Optical 3D Sensing Systems

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Message from the Guest Editors

Dear colleagues,

Optical 3D sensing that acquires surface geometry information without physically touching the measured objects plays an increasingly critical role in numerous fields such as industry, agriculture, medicine, entertainment, and so on. Advances in electronic sensors, computational power and deep learning have greatly promoted the development of optical 3D sensing techniques. This special issue focuses on optical 3D sensing techniques and their applications. Various 3D sensing systems based on technologies such as structured light, stereo vision, time-of-flight (TOF) and others have been developed by many researchers. Unique hardware and software are also designed to realize the high-speed, accurate, compact, convenient, and intelligent sensing systems. The topics of this special issue includes but not limited to: novel and advanced optical systems, information processing methods and interesting applications of optical 3D sensing.

Special Issue