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A Novel Method for an Individual Recognition Using 3D Gait Signatures

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ABSTRACT

In this paper, we propose a new method for an individual recognition using 3D gait signatures computed from 3D data that are obtained from a triangulation-based projector-camera system. The method consists of four steps: First, 3D human body data are acquired by using a projector-camera system. The body data are composed of representative poses that occur during the gait cycle of a walking human. Second, 3D human body model is fitted to the body data using a bottom-up approach to estimate its pose. Third, the entire gait sequence is recovered by interpolation of joint positions in the fitted body models. Finally, static and dynamic gait features are obtained which are used for individual recognition. Representative experimental results have been included to show the robustness of the system.

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Because the object can reflect the topological structure and details change more effectively than any other descriptors, so skeleton is widely used in the 3D object recognition. But these existed algorithms require that skeleton endpoints must be on the contour of object,