

UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

Locomotion in Virtual Reality for Room Scale Tracked Areas for Neurotypical Individuals and Individuals with ASD

by

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For the Ph.D. degree in Computer Science & Engineering

Locomotion in virtual reality is expected to have a direct effect on user experience in terms of many elements such as effort, enjoyment, frustration, motion sickness and presence. Up to date, many locomotion techniques for virtual reality have been studied in the literature. However, many of these techniques were evaluated in large tracked areas. Although professional motion tracking systems can track large areas, today's new generation affordable commercial virtual reality systems can only track room scale environments. This dissertation aims at evaluating different locomotion techniques in room scale tracked areas for neurotypical individuals and individuals with ASD.

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THE PUBLIC IS INVITED

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