Biography: Vijayan K. Asari, Ph.D.

Dr. Vijayan Asari is a Professor in Electrical and Computer Engineering and Ohio Research Scholars Endowed Chair in Wide Area Surveillance at the University of Dayton, Dayton, Ohio, USA. He is the director of the Center of Excellence for Computer Vision and Wide Area Surveillance Research (Vision Lab) at UD. Dr Asari received his BS in electronics and communication engineering from the University of Kerala (College of Engineering, Trivandrum), India in 1978, M Tech and PhD degrees in Electrical Engineering from the Indian Institute of Technology, Madras in 1984 and 1994 respectively.

Dr. Asari's research interests include object detection, recognition and tracking in wide area surveillance imagery captured by visible, infrared, thermal, and LiDAR (Light Detection and Ranging) sensors. His research group also actively participates in the development of novel algorithms for 3D scene creation and visualization from 2D video streams, automatic visibility improvement of images captured in various weather conditions, human identification, human action and activity recognition, and brain signal analysis for emotion recognition and brain machine interface.

Prior to joining UD in February 2010, Dr Asari worked as Professor in Electrical and Computer Engineering at Old Dominion University, Norfolk, Virginia for 10 years. Dr Asari worked at National University of Singapore during 1996-98 and led a research team for the development of a vision-guided microrobotic endoscopy system. He also worked at Nanyang Technological University, Singapore during 1998-2000 and led the computer vision and image processing related research activities in the Center for High Performance Embedded Systems at NTU.

Dr. Asari holds three patents and has published more than 500 research papers, including an edited book in wide area surveillance and 86 peer-reviewed journal papers in the areas of image processing, pattern recognition, machine learning and high performance embedded systems. Dr Asari has supervised 22 PhD dissertations and 35 MS theses, and currently several graduate students are working with him in different sponsored research projects. He received several teaching, research, advising and technical leadership awards. Dr. Asari is actively participating in several federal and private funded research projects and he has so far managed around $15M research funding.

Dr. Asari has been a Senior Member of the IEEE since 2001 and is a Senior Member of the Society of Photo-Optical Instrumentation Engineers (SPIE). He is a member of the IEEE Computational Intelligence Society (CIS), IEEE CIS Intelligent Systems Applications Technical Committee, IEEE Systems, Man and Cybernetics Society (SMC) Technical Committee of Human Perception in Vision, Graphics and Multimedia, IEEE Internet of Things (IoT) Community, Society for Imaging Science and Technology (IS&T), IS&T Data Analytics and Marketing Task Force, Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and American Society for Engineering Education (ASEE). He is the co-organizer of several SPIE and IEEE conferences and workshops.

Homepage: http://sites.udayton.edu/vasari1/