

# Global Summit and Expo on Multimedia & Applications

August 10-11, 2015 Birmingham, UK



## Vijayan K Asari

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### Brain signal analysis for emotion recognition and brain machine interface

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#### **Biography**

Vijayan K 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. His research activities include development of novel algorithms for human identification by face recognition, human action and activity recognition, brain signal analysis for emotion recognition and brain machine interface, 3D scene creation from 2D video streams, 3D scene change detection, and automatic visibility improvement of images captured in various weather conditions. He received his BS in electronics and communication engineering from the University of Kerala, India, and M Tech and PhD degrees in Electrical Engineering from the Indian Institute of Technology, Madras. Prior to joining UD in February 2010, he worked as Professor in Electrical and Computer Engineering at Old Dominion University, Norfolk, Virginia for 10 years. He 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. He holds three patents and has published more than 480 research papers, including 80 peer-reviewed journal papers in the areas of image processing, pattern recognition, machine learning working with him in different sponsored research projects. He is participating in several federal and private funded research projects and he has so far managed around \$15M research funding. He received several teaching, research, advising and technical leadership awards. He is a Senior Member of IEEE and SPIE, and member of the IEEE Computational Intelligence Society. He is the corganizer of several SPIE and IEEE conferences and wor

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