

## Video projection mapping quickly adaptable to scene motions

Mapping onto a variety of textured surfaces is enabled without need of calibration

### Overview

Recently, projector is widely adapted to various usage such as projection mapping, exhibition display etc.

Remaining technical issue of traditional projectors, position calibration between projector and screen are still hot topic.

This invention enables projected contents to stick on fast moving screens. Also contents can precisely stick on the screen when projector moves such as mobile projector use cases.

### Application Candidates

- Projection Mapping
- Mobile/Handy Projector
- Projection from movind objects(vehicle, drones AGV etc.)

### Patent Information

Application No. : PCT/JP2020/032650

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### Enabling precise contents sticking on moving screens



Demo Video available : <https://www.youtube.com/watch?v=HUhL2bjojJw>

### Related Works

- Shingo Kagami and Koichi Hashimoto, Animated Stickies: Fast Video Projection Mapping onto a Markerless Plane through a Direct Closed-Loop Alignment, IEEE Trans. Vis. Comput. Graph., 2019. (ISMAR2019)
- Shingo Kagami and Koichi Hashimoto, Interactive Stickies: Low-Latency Projection Mapping for Dynamic Interaction with Projected Images on a Movable Surface, 47th ACM SIGGRAPH International Conference and Exhibition on Computer Graphics and Interactive Techniques (SIGGRAPH 2020 Emerging Technologies), Virtual Event, U.S.A., August 17, 2020.

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