

DEVELOPING A TRANSFORMER-BASED APPROACH FOR FUSING INFRARED AND  
VISIBLE IMAGES FOR IMPROVED OBJECT DETECTION

A THESIS SUBMITTED TO  
THE GRADUATE SCHOOL OF INFORMATICS OF  
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BY

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MASTER OF SCIENCE  
IN  
THE DEPARTMENT OF INFORMATION SYSTEMS

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**Developing A Transformer-Based Approach for Fusing Infrared and Visible Images for Improved  
Object Detection**

submitted by **AYTEKIN ERDOGAN** in partial fulfillment of the requirements for the degree of **Master  
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# **ABSTRACT**

## **DEVELOPING A TRANSFORMER-BASED APPROACH FOR FUSING INFRARED AND VISIBLE IMAGES FOR IMPROVED OBJECT DETECTION**

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# ÖZ

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Dedication here



## **ACKNOWLEDGMENTS**

Acknowledgments here

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## **LIST OF ABBREVIATIONS**

ESM	Experience Sampling Method
GLMM	Generalized Linear Mixed Model



# CHAPTER 1

## INTRODUCTION

Lorem ipsum dolor sit amet, mea sanctus appetere id, ut blandit referrentur mel. Qui legendos mediocrem ei, mazim soluta praesent sed ut. Eam diam putent invidunt id. Cu his virtute interpretaris, quod latine at per. Has ex aliquip expetendis, per at dui suscipiantur, vix id laudem nostro omnesque. Te pro nusquam detracto, ius at fuisset disputando, cibo malorum dignissim ut pri.

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### 1.1 Research Questions

### 1.2 Contributions of the Study

### 1.3 Organization of the Thesis





## **CHAPTER 2**

### **RELATED WORK**

In this chapter, related studies are given in detail.

#### **2.1 Related Work Section I**



## **CHAPTER 3**

### **USER EXPERIMENT**

In this chapter, the details of the user experiment are presented.

#### **3.1 Research Method and Experiment Design**



## **CHAPTER 4**

### **USER EXPERIMENT**

In this chapter, the details of the user experiment are presented.

#### **4.1 Research Method and Experiment Design**



## **CHAPTER 5**

### **CONCLUSION AND FUTURE WORK**





## **APPENDIX A**

### **TABLES FOR RELATED WORK CHAPTER**

#### **A.1 Summary of the Studies**



## **APPENDIX B**

### **EXTRA MATERIAL**



## **APPENDIX C**

### **INSTRUMENTS AND ETHICAL CLEARANCE**