(Tıbbi) Görüntü İşleme Medical Image Processing

Hedef

- İki Görüntü İşlemleri
- Uygulama

İki Görüntü İşlemleri

- Add (toplama)
- Subtract (çıkarma)
- Intersect (kesişim)
- Merge (birleştirme)

Ön Şartlar

Aynı boyutlarda olmalı

Aynı renk uzayında olmalı

Aynı renk bitinde olmalı

Add (toplama)

- Her pikseller sırasıyla toplanır.
- max değeri geçenler indirgenir.
- Yeni görüntü oluşturulur.

0 0	1. Resimden			2. Resimden			Sonuç Resim		
	R1	G1	B1	R2	G2	B2	R=R1+R2	G=G1+G2	B=B1+B2
1	119	43	107	225	253	255	344	296	362
2	117	41	105	223	253	255	340	294	360
3	116	40	104	221	252	255	337	292	359
4	118	42	106	218	252	254	336	294	360
5	119	43	107	217	252	255	336	295	362
6	118	42	106	214	254	255	332	296	361
7	119	43	107	211	252	255	330	295	362
8	121	45	109	209	250	254	330	295	363
9	128	46	110	204	249	252	332	295	362
10	122	40	104	204	249	252	326	289	356

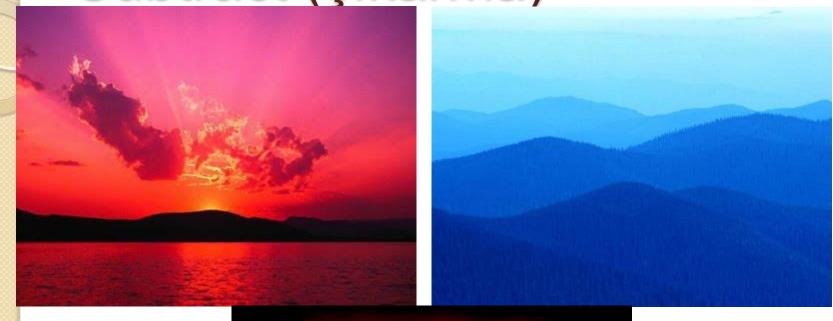
Add (toplama)







- Her pikseller sırasıyla çıkarılır.
- min değerden düşenler yükseltilir.
- Yeni görüntü oluşturulur.





Sonnet for Lena

O dear Lena, your beauty is so vast
It is hard sometimes to describe it fast.
I thought the entire world I would impress
If only your portrait I could compress.
Alas! First when I tried to use VQ
I found that your cheeks belong to only you.
Your silky hair contains a thousand lines
Hard to match with sums of discrete cosines.
And for your lips, sensual and tactual
Thirteen Crays found not the proper fractal.
And while these setbacks are all quite severe
I might have fixed them with backs here or there
But when filters took sparkle from your eyes
I said, 'Dann all this. I'll just digitize.'

Thomas Colthurst

Somet for Lens

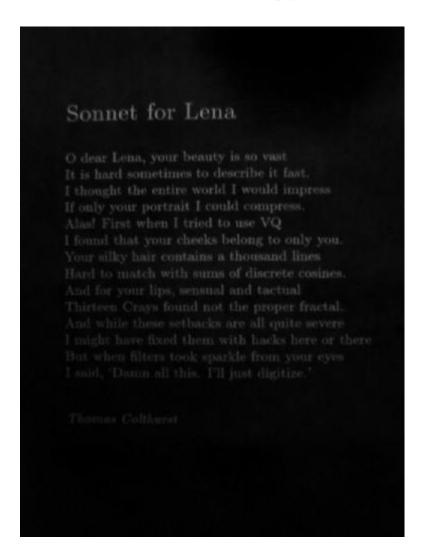
O dear Lena, year of the large sometime of the large sometime of the large throught the entire work is a supersymmetry of the large transfer of the large



Sonnet for Lena

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Sonnet for Lena

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It is hard consetimes to describe it fast.
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If only your portrait I could compress.
Alast First when I tried to use VQ
I found that your checks belong to only you.
Your sitky hair contains a thousand lines
Hard to match with some of discrete cosines.
And for your lips, sensual and tactual
Thirteen Crays found not the proper fractal.
And while these setbacks are all quite severe
I might have fixed them with backs here or there
But when filters took sparkle from your eyes
"-ond. Dan noall thes. I'll just digitize."

Inches Cattlewest

Sonnet for Lena O dear Lena, voer in **lit in har**d sometime (1977) thought the entire work in a **by your portrait** frould a dispo Book when I tried to use AQ s your checks belong to only you contains a thousand lines of discrete cosines.

Sonnet for Lena

O dear Lean, your beauty is so vest
It is hard cometimes to describe it inst.
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And while these setbacks are all quite severe
I might have fixed them with backs here or there
But when filters took sparkle from your eyes
I said. Dan i all thes I'll just digitize.

I was no Cattherest

Intersect (kesişim)

- Her pikseller sırasıyla karşılaştırılır.
- Küçük piksel değeri alınır.
- Yeni görüntü oluşturulur.



Merge (birleştirme)

- Her pikseller sırasıyla karşılaştırılır.
- Büyük piksel değeri alınır.
- Yeni görüntü oluşturulur.



İki Resimdeki 7 Fark Oyunu

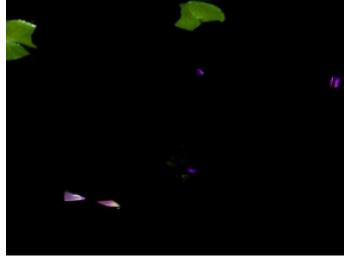
• Hangi yöntem?



İki Resimdeki 7 Fark Oyunu







Uygulama

- İki görüntü arasında
 - add
 - subtract
 - intersect
 - merge

Kaynakça

www.aforgenet.com