

An Accurate Speckle 3D Reconstruction System Based on Binocular Endoscope

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- A high-accuracy calibration method is proposed to calibrate the system.
- An improved Semi-Global Matching (SGM) algorithm is proposed to improve the correctness of the stereo matching.
- The experimental results showed that, the proposed algorithm we put forwarded can play a significant role in improving the 3D measurement accuracy.

