optics, 3D display, nonlinear, and photonic materials.

Who should attend:

Optics engineers, designers, researchers, educators, and students who are interested in learning more about the technology and application of AR, HUD, and 3D holographic displays. Anyone who is interested in advances in optical displays will gain a better understanding of this field of research by attending this presentation.

This webinar is sponsored by RPMC Lasers Inc., the leading laser distributor in North America and by UnikLasers Ltd., a leading manufacturer of single frequency DPSS lasers, and by Radiant Vision Systems, a leading provider of advanced imaging systems.



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Time: 1:00 PM - 2:00 PM EDT

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