

---

## Fringe projection profilometry: making It light

*School of Computer Science and Engineering, Nanyang Technological University,  
Singapore*

**Shenzhen Lv and Ke-mao Qian**

**Email: [mkmqian@ntu.edu.sg](mailto:mkmqian@ntu.edu.sg)**

Fringe projection profilometry has achieved wide attention and applications due to its high precision. We have attempted to further improve its precision through theoretical analysis, which makes the system slightly more complicated, either in the measurement workload, the output or the reconstruction algorithm. Our goal is to achieve the highest possible precision through a simplified “light” measurement process.



**Short Bio:**

**Ke-mao Qian** received his PhD degree from University of Science and Technology of China. He is an Associate Professor of Nanang Technological University, Singapore.