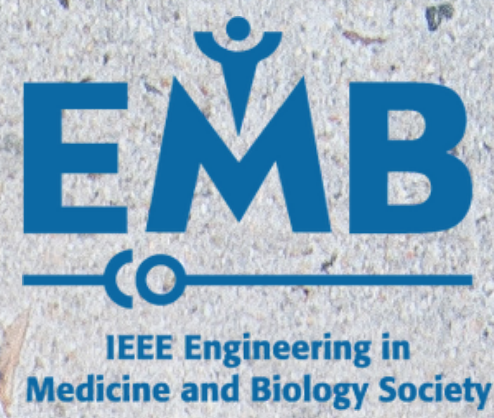




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5th IEEE EMBS Talk Series: Focus on Applied Optics

OPEN FOR ALL

Manipulating Light with Micro and Nano-Optics

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Abstract

Shaped light is used in a variety of applications. For compact systems, it is important to have compact means of generating light with the desired properties for that application. In this talk, I will present some examples of why manipulating light is important and how that can be achieved with meta and diffractive optics. We will also explore how such optics can be used to carry out tasks not always possible with conventional optics. Optics is getting smaller but the potential these elements have is infinite!

Speaker Bio:

Shanti Bhattacharya obtained her PhD in Physics from the Indian Institute of Technology, Madras, in 1997. She was awarded the Alexander von Humboldt award in 1998 and worked at the Technical University of Darmstadt, Germany for several years. She subsequently joined Analog Devices, Cambridge, USA, where she worked as a design engineer. She is currently a Professor at the Department of Electrical Engineering, IIT Madras. She has served on the board of OSA (now called Optica) and is currently an Associate Editor of Optical Engineering and the Journal of Optical Microsystems. Her current research interests are meta and diffractive optics, optical MEMS and studies relating to imaging techniques.

While she loves her work with light, she also loves her breaks, which more often than not involve escaping to the Himalayas for a while. She is an enthusiastic hiker and enjoys several outdoor activities.

Facilitators: Dr. Uttam M. Pal, Dr. Gowri A., Dr. Monisha M, IITDM Kancheepuram

For any queries, please write to embs.iitdmk@gmail.com



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Professor,

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**VENUE: SENATE HALL,
IITDM KANCHEEPURAM**