



SEMINAR

Centre for Optical and Laser Engineering (COLE)
School of Mechanical & Aerospace Engineering,
Nanyang Technological University

In conjunction with
OPSS (Optics and Photonics Society of Singapore)
SPIE (Student Singapore Chapter)

Title: Micro-lens enabled applications in optical sensing, imaging and 3D display

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Date : Feb. 08, 2012

Time : 3 :30 pm

Place : Meeting Room D (Block N3.2-02-59)

Abstract of Talk

We report on recent development of micro-lens enabled new applications with enhancement in surface plasmon resonance (SPR) sensing, super-resolved wide-field microscopic imaging with surface plasmon polaritons (SPP) and 3D integral imaging assisted by spiral phase plates, optical vortices, radial polarization and microlenses respectively.

Speaker's Biography

Larry X.-C. Yuan received BEng and MEng degrees in optical engineering from Tianjin University, China, in 1985 and 1988, respectively, and PhD in physics from the University of London, King's College, in 1994. Between 1994 and 1999, he was a research fellow with the Cavendish Laboratory, the University of Cambridge. Between 1999 and 2010, he was a faculty (tenured) in the School of EEE of Nanyang Technological University, Singapore. He is Chang Jiang Scholar in the Institute of Modern Optics of Nankai University, and the Director of Key Laboratory of Optical Information Technical Science, Ministry of Education, China. His current work deals with micro/nano-optics, optical trapping, surface plasmon resonance (SPR) sensing and imaging, 3D display. He has published more than 160 journal papers in optics and photonics. He is an SPIE and OSA Fellow.

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