عنوان مقاله:

Converting every Surface to Touchscreen

محل انتشار:

هفتمین کنفرانس ماشین بینایی و پردازش تصویر ایران (سال: 1390)

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خلاصه مقاله:

Today, touchscreens are one of the easiest means ofcommunication for computers, electronic devices, mobile phones,industrial and official machineries. Due to the limitation inproduction technology and high production cost of these screens,they are not that much available to use in a vast range. this papertend to explain the possibility of converting any flat surfaces,such as monitor screens of PCs, notebooks, televisions or videoprojection screens, to a touchscreen by using image processingtechniques. We can mention: the facility of transforming everyflat surface to touchscreen without any limitation in itsdimensions, putting the camera and video projector in the sameside of user, the possibility of placing the camera anywheretoward the screen, easy scale up and down for different screensizes, easy setup and calibration, supporting multi touch, and realtime response, as the advantages of the proposed algorithm

کلمات کلیدی:

Touchscreen; image processing; Kinect;calibration; rotation; scale; multi touch

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