UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

Automated Wound Segmentation and Dimension Measurement Using Robert

by

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For the Ph.Ddegree in Computer Science attnogineering

Accurate pressure ulcer (PrU) measurement is critical in assessing the effectiveness of PrU treatment. The traditienal interpressures is manual, subjective, and requires frequent contact with the wound. manual measurement relies on human observation which makes the measurement inconsistent, and the frequent contact with the wound increases risk of contamination or infection. The purpose of this assessate elevelop an automatic Pressure Ulcer Monitorig System (PrUMS) using a depth camera to provide automated on the interpretation of the manual measurement from PrUMS and the manual measurement was statistical different to the manual measurement due to limitations of the