

Keynote 1: Computing & Computer Vision: The Synergy

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Abstract: Computer Vision and other fields of AI both depend heavily on and push the frontiers of high-performance computing. Early supercomputers were built for applications like image processing or had them as a major focus area. Applications in computer vision and similar areas have helped push computing to get more powerful and accessible. In this talk, we would look at the synergy between high-end computing and the leading-edge of computer vision.

Speaker bio: P. J. Narayanan is a professor at the International Institute of Information Technology, Hyderabad, and the institute's current director since April 2013. Narayanan obtained his B. Tech degree in computer science and engineering from Indian Institute of Technology, Kharagpur in 1984. Narayanan graduated with a master's degree from University of Maryland, College Park, US in 1989 and obtained his Ph.D in computer science from University of Maryland, College Park, US in 1991 where he worked with Prof. Larry Davis. He is known for his work in computer vision (3D reconstruction, structure-from-motion, computational displays), computer graphics (ray-tracing of implicit surfaces, dynamic scenes), and parallel computing on the GPU (graph algorithms, string sorting, ML techniques like graph cuts, ANN and clustering, as well as several computer vision tasks).