

Multi-dimensional information sensing of complex surfaces based on fringe projection profilometry

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Abstract: Multi-dimensional and high-resolution information sensing of complex surface profiles is critical for investigating various structures and analyzing their mechanical properties. This information is currently accessed separately through different technologies and devices. Fringe projection profilometry (FPP) has been widely applied in shape measurement of complex surfaces. Since structured light information is projected instead of being attached onto the surface, it holds back accurately tracking corresponding points and fails to further analyze deformation and strain. To address this issue, we propose a multi-dimensional information sensing method based on digital image correction (DIC)-assisted FPP. Firstly, colorful fluorescent markers are introduced to produce modulated information with both high-intensity reflectivity and color difference. And then, the general information separation method is presented to simultaneously acquire speckle-free texture, fringe patterns and high-contrast speckle patterns for multi-dimensional information sensing. To the best of our knowledge, this proposed method, for the first time, simultaneously realizes accurate and high-resolution 2D texture (T), 4D shape (x , y , z , t) and analytical dimensional mechanical parameters (deformation (d), strain (ϵ)) information sensing based on the FPP system. Experimental results demonstrate the proposed method can measure and analyze 3D geometry and mechanical state of complex surfaces, expanding the measuring dimension of the off-the-shelf FPP system without any extra hardware cost.

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1. Introduction

Multi-dimensional information sensing plays an important role in current technological developments [1]. With the increase in multi-disciplinary demands for time-varying two-dimensional (2D) textures, three-dimensional (3D) shapes, and corresponding mechanical properties, sensing technologies need to possess the multi-dimensional measuring capacities for a wide range of applications.

Among many optical sensing and measuring methods, fringe projection profilometry (FPP) has been widely used for mechanical engineering, augmented reality, and virtual reality [2–4]. Accurate 2D texture and 3D shape are acquired by projecting a series of structured light patterns, which are recorded by a camera from another angle. For the traditional FPP, a series of patterns are needed for reconstructing one 3D data, which limits the application in dynamic measurements. In addition, the fringes are projected but not attached onto the tested surface, which makes it fail to track the deformation of the corresponding points and perform accurate deformation and strain analysis. However, there are increasing demands to further measure and analyze transient shape, and mechanics properties in fields such as motion reconstruction [5,6], mechanical analysis [7,8], and so on, which require higher measurement dimension for the traditional FPP system.

On the side of dynamic property analysis, accurately characterizing the position, velocity, acceleration, and other relevant information of an object or scene in motion is of paramount

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