


Direct shape recovery from photometric stereo with shadows (Technion)

code: MAE-1513

Image reconstruction systems are necessary to interpret complex textures on the surfaces of biological tissues. Other methods have been presented, such as stereo vision systems and active illumination systems. However, these methods are often expensive, require high specialization, or involve complicated additional equipment. The presented endoscopic imaging system uses an uncomplicated light setup and a new computationally efficient theoretical model to provide low-cost, accurate 3D reconstructions of complex textures and surfaces.

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