

KIOS Distinguished Lecture Series



Prof. Vijaykrishnan Narayanan
Pennsylvania State University, USA

Thursday, **7 July 2022**, at **15:00** | Amphitheatre **B108**

Or via zoom: <https://ucy.zoom.us/meeting/register/tJMpf--gqTkoHNQX3D1vQEog8k8BYP2CTTgv>

Distributed Visual Analytics: Algorithm - Architecture Interactions

LECTURE ABSTRACT

Our research team has been engaged in building embedded vision systems for couple of decades. First, I will introduce some of the recent applications aimed at assisting visually impaired and tracking pollinators in the wild. I will focus on specific challenges and solutions in communication-constrained distributed camera systems and multi-modal sensor fusion systems. I will focus on design of new machine learning pipelines. Finally, I will showcase some efforts at designing the next generation hardware accelerators to support these pipelines.

BRIEF BIO

Vijaykrishnan Narayanan is the Robert Noll Chair of Computer Science and Engineering at The Pennsylvania State University. His research interests are in computer architecture, design using emerging technologies, and embedded systems. He is a recipient of the 2021 IEEE Computer Society Edward McCluskey Technical Achievement Award, and 2021 IEEECS TCVLSI Distinguished Research Award. He serves as the Associate Director of the DoE 3DFeM Center and a thrust leader for the DARPA/SRC Center for Brain Inspired Computing. He is a Fellow of the IEEE, ACM and National Academy of Inventors.

