

Smart LIDAR sensors enable clear robotic vision

Speaker Dr. Rengarajan Sudharsanan

Wed September 7th, 2016 at 6:30 pm

Location: California Lutheran University, Gilbert Sports and Fitness Center

Meetings are free and open to the public

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Today LIDAR sensors have become one of the most common sensors for 3D capture; thanks to autonomous cars, drones, and robots. All LIDAR sensors are not created equal and they come in a variety of sizes and shapes, and prices too. Typically, the price and size increase with the increasing range and higher range resolution and range accuracy. All these sensor parameters vary depending upon the applications and their requirements.

In this meeting, Dr. Sudhan will discuss the fundamentals of LIDAR sensors and how the sensor components, laser, detector, optics, and electronics influence sensor parameters such as range, range resolution, and range accuracy. Furthermore, he will discuss flash LIDAR and scanning LIDAR technologies and their merits and limitations in different applications. Finally, he will discuss the next generation chip-scale LIDAR sensors that can potentially make LIDAR sensors ubiquitous.

Dr. Rengarajan Sudharsanan



Dr. Rengarajan Sudharsanan is the president and founder of 3D-SensIR, Inc. He has more than 20 years of industrial experience in infrared sensors, IR cameras, and LIDAR products and in bringing early stage sensor and LIDAR technologies to market. Prior to starting 3D-SensIR, he was the director of sensor products at Spectrolab Inc., a Boeing company, where he established sensor product line and built flash and scanning LIDAR cameras.

Sudhan holds a doctorate degree in Physics and 7 patents and he is currently senior member of IEEE.

Location: : California Lutheran University
Gilbert Sports and Fitness Center, 2nd floor, Rooms 253/254.
130 Overton Court, Thousand Oaks, CA.
Pizza/networking starts at 6:30 pm
Talk starts at 7:00 pm

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