

## عنوان مقاله:

A novel technique for finding the 3-Degree of freedom orientation by an ultrasound tracker

## محل انتشار:

شانزدهمین کنفرانس مهندسی برق ایران (سال: 1387)

تعداد صفحات اصل مقاله: 5

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## خلاصه مقاله:

The ability to determine the 3-Degree of freedom (DOF) orientation of a device is of fundamental importance in many applications including virtual reality, augmented reality and context aware applications. There are some conventional approaches to determine the orientation, each with their advantages and disadvantages. Ultrasound trackers are cheap and small and are not influenced by magnetic fields. In this work we present a novel approach to add the ability of finding a 3-DOF orientation of a device, to an ultrasound tracker

## کلمات کلیدی:

.ultrasound tracker, planar orientation, 3-DOF orientation, quaternion, roll, pitch and yaw

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/47584>

