VIRTUAL PATTERN PROJECTION DEVICE

ALMA MATER STUDIORUM-UNIVERSITÀ DI BOLOGNA

Method to ease visual correspondence in images using virtual projected patterns, obtained replacing a conventional pattern projector with a robust depth sensor

Protection: Italy

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INVENTION

The proposed method enables the effectiveness of active systems without a pattern projector, with all its inherent limitations. The virtual projection in our solution is achieved leveraging a robust depth sensor. Moreover, our method can be extended to other configurations (e.g., optical flow, monocular depth estimation)

ADVANTAGES

- Improving depth/flow perception
- Enabling higher robustness to domain change issues affecting deep-learning networks.

APPLICATIONS

- Optical Flow
- Autonomous/assisted driving
- Smartphones and Tablets

CONTACTS

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