

HUMAN IDENTIFICATION USING BODY SEGMENTS MOVEMENT ANALYSIS

Chiru Anghel¹, Mihălcică Mircea², Dumitru Nicoară³

¹University "Transilvania" of Braşov-Romania, Department of Mechanics

²University "Transilvania" of Braşov-Romania, Department of Mechanics

³University "Transilvania" of Braşov-Romania, Department of Mechanics

Corresponding author: Chiru Anghel, achiru@univbv.ro

Abstract: Human movement caught the interest of humanity from the earliest times to recent day. In this article we will try to prove that we can identify humans by the movement of their body segments. For that we will use a method to analyze the movement pattern of different individuals. First we will gather the data using a graphical method to analyze the pictures taken with a digital video camera. The data will be collected in a database and then analyzed using a mathematical method based on the Fourier theorem. The results will be presented as graphics and will have the most relevance for domains like medicine, sports and fighting crime.

Keywords: engineering, human movement, simulation, biometrics, fighting crime