Master’s Defense Announcement

THREAT ANALYSIS USING FUZZY LOGIC
APPLIED TO THE EVADING AND CHASING ALGORITHM

Presented By:

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Abstract

Natural responses from artificial agents have been one of the major objectives for human interactive applications. Fuzzy Logic, an artificial intelligence paradigm, provides an alternative solution to complex systems with the added advantage of smooth responses. This artificial intelligence methodology has already been successfully applied in the fields of Process Control, Security, and Robotics, to name a few. In the field of Threat Analysis, it has been used for Information Technology Security, Financial Systems, and others.

This project aims to analyze the process of designing a Fuzzy System applied to the concept of evading and chasing; widely used in the field of simulations. We will present a black box overview of input and output variables, and the Fuzzy process itself. We then will provide an exhaustive examination of the methodology used to build a Fuzzy system.

Finally we will provide conclusions about the system both from results obtained from experiments and from the experience of building it.

Committee Members:

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