

**ANKARA YILDIRIM BEYAZIT UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED
SCIENCES**



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**M.Sc. Thesis by
Name Name SURNAME**

Department of Computer Engineering

September, 2023

ANKARA

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**A Thesis Submitted to the
Graduate School of Natural And Applied Sciences of
Ankara Yildirim Beyazit University
In Partial Fulfillment of the Requirements for the Degree of Master of Science in
Computer Engineering, Department of Computer Engineering**

**by
Name Name SURNAME**

September, 2023

ANKARA

M.Sc. THESIS EXAMINATION RESULT FORM

We have read the thesis entitled "**THESIS TITLE THESIS TITLE THESIS TITLE THESIS TITLE THESIS TITLE THESIS TITLE THESIS TE**" completed by **NAME NAME SURNAME** under supervision of **PROF. DR. BBBB BBBBB** and we certify that in our opinion it is fully adequate, in scope and in quality, as a thesis for the degree of Master of Science.

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ETHICAL DECLARATION

I hereby declare that, in this thesis which has been prepared in accordance with the Thesis Writing Manual of Graduate School of Natural and Applied Sciences,

- All data, information and documents are obtained in the framework of academic and ethical rules,
- All information, documents and assessments are presented in accordance with scientific ethics and morals,
- All the materials that have been utilized are fully cited and referenced,
- No change has been made on the utilized materials,
- All the works presented are original,

and in any contrary case of above statements, I accept to renounce all my legal rights.

Date: 2023, 20 September

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ACKNOWLEDGEMENTS

Firstly, I would like to express my sincere gratitude to my advisor Prof. Asds ASDAS for continuous support of...

Beside my advisor, I am deeply indebted to Prof. Asdas

I thank my colleagues at AYBU...

September, 2023

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ABSTRACT

Imaging in sub-Terahertz (THz) band has become an attractive research area with emerging technology since it has a wide range of potential applications in defense, security or airborne systems...

Keywords: Compressed sensing, sub-THz, single pixel imaging, super-resolution, computational ghost imaging, millimeter wave, image quality assessment, convex optimization, matching pursuit, hadamard.

TÜRKÇE TEZ BAŞLIĞITÜRKÇE TEZ BAŞLIĞITÜRKÇE TEZ BAŞLIĞITÜRKÇE TEZ BAŞLIĞITÜRKÇE TEZ BAŞLIĞI ÖZ

Terahertz (THz)-altı bandında görüntüleme, savunma, güvenlik veya havacılık sistemlerinde çok çeşitli potansiyel uygulamalara sahip olması nedeniyle, gelişen teknolojiyle birlikte çekici bir araştırma alanı haline gelmiştir...

Anahtar kelimeler: Sıkıştırılmış algılama, THz-altı, tek piksel görüntüleme, süper-çözünürlük, hesaplamalı hayalet görüntüleme, milimetre dalga, görüntü kalitesi değerlendirme, konveks optimizasyon, eşleştirme algoritması, hadamard.

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NOMENCLATURE

Roman Letter Symbols

T Absolute temperature, K

U Overall heat transfer coefficient, $W/(m^2.K)$

Greek Letter Symbols

α Ratio of heat transfer area of one side to total heat exchanger volume, m^2/m^3

β Complex numbers

ρ Density of fluid, kg/m^3

Subscripts

c Cold fluid

h Hot fluid

Acronyms

BDC Bottom Dead Center

CI Compression-ignition

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CHAPTER 1

INTRODUCTION

Bu döküman Ankara Yıldırım Beyzıt Üniversitesi Fen Bilimleri Enstitüsünün Haziran 2021 kurallarına göre güncellenmiştir. Söz konusu tarihte tez tesliminde kullanılmıştır. Enstitünün resmi şablonu değildir. Tüm sorumluluk kullanan kişiye aittir. Enstitü yazım kuralları sürekli güncellendiği için, değişiklikleri takip etmek yazarın sorumluluğundadır.

Referans vermek için bir *References.bib* dosyasına gerekli referans bilgileri BibTeX formatında eklenir. Sonra ilgili referans `\cite{ReferansAdı}` kodu ile eklenir. Enstitü kılavuzunda makale [1], kitap [2], internet alıntısı [3] gibi farklı türdeki referanslar için farklı kurallar mevcuttur. *References.bib* dosyası oluşturulurken doğru türde (*article*, *misc*, *book*) referans eklenmelidir. Toplu alıntılar için `\cite{ReferansAdı1,ReferansAdı2,ReferansAdı3}` şeklinde virgül ile tek `\cite{}` kodu içinde alıntı yapılır. Ör: [1–3]

1.1 Section Title

This is a text inside the section

Örnek tablo:

Table 1.1 Surface characteristics of fins

Fin type	Fin density	Plate spacing	Hydraulic diameter	Fin thickness
Plain 9.03	355.5	20.9	4.463	0.203
Plain 11.11	437	6.35	3.081	0.152

Before subsection text

1.1.1 Subsection title

After subsection text.....

.....
.....
.....

Örnek figür:

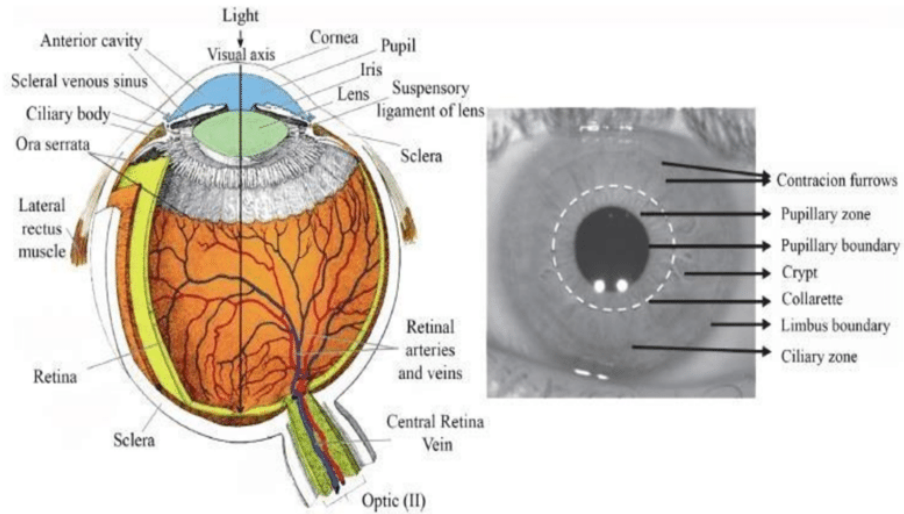
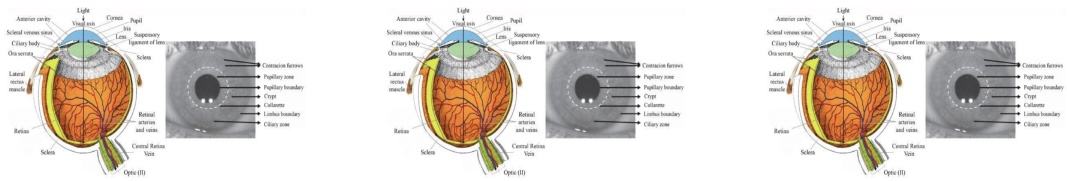


Figure 1.1 Iris demonstration [4]

By putting `\autoref{fig:eye}` where `fig:eye` is the label of the figure, you may reference your figure or in similar way your table, e.g.: see Figure 1.1 or see Table 1.1 and also see Table 2.1
.....

Also by putting `\Cref{ch:1}` where `ch:1` is the label of the chapter and 1 at the end is the chapter number, you can reference a chapter, e.g.: Chapter 1 includes the necessary information about blah blah. If you put `\cref{ch:2}` where the first letter of command is not capital, you will get something like: The second chapter has blah blah

If you put `\hyperref[sec:1-1]{section}` where `sec:1-1` is the label of the section and "section" at the end is the word you want to put the reference on, e.g.: blah blah have been mentioned in the previous section.
.....
.....
.....



(a) Iris demonstration 1 [4]

(b) Iris demonstration 2 [4]

(c) Iris demonstration 3 [4]

Figure 1.2 Iris demonstrations [4]

.....

.....

.....

.....

.....

Example equation:

Pythagorean theorem: $x^2 + y^2 = z^2$ (1.1)

Pythagorean theorem: $x^2 + y^2 = z^2$ (1.2)

By putting \eqref{equation: 1} you can create equation reference. Ex: Equation 1.1 is showing the Pythagorean theorem.

.....

.....

.....

CHAPTER 2

MATERIALS AND METHODS

2.1 Section Title

This is a text inside the section

 Bu döküman Ankara Yıldırım Beyzıt Üniversitesi Fen Bilimleri Enstitüsünün Mart 2022 kurallarına göre güncellenmiştir. Söz konusu tarihte tez tesliminde kullanılmıştır. Enstitünün resmi şablonu değildir. Tüm sorumluluk kullanan kişiye aittir. Enstitü yazım kuralları sürekli güncellendiği için, değişiklikleri takip etmek yazarın sorumluluğundadır.

Referans vermek için bir *References.bib* dosyasına gerekli referans bilgileri BibTeX formatında eklenir. Sonra ilgili referans `\cite{ReferansAdı}` kodu ile eklenir. Enstitü kılavuzunda makale [1], kitap [2], internet alıntısı [3] gibi farklı türdeki referanslar için farklı kurallar mevcuttur. *References.bib* dosyası oluşturulurken doğru türde (*article*, *misc*, *book*) referans eklenmelidir.

Örnek tablo:

Table 2.1 Örnek tablo

A	1
B	2
C	3

2.1.1 Subsection Title

.....

REFERENCES

- [1] Pelleg D. and Moore A., “Accelerating exact k-means algorithms with geometric reasoning,” *Proceedings of the Fifth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, p. 277–281, 1999.
- [2] Goodfellow I., Bengio Y., and Courville A., *Deep Learning*. Cambridge: MIT Press, 2016.
- [3] Google Inc, “Kaggle,” 2020, retrieved April 1, 2020. [Online]. Available: <https://www.kaggle.com/>
- [4] Zidan K. and Stephan J., “A review on iris recognition system based different classification techniques,” *Solid State Technology*, vol. 64, pp. 5106–5119, 04 2021.

APPENDICES

Appendix A: First Appendix.

Appendix B: Another Table.

Appendix C: Thermophysical Properties of Air.

Appendix D: K_c and K_e Coefficients.

Appendix A – First Appendix

This is a text inside the section

Table A.1 Örnek tablo

A	1
B	2
C	3

Appendix B – Another Table

This is a text inside the section

Table B.1 Örnek tablo

A	1
B	2
C	3

CURRICULUM VITAE

PERSONAL INFORMATION

Name Surname : Name Name SURNAME

Date of Birth : 01.01.1990

Phone :

E-mail :



EDUCATION

High School :

Bachelor :

Master Degree :

WORK EXPERIENCE

Research Assist. or Engineer etc. : T.C. bla bla

TOPICS OF INTEREST

- Thermodynamics

- Fluid Mechanics

- Heat Transfer

- Internal Combustion Engines

PRESENT ORGANIZED SOURCES / PRESENTATION

bla bla

**September, 2023
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