



ANALYSIS OF GAIT FEATURES BETWEEN LOADED AND NORMAL GAIT

YÜKLÜ VE NORMAL YÜRÜYÜŞ ARASINDAKİ YÜRÜYÜŞ ÖZELLİKLERİNİN ANALİZİ

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Özet:

- Yük taşıyan ve normal yürüyüş arasındaki kinematik parametrelerini karşılaştırarak, ikisinin arasındaki ground truth larını çıkarıyor
- Odaklanılan iki özellik:
 - silhouette attributes attraction
 - limbs angular displacements attraction.

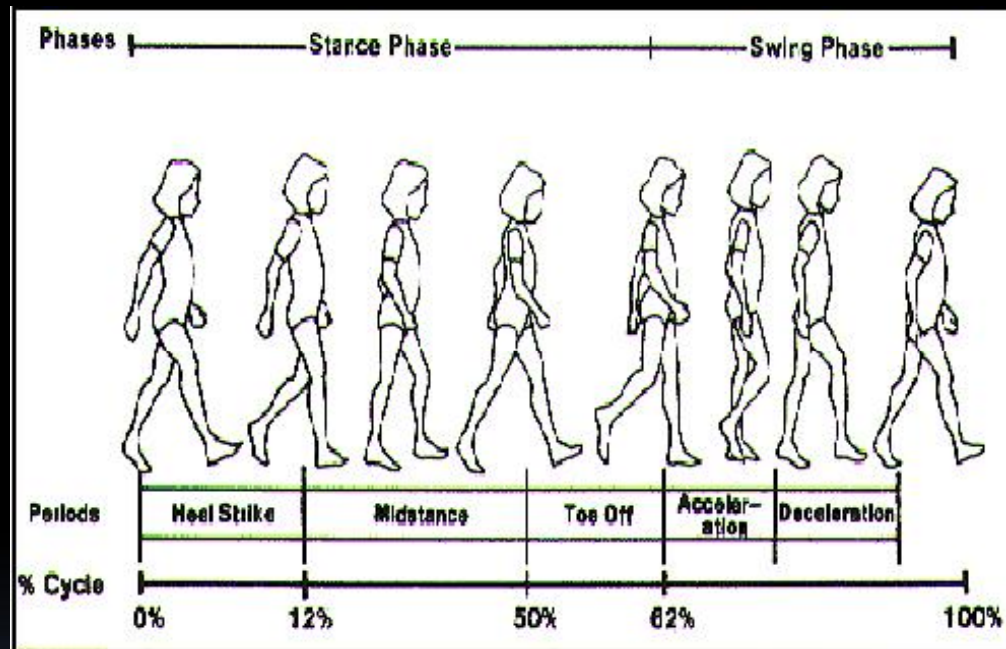
Giriş:

- Çalışmanın amacı nedir?
- Çalışma hangi bilgilerden yararlanıyor?

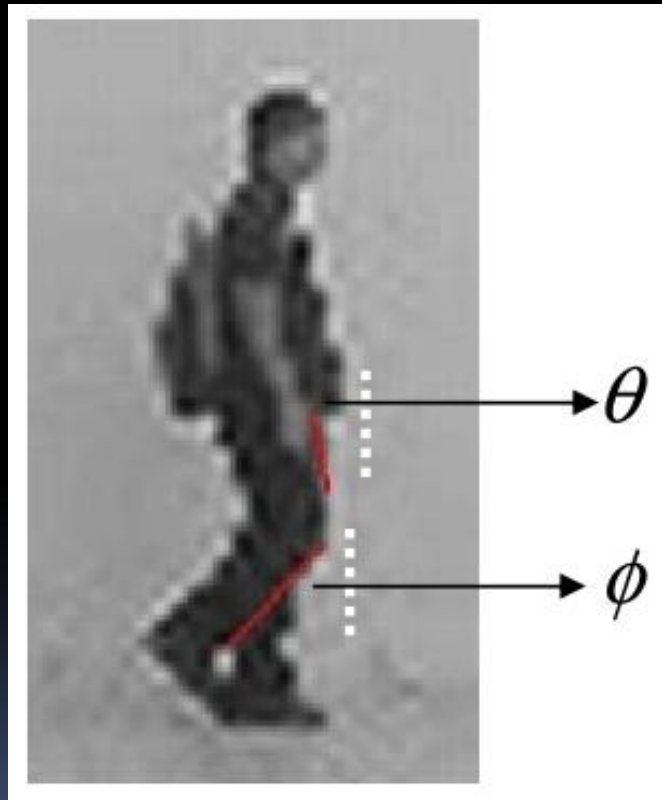
Veri Toplama

- Kaç kişiyle çalışılıyor?
- Kişiler kaç yaşlarında?
- Yüklü yürüyüşlerde yük ağırlıkları nedir?
- Yükler nasıl taşınıyor?

1 devir



Açısal Değişim Özellikleri



Problemler Nelerdir

- 1) Arka plan
- 2) Gölge
- 3) Zoom lu lens kullanımı
- 4) Bacakların konumu

Sonuç:

TABLE I. AVERAGE CORRECT CLASSIFICATION RATE (CCR)FOR KINEMATICS PARAMETER AT DIFFERENT DISPOSITION..

Kinematics parameter at different disposition	Percentage on each weight	Weight (kg)			
		5	10	15	20
		Percentage (%)			
Both moments data with weight attached at back.		56.3	39.1	52.3	49.2
Both moments data with weight attached at front.		50.0	21.1	57.0	25.0
Both moments data (standardised) with weight attached at front.		37.5	53.9	52.3	57.8
Both moments data (standardised) with weight attached at front.		56.2	57.0	52.3	57.8
Both moments data (gradient) with weight attached at back.		53.9	50.8	59.4	50.0
Both moments data (gradient) with weight attached at front.		50.0	51.6	56.3	50.8
1st order vertical moments with weight attached at back.		65.6	54.7	54.7	48.4
For 1st order vertical moments with weight attached at front.		43.8	57.8	48.4	32.8
0th order moments with weight attached at back.		100.0	100.0	100.0	96.9
0th order moments with weight attached at front.		100.0	100.0	95.3	96.9
Angular displacement data with weight loaded at back containing two gait cycles.		53.9	92.2	91.4	90.6
Angular displacement data with weight loaded at front containing two gait cycles.		91.4	92.2	91.4	89.8
Angular displacement data with weight attached at back containing only one gait cycle.		56.3	78.1	79.7	81.3
Angular displacement data with weight attached at front containing only one gait cycle		75.0	78.1	81.3	78.1

Teşekkürler