

## Demo

19:00 to 22:00 - June, 18 (Wednesday)

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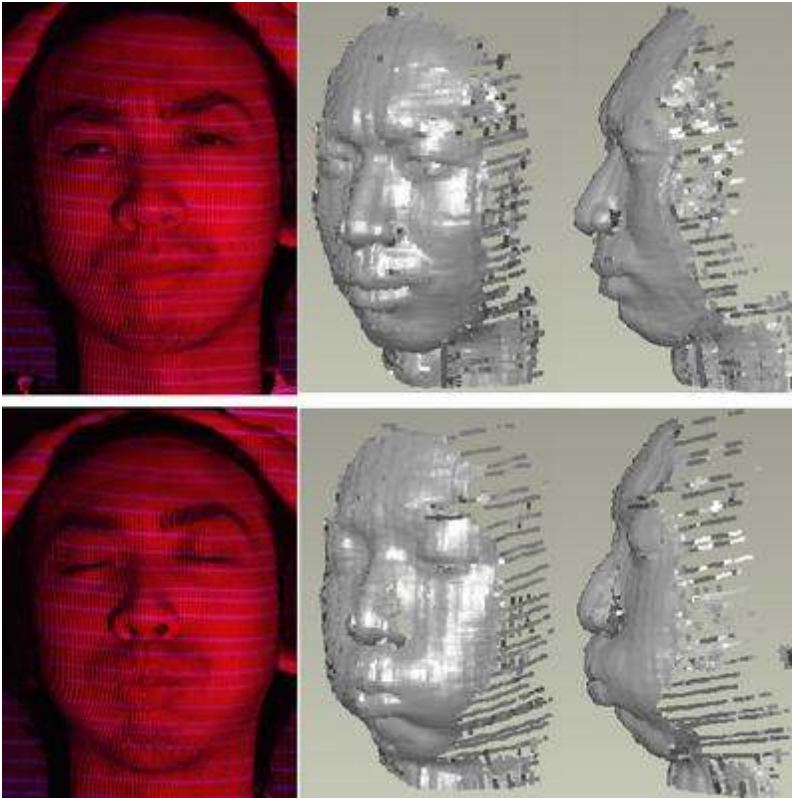
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### A Range Scanner for Moving Objects

Huynh Quang Huy Viet (Saitama University, Japan) and Hiroshi Kawasaki (Saitama University, Japan), Ryo Furukawa (Hiroshima City University, Japan) and Ryusuke Sagawa, (Osaka University, Japan) and Yasushi Yagi (Osaka University, Japan)



We demonstrate a 3D scanning system consisting of a single camera and a single video projector, which can capture a dense 3D shape of a moving object, e.g. rotating fan, human body, etc. The system is based on our original 'one-shot' scanning technique which uses a single dense grid pattern with only two colors; therefore, the technique is robust in terms of image processing. Another advantage of the system is that no synchronization device between a CCD camera and a video projector is necessary for the system, and thus, an inexpensive system can be realized with off-the-shelf devices and a simple configuration.

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