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# EL YAZISI BELGELERDE KELİME TABANLI ARAMA

# El Yazısı Belgeler

270. Letters, Orders and Instructions. October 1755.

only for the publick use, unless by particular Order from me. You are to send down a Barrel of Hints with the Arms, to Winchester, and about two thousand weight of Flour, for the two Companies of Rangers; twelve hundred of which to be delivered Captain. Lobbys Company, at the Plantation of Charles Sellars - the rest to Captain Lobbys Company, at Nicholas Peasmees.

October 26. G.W.

25. Winchester: October 28. 1755.  
Parole Hampton.

The Officers who came down from Fort Cumberland with Colonel Washington are immediately to go Recruiting; and they are allowed until the 5<sup>th</sup> of December; at which time if they do not punctually appear at the place of Rendezvous assigned them, they will be tried by a Court Martial, for disobedience of Orders.

They are to wait upon the *à la de camp* at one of the block, to receive their Recruiting Instructions - Each Officer present, to give in a Return immediately of the number of men he has obtained. - One Subaltern, one Sergeant, one Corporal, one Drummer, and twenty-five private men, are to mount Guard to-day, and to be relieved tomorrow at ten o'clock. - All Reports and Returns are to be made to the *à la de camp*.



# Motivasyon

- El Yazısı Belgeler
  - Sayısal ortam
  - Hızlı ve Kolay Erişim
  - Sınıflandırma ve Etiketleme
  - Optik Karakter Tanıma

# Motivasyon

- ⦿ Aranan kelimenin bulunması
  - Tanıma içermeyen sorgu
- ⦿ Aranan kelimeye en yakın sonuçlar

# Motivasyon

for

270. Letters, Orders and Instructions. October 1755.

only  the publick use, unless by particular Orders from me. You are to send down a Barrel of Hints with the Arms, to Winchester, and about two thousand weight of Flour,  the two companies of Rangers; twelve hundred of which to be delivered Captain Ashby, and Company, at the Plantation of Charles Sellers - the rest to Captain Cook's Company, at Nicholas Reames.

October 26<sup>th</sup> G.W.

28<sup>th</sup> Winchester: October 28<sup>th</sup> 1755.

Parole Hampton.

The officers who came down from Fort Cumberland with Colonel Washington are immediately to go Recruiting; and they are allowed until the 5<sup>th</sup> of December; at which time if they do not punctually appear at the place of Rendezvous assigned them, they will be tried by a Court Martial,  disobedience of Orders.

They are to wait upon the Aid de camp at one of the block, to receive their Recruiting Instructions. Each Officer present, to give in a Return immediately of the number of men he has obtained. — One Subaltern, one Sergeant, one Corporal, one Drummer, and twenty-five private men, are to mount Guard to-day, and to be relieved to-morrow at ten o'clock. — All Reports and Returns are to be made to the Aid de camp.

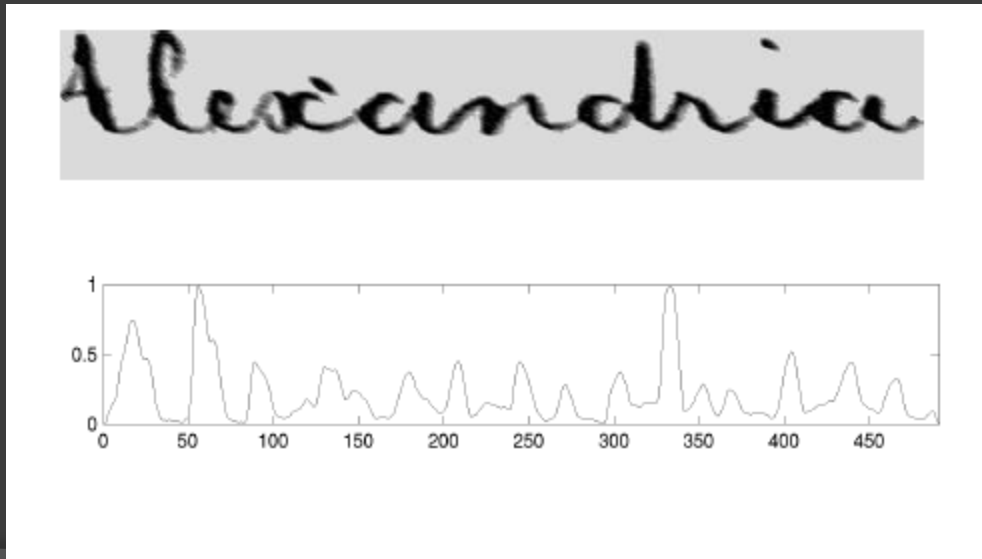
# Önceki Çalışmalar

- Euclidean Uzaklığı Eşlemesi ( EDM- Euclidean Distance Mapping ) (Per-Erik Danielsson-1980)
  - XOR işlemi



# Örnek Çalışmalar

- Dinamik Zaman Bükmesi (DTW - Dynamic Time Warping ) ( Manmatha & Rath )
  - İki zaman serisi arasındaki farkı hesaplar
  - İki resim arasındaki benzerliği bulmak için kullanılmıştır.



# Yaptığımız Çalışma

- Deneysel Kümesi
- Uyguladığımız Yöntemler
- Sonuçlar



# Yaptığımız Çalışma – Deneysel Kümesi

- George Washington el yazmaları
  - Ayıklanmış
  - Benzerlik tabloları mevcut
  - 4680 kelime

# Yaptığımız Çalışma – Deneysel Kütüphanesi

270. Letters, Orders and Instructions. October 1755.

only for the publick use, unless by particular Order from me. You are to send down a Barrel of Flints with the Arms, to Winchester, and about two thousand weight of Flour, for the two Companies of Rangers; twelve hundred of which to be delivered Captain. Lobbys and Company, at the Plantation of Charles Sellers – the rest to Captain Lobbys Company, at Nicholas Peasners.

October 26. *GW.*

25. Winchester: October 23. 1755.

Parole Hampton.

The Officers who came down from Fort Cumberland with Colonel Washington, are immediately to go Recruiting; and they are allowed until the 5. of December; at which time if they do not punctually appear at the place of Rendezvous assigned them, they will be tried by a Court Martial, for disobedience of Orders.

They are to wait upon the *vis de camp* at one of the block to receive their Recruiting Instructions – Each Officer present, to give in a Return immediately of the number of men he has enlisted. – One Subaltern, one Sergeant, one Corporal, one Drummer, and twenty-five private men, are to mount Guard to-day, and to be relieved to-morrow at ten o'clock. – All Reports and Returns are to be made to the *vis de camp*.

Letters, Orders and Instructions. October 1755-1761.

25. To Ensign Fleming, of the Virginia Regiment.

You are hereby Ordered to repair to Captain Hozgs Company at Fort Dinwiddie, with eight good men: as that Company is without a Surgeon, if you will do that duty, an allowance will be made you for it. You are to provide medicines, &c. upon the best terms you can. This Order I expect will be immediately complied with; and that no Delays be feared. You are to account with Captain Bell for your recruiting money, before you leave him. If you should arrive at Augusta Court House before Sergeant Wiper and his Party, you are to halt there until he joins, in order to escort the Ammunition, &c. for the Fort, where you will receive clothes and Arms for the men.

25. To Captain Bell, of the Virginia Regiment.

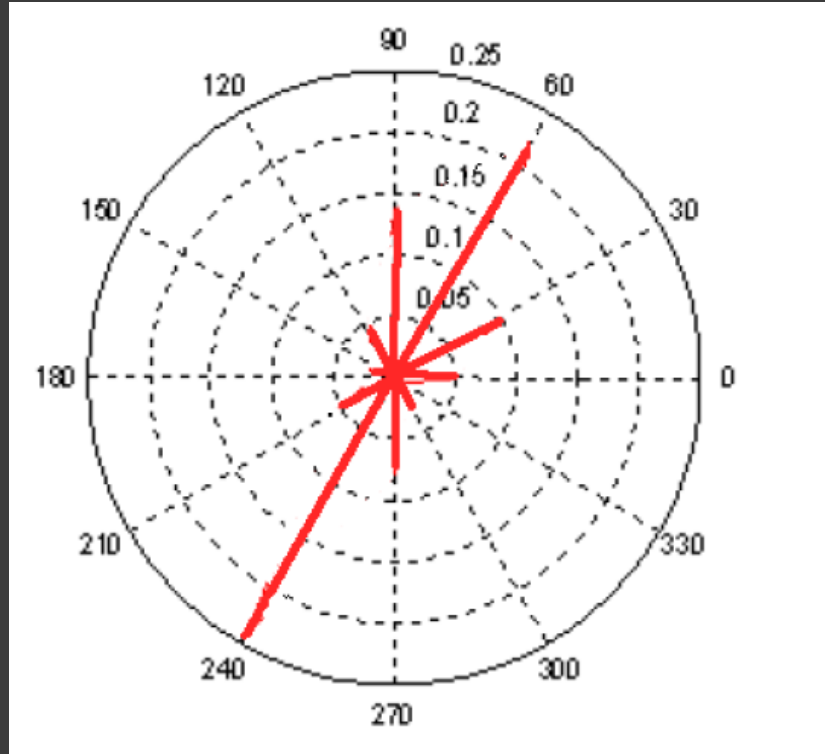
I have Ordered Ensign Fleming to Repair to Captain Hozgs Company with eight good men; which I expect you will see immediately complied with. He is to account with you for his recruiting money before he leaves you.

You are hereby ordered, peremptorily, to be at this place with what men you have, on or before the 5. of December. Your late disobedience of Orders has greatly displeas'd me. It is impossible to carry on affairs as they ought to be, when you pay so little regard to the Force of a Military Order. You must be conscious within yourself (or at least ought to be) that your Crime is sufficient to break the best Officer that ever bore a Commission.

# Yaptığımız Çalışma – Uyguladığımız Methodlar

- Eğitim Yönleri Dağılımı Tabanlı Eşleme
  - Kenar noktalardaki eğimlerin yönünün hesaplanması ve yoğunluklarının bulunması
  - İki farklı şekilde yapıldı
    - Kelime resimleri bütün olarak
    - Kelime resimleri eşit uzunluktaki kutulara ayrılarak her biri için ayrı olarak

# Yaptığımız Çalışma – Uyguladığımız Methotlar



# Yaptığımız Çalışma – Uyguladığımız Methodlar

*Letters, Orders and*

*Letters, Orders and*

# Yaptığımız Çalışma – Uyguladığımız Methodlar

A horizontal rectangular image showing the text "Letters, Orders and" written in a cursive script. The text is overlaid on a background of vertical lines, resembling a grid or a handwriting practice sheet. The text is black and the background is white.

Letters, Orders and

# Yaptığımız Çalışma – Korelasyon Katsayısı

$$\frac{\sum_m \sum_n (F_{mn} - \bar{F})(G_{mn} - \bar{G})}{\sqrt{[\sum_m \sum_n (F_{mn} - \bar{F})^2][\sum_m \sum_n (G_{mn} - \bar{G})^2]}}$$

F ve G resimleri, m ve n resmin boyutlarını,  $\bar{F}$  ve  $\bar{G}$  ise F ve G resimlerinin ortalama gri seviyelerini ifade etmektedir

# Yaptığımız Çalışma – İlinti (Correlation ) Katsayısı

- Kelime resmi bütün sayfada arandı
- İşlemi hızlandırmak için kelime ve sayfa resimleri  $\frac{1}{4}$  oranında küçültüldü
- 0-1 arasında değerler çıktı



# Yaptığımız Çalışma – 2 Yöntemin Beraber Kullanılması

- Eğim Yönleri Dağılımı Yöntemi
- Korelasyon Katsayısı Yöntemi
- Belli bir eşik değerinin altındaki değerler filtrelendi
- Filtrelenen aday resimler sıralandı

# Sonuçlar

- Bölümlenmemiş Resimlerde Eğitim Yönleri Yoğunluğu %33 kesinlik
- Bölümlenmiş Resimlerde Eğitim Yönleri Yoğunluğu %42.6 kesinlik
- Korelasyon Katsayısı %48.6 kesinlik
- İki Yöntemin Beraber Kullanılması %54.9 kesinlik

# Örnek Deneysel Sonuçları

He is to account, will do that  
ney before he you for it. Y  
tered, peremptory upon the des

see in as I detachme  
for you vis for the d  
see the im, and se

rep for that p  
erty Book to

red officer or Soldier should happen  
to be continued on the pay-roll as an  
an, for twenty-eight days, to pay for his  
I am &c.  
Edw D

# Örnek Deneysel Sonuçları

to Repair  
good medly furnished with  
ately, immediately to Fort

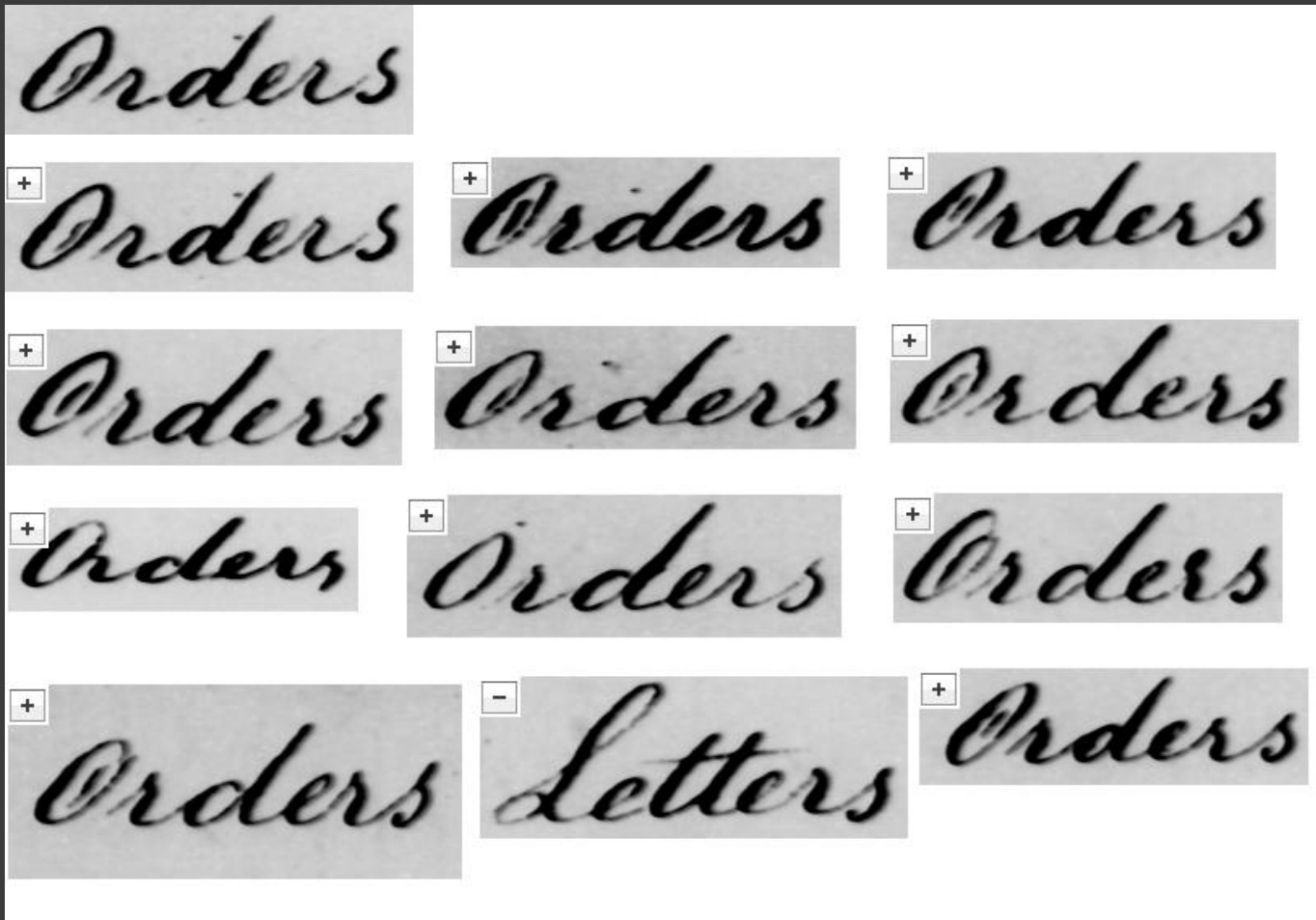
tenant King. Those which  
further or to furnish, we  
eight men, they have

use, unless  
You are  
clints with  
last two the

# Örnek Deneysel Sonuçları



# Örnek Deneysel Sonuçları



# Özet ve Tartışma

- Korelasyon Katsayısı yöntemi bu veri setinde iyi sonuçlar verdi fakat farklı yazarlar için vermeyeceği öngörüldü
- Eğitim Yönleri yoğunluğu yöntemi tek başına çok iyi sonuçlar vermedi
- Eğitim yönleri yoğunluğu yöntemi, Korelasyon katsayısı yönteminden daha hızlı

# Özet ve Tartışma

- İlerdeki çalışmalarımızda, eğitim yönlerinin yoğunluğu methodu üzerinde çalışmalar yapmayı planlıyoruz



# Sorular...

- Dinlediđiniz için Teşekkür Ederim