**REPUBLIC OF TURKEY**

**YILDIZ TECHNICAL UNIVERSITY**

**GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES**

**LOCATION ANALYSIS OF THE EMERGENCY SERVICE**

**CENTERS OF A CASE COMPANY**

**Kurt MAXWELL**

DOCTOR OF PHILOSOPHY THESIS

Department of Computer Engineering

Computer Engineering Program

Advisor

Prof. Dr. Kim CASEY

Co-Advisor

Assoc. Prof. Dr. Eusebia MOSELEY

July, 2019

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**LOCATION ANALYSIS OF THE EMERGENCY SERVICE CENTERS OF**

**A CASE COMPANY**

A thesis submitted by Kurt MAXWELL in partial fulfillment of the requirements for the degree of DOCTOR OF PHILOSOPHY is approved by the committee on 06.07.2019 in Department of Computer Engineering, Computer Engineering Program.

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| Prof. Dr. Kim CASEY | Assoc. Prof. Dr. Eusebia MOSELEY |
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| Advisor | Co-Advisor |

**Approved By the Examining Committee**

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Kurt MAXWELL

Signature

This study was supported by the Scientific and Technological Research Council of

Turkey (TUBITAK) Grant No: 2210.

*Dedicated to my family*

*and my best friend*

ACKNOWLEDGEMENTS

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Kurt MAXWELL

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LIST OF SYMBOLS

Ai Activities of Daily Life

C Alternate Step Test

C Body Mass Index

CR Cross Step moving on Four Stops

*f c*(.) Dynamic Bayesian Networks

*\_H* Demura’s Fall Risk Assessment Chart

*\_i* Electromyography

LIST OF ABBREVIATIONS

ADL Activities of Daily Life

AST Step Test

BMI Body Mass Index

CSFT Cross Step moving on Four Stops

DBN Dynamic Bayesian Networks

DFRAC Demura’s Fall Risk Assessment Chart

EMG Electromyography

FEUP Faculdade de Engenharia da Universidade do Porto

FPRI Fall Prediction and Risk Index

FR Fall Probability

FRI Fall Risk Index

GDP Gross Domestic Product

GUGT Get-Up-ang-Go Test

LABIOMEP Laboratório de Biomecânica do Porto

MEMs Micro-Electromechanics

MTC Minimum Toe Clearance

PCA Principal Components Analysis

PPA Physiological Profile Assessment

PPP Purchasing Power Parities

SMWT Six Meter Walking Test

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ABSTRACT

**Location Analysıs of the Emergency Servıce Centers of**

**a Case company**

Kurt MAXWELL

Department of Computer Engineering

Doctor of Philosophy Thesis

Advisor: Prof. Dr. Kim CASEY

Co-advisor: Assoc. Prof. Dr. Eusebia MOSELEY

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YILDIZ TECHNICAL UNIVERSITY   
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES

FEN BİLİMLERİ ENSTİTÜSÜ

ÖZET

**Düzlemsel Homotetik Hareketler Altında Yüksek**

**Mertebeden İvmeler Ve Poller**

Kurt MAXWELL

Bilgisayar Mühendisliği Bölümü

Doktora Tezi

Danışman: Prof. Dr. Kim CASEY

Eş-Danışman: Assoc. Prof. Dr. Eusebia MOSELEY

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FEN BİLİMLERİ ENSTİTÜSÜ

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2. Literature Review

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**Figure 1.1** Sample Figure

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**Figure 1.2** Sample Figure

The Istanbul State Engineering and Architectural Academy and affiliated schools of engineering and the related faculties and departments of the Kocaeli State Engineering and Architecture Academy and the Kocaeli Vocational School were merged to form Yıldız University with decree law no.41 dated 20 June 1982 and Law no. 2809 dated 30 March 1982 which accepted the decree law with changes.

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**Table 1.1** Sample Table

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* 1. Objective of the Thesis

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**Table 1.2** Sample Table

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* 1. Hypothesis

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**Figure 3.1** Sample Figure

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**Figure 4.2** Örnek Resim Örnek Resim Örnek Resim Örnek Resim Örnek Resim Örnek Resim Örnek Resim Örnek Resim Örnek Resim Örnek Resim

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Yıldız Technical University is one of the seven government universities situated in İstanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911. It is regarded as one of the best universities in the country as well. Our university has 10 Faculties, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 25,000 students.

The Istanbul State Engineering and Architectural Academy and affiliated schools of engineering and the related faculties and departments of the Kocaeli State Engineering and Architecture Academy and the Kocaeli Vocational School were merged to form Yıldız University with decree law no.41 dated 20 June 1982 and Law no. 2809 dated 30 March 1982 which accepted the decree law with changes.

The new university incorporated the departments of Science-Literature and Engineering, the Vocational School in Kocaeli, a Science Institute, a Social Sciences Institute and the Foreign Languages, Atatürk Principles and the History of Revolution, Turkish Language, Physical Education and Fine Arts departments affiliated with the Rectorate.

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References

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Publications from the thesis

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**Papers**

1. Paper 1

2. Paper 2

**Conference Papers**

**1**. Paper 1

**2**. Paper 2

**Books**

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**Projects**

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**Awards**

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