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Introducing the CAOS Smart Camera

Wed, Apr 26, 2017 1:00 PM - 2:00 PM EDT

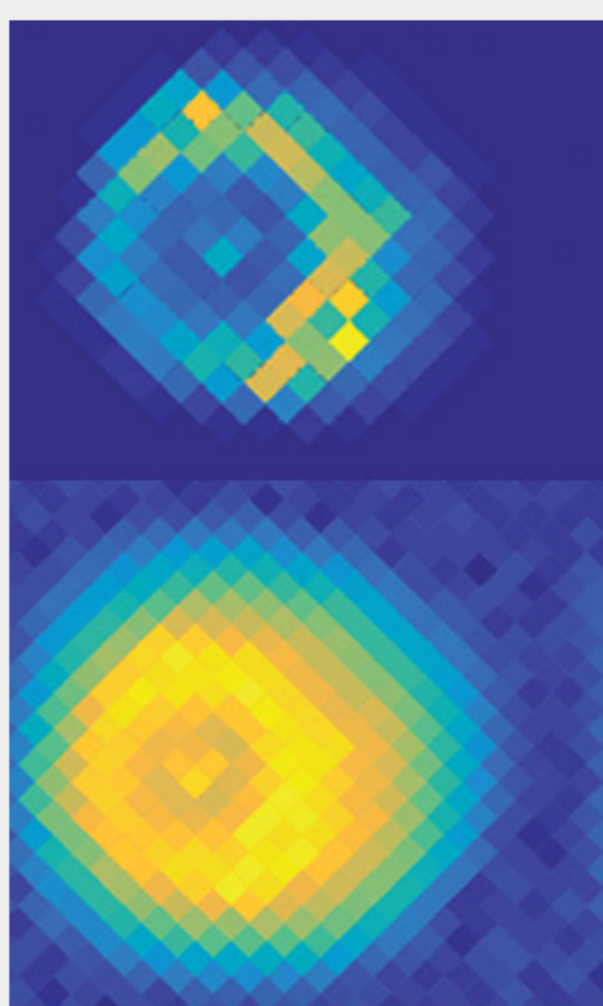
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About This Webinar

For security and surveillance applications, achieving true image scene pixel information is vital. This has led to an increasing demand for a smart camera that can achieve true vision through highly directional and adaptive image pixel sifting for high-value targets. To meet this need, Nabeel A. Riza, Ph.D., Chair Professor of Electrical and Electronic Engineering at University College Cork, has developed the Coded Access Optical Sensor (CAOS). The CAOS smart camera is a hybrid camera that works together with the CMOS/CCD/FPA sensors and computational imaging methods to extract smarter image information, including better spatial and spectral selectivity, faster speed, higher targeted pixel dynamic range and more diverse spectral bands. In this webinar Riza will discuss how the CAOS sensor, working with CMOS sensors, can smartly extract scene contrast pixel light intensity information using time-frequency coding of selected agile pixels.

Riza will discuss the challenges to reaching extreme all-linear, instantaneous dynamic ranges with multicolor smart capture of targets of interest within extreme contrast images, and how CAOS addresses these challenges, working with CMOS, CCD and focal plane array (FPA) camera sensors to extract previously unseen images. He will demonstrate a version of the CAOS camera called the CAOS-CMOS camera.

Who should attend: engineers, scientists, researchers and technical professionals who may require or are interested in extreme contrast imaging.



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