Biyometrik Parmak İzinin Akıllı Kartlarla Kullanımı ve Uygulaması

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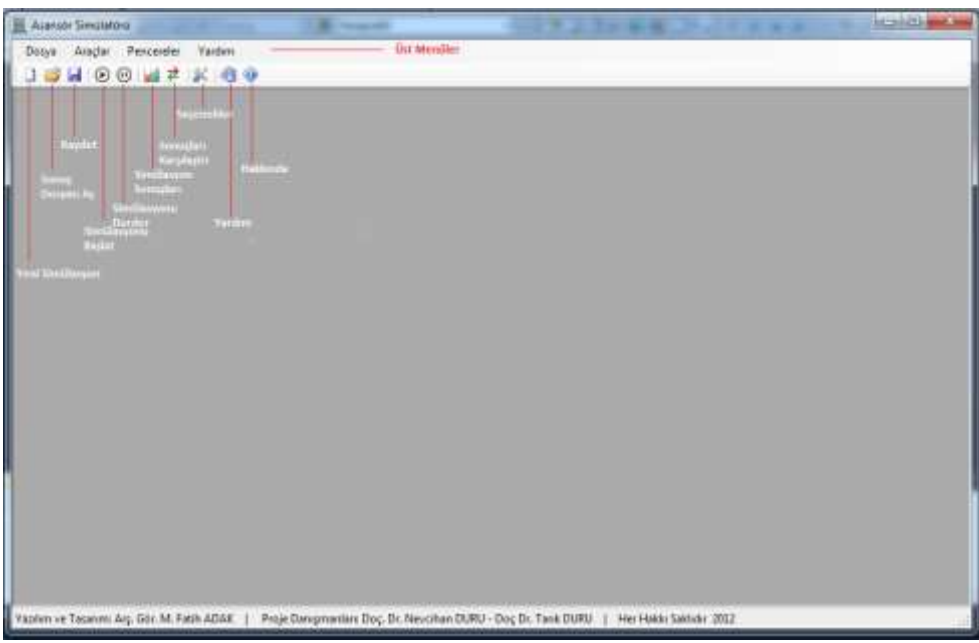
DANIŞMAN
Prof. Dr. Cemil ÖZ

Giriş

Burada sadece örnek bir tasarım verilmiş olup. Posterlerin görsel ağırlıklı olması beklenmektedir. As a social outcast since age 10, he had little difficulty working alone. And as a mathematician with built-in gift for logic and foresight, Stallman possessed the ability to circumvent design barriers that left most hackers spinning their wheels. Perhaps the most enjoyable emotion, however, was the sense of personal fulfillment. When it came to hacking, Stallman was a natural. A childhood's worth of late-night study sessions gave him the ability to work long hours with little sleep. As a social outcast since age 10, he had little difficulty working alone. And as a mathematician with built-in gift for logic and foresight, Stallman possessed the ability to circumvent design barriers that left most hackers spinning their wheels. Perhaps the most enjoyable emotion, however, was the sense of personal fulfillment. When it came to hacking, Stallman was a natural. A childhood's worth of late-night study sessions gave him the ability to work long hours with little sleep. As a social outcast since age 10, he had little difficulty working alone. And as a mathematician with built-in gift for logic and foresight, Stallman possessed the ability to circumvent design barriers that left most hackers spinning their wheels.
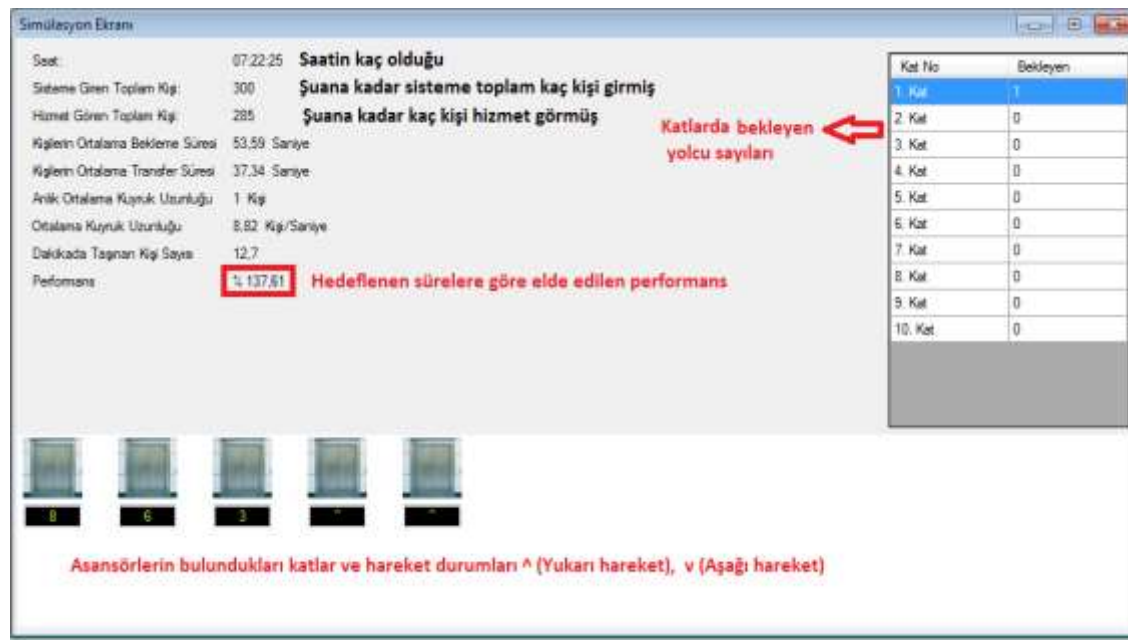
Çizelge 1: analiz sonuçları

	Average ϕ		Minimum ϕ		Average T	
k	k-means	k-means++	k-means	k-means++	k-means	k-means++
10	$1.365 \cdot 10^5$	8.47%	$1.174 \cdot 10^5$	0.93%	0.12	46.72%
25	$4.233 \cdot 10^4$	99.96%	$1.914 \cdot 10^4$	99.92%	0.90	87.79%
50	$7.750 \cdot 10^3$	99.81%	$1.474 \cdot 10^3$	0.53%	2.04	−1.62%

Geliştirilen Yazılım

Şekil 1: Simülatörün ana ekranı.

Şekil 2: Simülasyon ekranı.

Asansör Perhaps the most enjoyable emotion, however, was the sense of personal fulfillment. When it came to hacking, Stallman was a natural. A childhood's worth of late-night study sessions gave him the ability to work long hours with little sleep. As a social outcast since age 10, he had little difficulty working alone. And as a mathematician with built-in gift for logic and foresight, Stallman possessed the ability to circumvent desi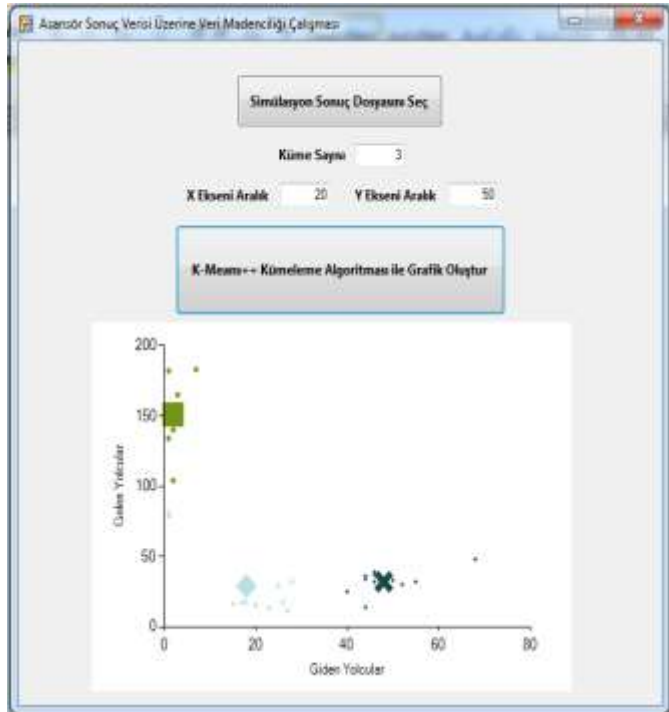gn barriers that left most hackers spinning their wheels. Perhaps the most enjoyable emotion, however, was the sense of personal fulfillment. When it came to hacking, Stallman was a natural.

Kullanılan Yöntem

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Şekil 3: Üretilen veri örneği.

Perhaps the most enjoyable emotion, however, was the sense of personal fulfillment. When it came to hacking, Stallman was a natural. A childhood's worth of late-night study sessions gave him the ability to work long hou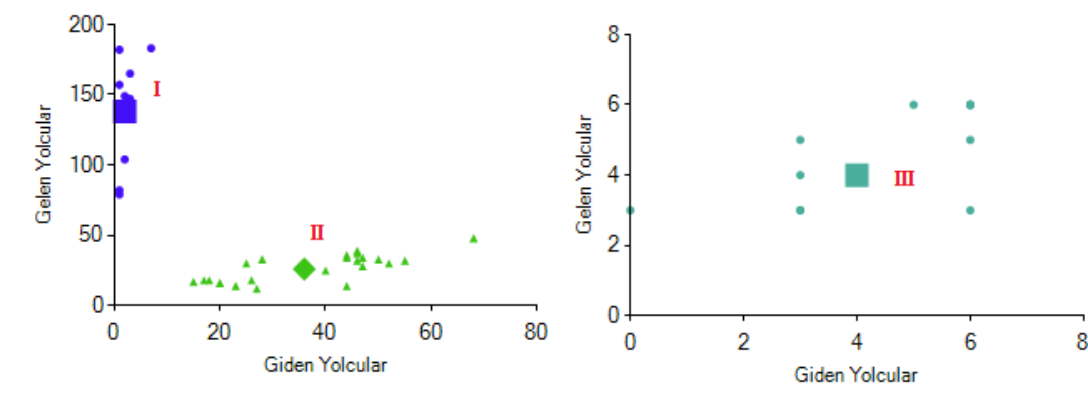rs with little sleep. As a social outcast since age 10, he had little difficulty working alone. And as a mathematician with built-in gift for logic and foresight, Stallman possessed the ability to circumvent design barriers that left most hackers spinning their wheels.

Geliştirilen Ek Program

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Şekil 4: Ek program görüntüsü.

Oluşabilecek Durumlar

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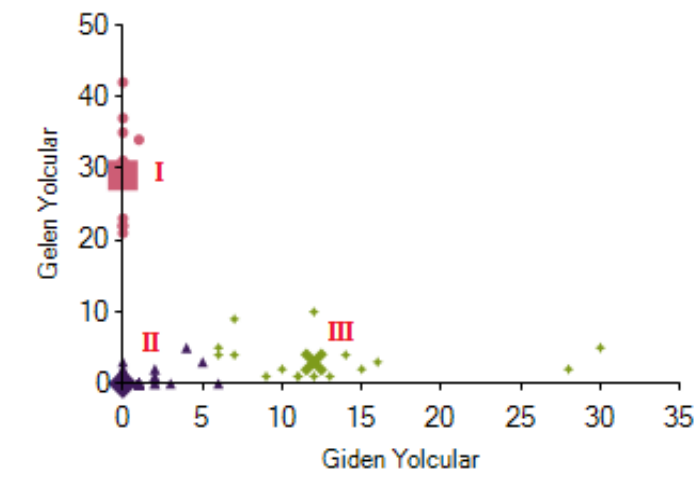

Şekil 5: Kümeleme sonucunda oluşabilecek durumlar.

Bir Okul Örneği

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Saat Dilimi	Trafik Türü	Dağılımdaki Yolcu Sayısı
8:00 – 9:00	Yukarı Yoğun	20
9:00 – 10:00	Yukarı Yoğun	1
10:00 – 11:00	Yok	-
11:00 – 12:00	Yok	-
12:00 – 13:00	İki Yönlü Trafik	12
13:00 – 14:00	Yok	-
14:00 – 15:00	Yok	-
15:00 – 16:00	Aşağı Yoğun	20
16:00 – 17:00	Aşağı Yoğun	1

Şekil 6: Okulun asansör trafiği için kümeleme sonucu

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Sonuçlar

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Ek A