**عنوان مقاله:**

Calibrate Kinect to use in Computer Vision simplified and precise

**محل انتشار:**

هشتمین کنفرانس ماشین بینایی و پردازش تصویر ایران (سال: 1392)

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**خلاصه مقاله:**

Visual sensors, active or passive, play an importantrole in computer vision and in visual sensors, calibration is ofutmost importance. Kinect as a new developed sensor for use as aNatural User Interface is being utilized in different fieldsespecially CV. This integrated system beside other sensors,contains two visual sensors of active and passive that demands aprocess of calibration. Among different methods of calibration,image-based calibration for data-fusion purposes, has lowestcomputational cost and can be quite simple and precise. In thisstudy, 2 different methods, consisting of a physical interiordistortion model and an eight parameters registration equationhave been proposed. Besides computed parameters and theirprecision, a table of distortion values is introduced that can beused in registration level. Finally to evaluate chosen proposedmethod, a simple registration of processed data is utilized andresults are discusse

**کلمات کلیدی:**

Kinect; Calibration; Computer Vision; Sensor distortion modeling

**لینک ثابت مقاله در پایگاه سیویلیکا:**

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