AN AUTONOMOUS METHOD FOR MEASURING 3D JOINT KINEMATICS FROM 2D XRAY IMAGES

By

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A DISSERTATION PRESENTED TO THE GRADUATE SCHOOL OF THE UNIVERSITY OF FLORIDA IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTORATE OF PHILOSOPHY

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ACKNOWLEDGEMENTS

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LIST OF ABBREVIATIONS

Denotes the summation of a series of terms

A really big bigcap

fractal A geometric pattern that is repeated at ever smaller scales to produce irregular shapes and surfaces that cannot be represented by classical geometry. Fractals are used especially in computer modeling of irregular patterns and structures in nature.

polynomial (in one variable) an expression consisting of the sum of two or more terms each of which is the product of a constant and a variable raised to an integral power: $ax^2 + bx + c$ is a polynomial, where a, b, and c are constants and x is a variable.

Abstract of Dissertation Presented to the Graduate School of the University of Florida in Partial Fulfillment of the Requirements for the Degree of Doctorate of Philosophy

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Chair: Scott Banks

Major: Mechanical Engineering

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CHAPTER 1 EXAMPLES OF EDITOR/AUTHOR TOOLS, TABLES, AND IMAGES

BIOGRAPHICAL SKETCH

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Jason is a person that wrote some code, did some research, and eventually got a PhD in mathematics for some stuff. He had to actually write a real biographical sketch because he had forgotten to do it until final submission.