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New Roman" fontu kullanılmalıdır.

T.C.

YILDIZ TEKNİK NİVERSİTESİ

FEN BİLİMLERİ ENSTİTS

TM KELİMELE  
BYK HARF  
YAZILMALI

RNEK BİR ŐİRKETİN ACİL SERVİS MERKEZLERİNİN

KONUM ANALİZİ

Tm boŐluklar Őablondaki gibi olmalı

Kurt MAXWELL

YKSEK LİSANS TEZİ

Bilgisayar MhendisliĐi Anabilim Dalı

Bilgisayar MhendisliĐi Programı

Danışman

Prof. Dr. Kim CASEY

~~EŐ Danışman~~

~~Prof. Dr. Eusebia MOSELEY~~

-> EŐ Danışman Yoksa  
Silinir

~~Temmuz, 2019~~

EŐ danışman yoksa bile  
Temmuz, 2019 yazısı  
yine aynı konumda olmalı

Tez Savunma Sınavınızın AYI ve YILI yazılmalı

T.C.  
YILDIZ TEKNİK ÜNİVERSİTESİ  
FEN BİLİMLERİ ENSTİTÜSÜ

**ÖRNEK BİR ŞİRKETİN ACIL SERVİS MERKEZLERİNİN  
KONUM ANALİZİ**

**Tez Savunması Tarihi**

Kurt MAXWELL tarafından hazırlanan tez çalışması çalışması 12.07.2019 tarihinde aşağıdaki jüri tarafından Yıldız Teknik Üniversitesi Fen Bilimleri Enstitüsü Bilgisayar Mühendisliği Anabilim Dalı, Bilgisayar Mühendisliği Programı YÜKSEK LİSANS TEZİ olarak kabul edilmiştir.

**Soyisimlerin  
TÜMÜ  
BÜYÜK HARF  
olmalı**

Prof. Dr. Kim CASEY  
Yıldız Teknik Üniversitesi  
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Eş Danışman~~

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Prof. Dr. Mitchell GREGORY, Üye  
TUBİTAK

Prof. Dr. Yulanda CLEMENTS, Üye  
İstanbul Teknik Üniversitesi

**Eş Danışman yoksa SİLİNİR.**

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~~1~~

**KABUL SAYFASINDA;  
Sayfa numarası gözükmeyiz**

**Soyisimler büyük harf**

Danışmanım Prof. Dr. Kim CASEY sorumluluğunda tarafımda hazırlanan Düzlemsel Homotetik Hareketler Altında Yüksek Mertebeden İvmeler ve Poller başlıklı çalışmada veri toplama ve veri kullanımında gerekli yasal izinleri aldığımı, diğer kaynaklardan aldığım bilgileri ana metin ve referanslarda eksiksiz gösterdiğimi, araştırma verilerine ve sonuçlarına ilişkin çarpıtma ve/veya sahtecilik yapmadığımı, çalışmam süresince bilimsel araştırma ve etik ilkelerine uygun davrandığımı beyan ederim. Beyanımın aksinin ispatı halinde her türlü yasal sonucu kabul ederim

Kurt MAXWELL

İmza

Bu çalışma, Yıldız Teknik Üniversitesi Bilimsel Araştırma Proje Koordinatörlüğü' nün 1245A numaralı projesi ile desteklenmiştir.

*Aileme*  
*ve*  
*biricik eşime*



## TEŞEKKÜR

---

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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Kurt MAXWELL

**Sayfa numarası BU SAYFADAN "v" ile BAŞLAR.**  
**Tubitak, BAP gibi destek yoksa o sayfa silinir. Teşekkür sayfası "iv" ile başlar.**

**İÇİNDEKİLER AŞAĞIDAKİ GİBİ DEĞİL,  
WORD veya LATEX ŞABLONUNDAKİ  
GİBİ OLMALI**

## İÇİNDEKİLER

SİMGE LİSTESİ.....	8
KISALTMA LİSTESİ.....	9
ŞEKİL LİSTESİ.....	10
TABLO LİSTESİ.....	11
ÖZET.....	12
ABSTRACT.....	14
1 Giriş.....	1
1.1 Literatür Özeti.....	1
1.2 Tezin Amacı.....	4
1.3 Hipotez.....	4
2 Başlık.....	6
2.1 Alt Başlık.....	6
2.2 Alt Başlık.....	9
2.3 Alt Başlık.....	9
3 Başlık.....	11
3.1 Alt Başlık.....	11
3.2 Alt Başlık.....	13
4 Başlık.....	14
4.1 Alt Başlık.....	14
5 Başlık.....	17
5.1 Alt Başlık.....	17
6 Başlık.....	20

6.1 Alt Başlık.....	20
A Erasmus .....	23
B Erasmus Ülke Kodları .....	24
Kaynakça.....	25
Tezden Üretilmiş Yayınlar .....	26

BURADAKİ GİBİ OLMALI . (Simge listesi ve diğer ana başlıklarda noktalar yok)

WORD' TE HERŞEY TAMAMLANDIKTAN SONRA , MANUEL OLARAK ALTTAKİ GİBİ DÜZENLENEBİLİR.

## İÇİNDEKİLER

SİMGE LİSTESİ	viii
KISALTMA LİSTESİ	ix
ŞEKİL LİSTESİ	xi
TABLO LİSTESİ	xii
HARİTA LİSTESİ	xiii
ÖZET	xiv
ABSTRACT	xvi
<b>1 GİRİŞ</b>	<b>1</b>
1.1 Tez İçeriği . . . . .	1
1.2 Tez İçeriği . . . . .	2
1.3 Tez İçeriği . . . . .	3
1.4 Tezin İçeriği . . . . .	4
<b>2 GENERAL INFO</b>	<b>5</b>
2.1 History . . . . .	6
2.2 Historical Advancements in the University . . . . .	6
2.2.1 The Yıldız University Period . . . . .	7
2.2.2 The Yıldız Technical University Period . . . . .	7
<b>3 ERASMUS</b>	<b>9</b>
3.1 National Agency . . . . .	9
3.2 About YTU . . . . .	10
3.3 Application Procedure . . . . .	10
3.4 Money Exchange . . . . .	10
3.5 After a Car Accident . . . . .	11
<b>4 SONUÇ</b>	<b>13</b>

Ana bölüm başlıkları tümü büyük harfle olmalı. (Hem İÇİNDEKİLER kısmında hem de TEZ İÇERİSİNDE)

1.bölüm adı; "GİRİŞ" Olmalı

Bu alt başlıklar zorunlu değildir. tezinize bağlı olarak değişebilir

Gerekliyse 1.4  
1.5 gibi başlıklar eklenebilir.

Alt başlıklar buradaki gibi Girintili olmalı.

İçindekilerde En fazla ikinci seviye alt başlıklar yer almalıdır (Örn: 1.1.1)

Son bölümün adı; SADECE "SONUÇ" Olmalı. İNGİLİZCE TEZDE İSE "CONCLUSION"

<b>KAYNAKÇA → Referanslar değil de "Kaynakça" olmalı</b>	<b>14</b>
<b>A ERASMUS POLICY</b>	<b>15</b>
A.1 After a Car Accident . . . . .	15
<b>B ERASMUS COUNTRY CODES</b>	<b>16</b>
<b>TEZDEN ÜRETİLMİŞ YAYINLAR</b>	<b>19</b>

Listeler (Simge, kısaltma, tablo, şekil, harita listesi) tek satır aralığı ile önce 0 nk sonra 0 nk kullanılarak yazılmalıdır.

Simgeler,  
açıklamaya göre  
alfabetik  
sıralanmalı

## SİMGE LİSTESİ

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Ai	Activities of Daily Life
C	Alternate Step Test
C	Body Mass Index
CR	Cross Step moving on Four Stops
$fc(.)$	Dynamic Bayesian Networks
$_H$	Demura's Fall Risk Assessment Chart
$_i$	Electromyography

**KISALTMAYA GÖRE ALFABETİK OLARAK SIRALANMALI.  
YANI ÖNCELİKLE "A" ile başlayan kısaltmalardan başlayıp en Son " Z" ile başlayan kısaltmalara yer vermeli.**

## KISALTMA LİSTESİ

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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-and-Go Test
LABIOMEPE	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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<b>Şekil 1.1</b> Örnek resim .....	2
<b>Şekil 1.2</b> Örnek resim .....	3
<b>Şekil 1.3</b> Deneme deneme .....	3
<b>Şekil 3.1</b> Örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim .....	12
<b>Şekil 3.2</b> Deneme şekil .....	13
<b>Şekil 4.1</b> Örnek resim .....	15
<b>Şekil 4.2</b> Örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim .....	16

**Şekil İsimleri 2. satıra taşarsa; yine aynı hizada olmalı**

**KALIN OLMALI**

## **TABLO LİSTESİ**

---

<b>Tablo 1.1</b> Örnek tablo.....	4
<b>Tablo 1.2</b> Deneme tablosu.....	4
<b>Tablo 2.1</b> İkinci örnek tablo .....	7
<b>Tablo 2.2</b> Üçüncü örnek tablo .....	9

**Tablo İsimleri 2. satıra taşarsa; yine aynı hizada olmalı**

**ÇİZELGE LİSTESİ değil de TABLO LİSTESİ olarak ifade edilmeli.**

**Özet ve Abstractta Kelimelerin  
Yalnızca Baş Harfleri Büyük**

**ÖZET**

## **Düzlemsel Homotetik Hareketler Altında Yüksek Mertebeden İvmeler ve Poller**

Kurt MAXWELL

**EN AZ 200,  
MAKSİMUM 300  
KELİME OLMALI**

Bilgisayar Mühendisliği Anabilim Dalı

Yüksek Lisans Tezi

Danışman: Prof. Dr. Kim CASEY

~~Eş-Danışman: Doç. Dr. Eusebia MOSELEY~~

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satır silinir.**

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Trenler önceden hazırlanmış bir hareket planına uygun biçimde hareket etmektedir. Ancak beklenmedik bazı olayların gerçekleşmesi sonucu gecikmeler ve trenler arası çatışmalar meydana gelebilmektedir. Trafik kontrolü, trenler arası çatışmaları, gecikmeleri mümkün olduğunca azaltacak şekilde çözüp, yeni bir uygulanabilir çizelge hazırlamak için uygulanır. Problemin zorluk derecesi nedeniyle, problemin en az gecikme içeren çözümüne kabul edilebilir bir süre içerisinde ulaşılması imkânsızdır. Bu çatışmada, 5 dakika gibi kısa bir süre içerisinde uygulanabilir ve gecikme toplamının olabildiğince en küçüklendiği bir çizelge hazırlamak için, genetik algoritmalar kullanılmıştır. Geliştirilen algoritmanın çözümleri, belirli boyuttaki problemlerin kesin ve dispeçer çözümleri (yapay sinir ağı) ile karşılaştırıldığında, algoritma kısa sürede yeteri kadar iyi sonuçlar vermektedir. Algoritmanın uygulanması için geliştirilen bilgisayar programı, tren dispeçerleri için bir karar destek sistemi olarak da kullanılabilir.

**Anahtar Kelimeler:** Demiryolu trafik kontrolü, trenlerarası çatışmalar, yeniden çizelgeleme, genetik algoritmalar, yapay sinir ağları

**Maksimum 5 anahtar kelime  
ve  
sadece 1. anahtar kelimenin  
baş harfi ve özel isimlerin  
baş harfi büyük**

**KALIN (BOLD)  
olmalı**

---

**YILDIZ TEKNİK ÜNİVERSİTESİ  
FEN BİLİMLERİ ENSTİTÜSÜ**

## ABSTRACT

Kelimelerin Yalnızca BAŞ harfleri  
BÜYÜK

### Location Analysis of the Emergency Service Centers of a Case Company

Kurt MAXWELL

EN AZ 200,  
MAKSİMUM 300  
KELİME OLMALI

Department of Computer Engineering

Doctor of Philosophy Thesis

Supervisor: Prof. Dr. Kim CASEY

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

**ABSTRACTA unvanlar ingilizce  
olmalı.**

**Doç. yerine "Assoc. Prof. Dr"  
yazılabilir.**

**Dr. Öğr. Üyesi yerine  
"Assist. Prof. Dr." yazılabilir**

**Eş danışman yoksa silinir.**

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The crude petroleum unit in the TÜPRAS, refinery at İzmit has been selected to show the applicability of the computer code developed to a real process, and as a result an original application has been accomplished. The heat integration study carried out on the crude petroleum unit shows that if a capital of 3576627 \$ is invested, the investment payback period is 1.7 years on the basis of the energy conservation achieved. Investment need is high; it is significant that it can be paid back by energy conservation in a reasonable period of time.

The crude petroleum unit in the TÜPRAS, refinery at İzmit has been selected to show the applicability of the computer code developed to a real process, and as a result an original application has been accomplished. In this study, it is aimed at designing heat exchanger networks by the use of pinch-point design method, which is one of the significant heat integration methods. In the presentation of the work various theoretical approaches regarding the pinch-point design method are discussed, and a new “Improved Problem Algorithm Table” developed for the application of the design is introduced.

**Keywords:** Railway traffic control, conflicts between trains, re-scheduling, genetic algorithms, neural networks

**Maksimum 5 anahtar kelime  
ve  
sadece 1. anahtar kelimenin baş harfi ve özel  
isimlerin baş harfi büyük**

KALIN (BOLD)  
olmalı

---

**YILDIZ TECHNICAL UNIVERSITY  
GRADUATE SCHOOL OF SCIENCE AND ENGINEERING**

17,5 punto ve TÜMÜ BÜYÜK HARF olmalı

**1**  
**GİRİŞ**

30 Punto olmalı

**1.1 gibi başlıklar Sola Yaslı ve 14 punto olmalı.**

## **1.1 Tez İçeriği**

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 İstanbul 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.

### **1.1.1 Alt BaşlıkBaşlık** **12 punto ve kalın olmalı**

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,

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**Şekil 1.1** Örnek resim  
şeklinde yazılmalı  
Şekil ve Tablo isimlerinde sadece ilk harf ve ÖZEL  
isimlerin ilk harfi BÜYÜK HARF diğerleri küçük olmalı.



**Şekil 1.1** Örnek resim

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.I

#### **1.1.1.1 Alt Başlık Başlık Başlık**

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

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**Şekil 1.2** Örnek resim

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.



**Şekil 1.3** Deneme deneme

The new university incorporated the departments of Science-Literature and Engineering, the Vocational School in Kocaeli, a Science Institute, a Social Sciences

3

a4 sayfalarda  
sayfanın sol  
ortasında yer  
almalı.

a3 sayfalarda  
sayfanın altında ve  
ortalı olarak yer  
almalıdır.

3

Institute and the Foreign Languages, Atatürk Principles and the History of Revolution, Turkish Language, Physical Education and Fine Arts departments affiliated with the Rectorate.

**Kalın olmalı. Tablo ismi ortalı olmalı**

**Tablo 1.1** Örnek tablo

Step #	Instruction
Create table caption	Insert, reference, caption, table
Format the caption	Format, style, "thesis-table-caption"
Create table	Table, insert...

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.

## **1.2 Tez İçeriği**

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.

**Tablo 1.2** Deneme tablosu

ac	dfe
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## **1.3 Tez İçeriği**

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.

17,5 punto ve ANA  
BÖLÜM  
BAŞLIKLARI  
TÜMÜ BÜYÜK  
HARF OLMALI

## 2 BAŞLIK

### 2.1 Alt Başlık

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.

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#### 2.1.1 Alt BaşlıkBaşlık

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,



Şekil 2.2 Side view of Graduate School of Natural and Applied Sciences, Yıldız Technical University, Çukursaray, İstanbul [10]

$$\Delta l = h \Delta \theta \quad (2.1)$$

$$\frac{\Delta l}{\Delta t} = h \frac{\Delta \theta}{\Delta t} \quad (2.2)$$

$$\lim_{\Delta t \rightarrow 0} \frac{\Delta l}{\Delta t} = \lim_{\Delta t \rightarrow 0} h \frac{\Delta \theta}{\Delta t} \quad (2.3)$$

$$\lim_{\Delta t \rightarrow 0} \frac{\Delta l}{\Delta t} = \frac{dl}{dt} \quad (2.4)$$

**Denklemler  
numaraları  
sağa yaslı  
olmalı**

**Denklemler ortalı yazılmalı.**



**Tablo 2.1** İkinci örnek tablo (devamı)

Create table	Table, insert...

**şekil ve tablolarda diğer sayfalara taşıyorsa bu şekilde başlık tekrarlanır ve devamı kelimesi eklenir.**

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**2.1.1.1.1 olamaz. maksimum 2.1.1.1 olabilir**

#### **2.1.1.1 Alt Başlık Alt Başlık Alt Başlık**

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**Tablo 2.2** Üçüncü örnek tablo


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**Şekil 3.1** Örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim

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**Şekil 3.2** Deneme şekil

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**Şekil 4.1** Örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim örnek resim

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**Şekil 5.1** Deneme şekil beşinci bölüm

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## KAYNAKA

- [1] K. N. Rao, "A novel class imbalance learning method using subset filtering," 2012.
- [2] H. Guo and H. L. Viktor, "Learning from imbalanced data sets with boosting and data generation: The databoost-im approach," ACM SIGKDD Explorations Newsletter, vol. 6, no. 1, pp. 30–39, 2004.
- [3] J. Van Hulse, T. M. Khoshgoftaar, and A. Napolitano, "Experimental perspectives on learning from imbalanced data," in Proceedings of the 24th international conference on Machine learning, ACM, 2007, pp. 935–942.

2 yana yaslı olmalı

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## KAYNAKÇA

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### Girintili olmalı

Guo, Hongyu and Herna L Viktor (2004). "Learning from imbalanced data sets with boosting and data generation: the DataBoost-IM approach". In: *ACM SIGKDD Explorations Newsletter* 6.1, pp. 30–39.

Rao, K Nageswara (2012). "A Novel Class Imbalance Learning Method using Subset Filtering". In:

Van Hulse, Jason, Taghi M Khoshgoftaar, and Amri Napolitano (2007). "Experimental perspectives on learning from imbalanced data". In: *Proceedings of the 24th international conference on Machine learning*. ACM, pp. 935–942.

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TÜMÜ BÜYÜK  
HARF OLMALI

**A**

**ERASMUS**

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**B**

**ERASMUS ÜLKE KODLARI**

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## TEZDEN ÜRETİLMİŞ YAYINLAR

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### Makaleler

1. Paper 1

2. Paper 2

### Konferans Bildirileri

1. Paper 1

2. Paper 2

### Kitaplar

1. Paper 1

2. Paper 2

### Projeler

1. Paper 1

2. Paper 2

### Ödüller

1. Paper 1

2. Paper 2



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