Structured light generation and processing on a mobile device (Technion)
code: COM-1607

While projectors and cameras have each recently become available in mobile devices, no manufacturers have aligned their optical axes to synchronize them, leaving the users unable to take advantage of structured light projection and imaging. The proposed system and method are a novel solution to this problem, enriching functionality by angling the projection image while coordinating the camera's trigger module. This method takes advantage of the existing hardware and computing standards and can be applied to forms of human-computer interaction as well as existing cellphone technologies.

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