Indian Institute of Technology Gandhinagar

Popular Lecture Series

Signal Processing for Stereoscopic 3D displays

Dr Nikhil Balram

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(www.rii.ricoh.com)

Venue: Institute Auditorium, A-block, 1st floor
Date: 8 Feb2012 Time: 5:00 – 6:30pm

Abstract:

The seminar will discuss the major signal processing requirements for stereoscopic 3D displays, using 3D TVs as the primary illustrating application. It will explain the major human vision issues that have to be considered and the signal processing that is required, with examples and demos to clarify the main concepts.

About Speaker:

Dr. Nikhil Balram is President and CEO of Ricoh Innovations, Inc. (www.rii.ricoh.com), a Silicon Valley company that develops innovative technologies and new business opportunities for Ricoh Company Ltd. He has previously served as an executive at several public companies in the digital video, display and consumer electronics industries including Faroudja (VP of Advanced Technology), Sage (VP and GM of Consumer Products), SONICblue (VP Connected Home), National Semiconductor (CTO Displays Group) and Marvell Semiconductor (VP and GM Digital Entertainment Business Unit). He has also been involved in a variety of consulting and advisory activities including serving as advisor to the CEO of UTV, India's first global media and entertainment company, advisor to IMAX, a leading entertainment technology company, visiting professor of vision science at the University of California, Berkeley, and guest professor at the Indian Institute of Technology Gandhinagar. Video technologies and semiconductor products developed by teams led by him over the last decade have won numerous awards including one Emmy, four Secrets of Home Theater awards, three EDN Innovation of the Year awards, and one TV Innovation of the Year award, and have been used by major consumer electronics companies worldwide. In 2011, Dr. Balram received an Alumni Achievement Award from Carnegie Mellon University. He has over 35 issued or pending US patents, over 30 technical papers, including two invited book chapters, and has given over 25 invited talks and keynote speeches at various conferences worldwide. He has a BS, MS and PhD in electrical engineering, all from Carnegie Mellon University.