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## Compact Metadevices for Flat Optical Components

Wednesday, November 07, 2018 1:00 PM - 2:00 PM EST

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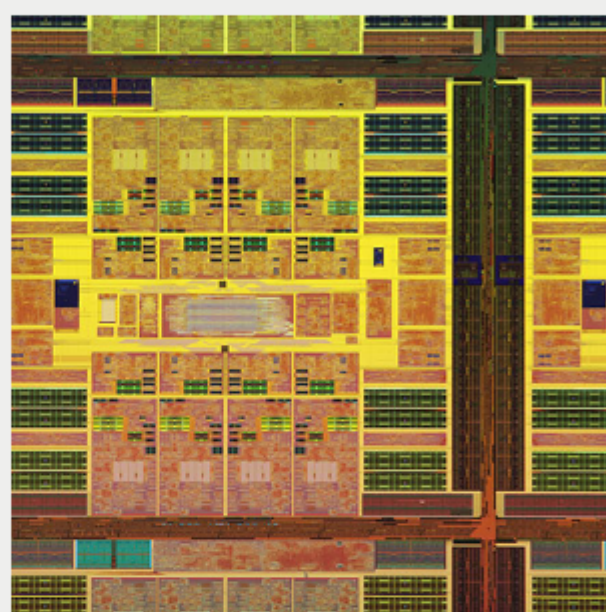
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### About This Webinar

This webinar will discuss inverse-design methods for creating compact metadevices and the use of additive manufacturing for making thin optical components. Inverse-design is a new paradigm that enables engineers to tap into vast parameter space for designing novel photonic and optical devices, including compact metadevices. Inverse-design approaches can be used to design ultracompact on-chip and free-space optical components for a broad range of applications.

Presenter Koray Aydin will describe his lab's platform for combining inverse electromagnetic design algorithms with additive manufacturing to fabricate millimeter-wave metadevices. Aydin will further show how this platform can be applied to the design and fabrication of electromagnetic and photonic metadevices spanning microwave to optical frequencies. Although Aydin's lab designs metadevices in the millimeter-wave region, similar devices can be designed to operate in any wavelength from visible to microwave frequencies, provided that low-loss dielectric materials can be additively fabricated with subwavelength feature sizes.



#### About the presenter:

Koray Aydin, Ph.D., is an assistant professor of electrical engineering and computer science at Northwestern University. He is the director of the Metamaterials and Nanophotonic Devices Lab at Northwestern University and is affiliated with the Applied Physics Graduate Program at Northwestern. Aydin received a B.S., an M.S., and a Ph.D. in physics from Bilkent University, Ankara, Turkey in 2002, 2004, and 2008 respectively. His research interests include applied physics, electrical engineering, materials science, and nanotechnology, with emphasis on nanophotonics. His lab's research efforts are directed toward the design of optical metamaterials with novel electromagnetic and photonic properties, and integration of nanoscale photonic materials with devices for applications in energy, health care, defense, and communications.

#### Who should attend:

Optical designers, optical and electrical engineers, physicists, researchers, educators, and students interested in the research, design, and application of novel metamaterials for a range of applications and industries.

This webinar is sponsored by Knight Optical, a provider of custom and stock optical solutions for a wide number of industries, including scientific research, defense, medical, optoelectronics, and manufacturing.

### Mark Your Calendar

**Date: Wednesday, November 07, 2018**

**Time: 1:00 PM - 2:00 PM EST**

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