Building a 3D Object Scanner

So far, 3D scanning, which is the process of transforming a real-world object into a digital model, requires specialized and relatively expensive equipment. With upcoming smartphones like the Google Tango devices, in the future, everybody could have such a device in their pocket at no additional cost. This would make the technology available to a much broader audience than just professional artists or designers.

The goal of this project is to create an object scanner, which allows one to create 3D models from arbitrary objects to make these models available in a 3D object library. You can for instance use a Project Tango phone, which should give you a head start.

Requirements: Creative thinking and programming skills are advantageous to successfully work on this topic. The student(s) should be able to work independently. During your thesis, you will meet on a weekly basis with your advisor(s), to discuss progress and open questions.

Interested? Please contact us for more details!

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1Project Tango official site: https://get.google.com/tango/