Abstract

In this work we show a method that allows one to measure, with high precision, on a flat position, displacement and orientation of a mobile object. A reference pattern is fixed on the object's surface and is located on the scene by means of a static imaging system with subpixel resolution, on the perpendicular plane to the optical axis. The use of 2D Fourier transformer, associated to the approach of a flat phase allows the high resolution of the system.

Keywords

Phase detection, Image processing, Fourier transformer.