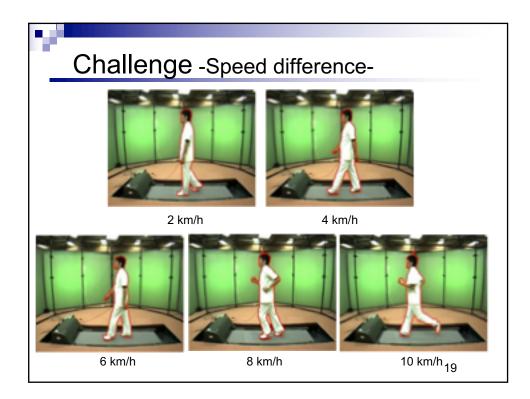
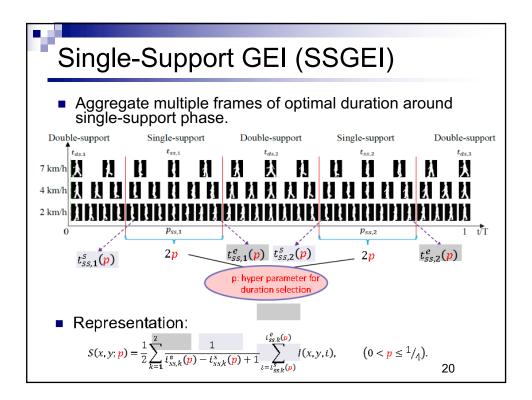
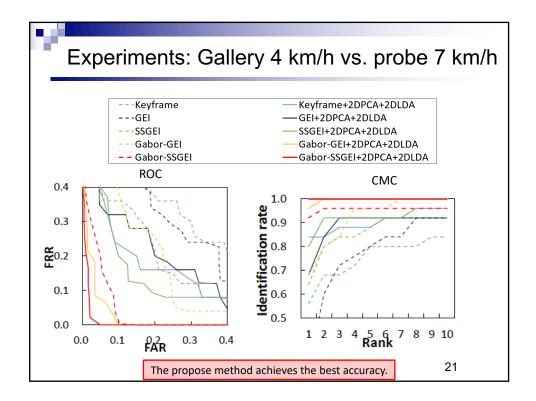
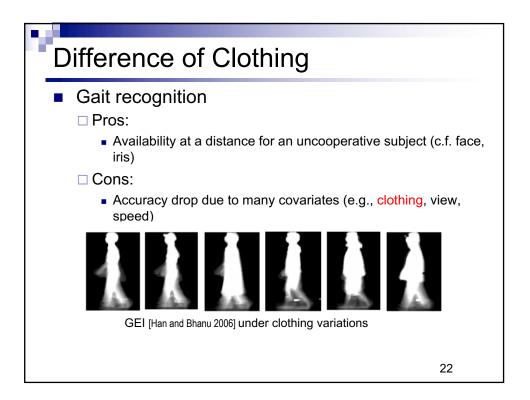


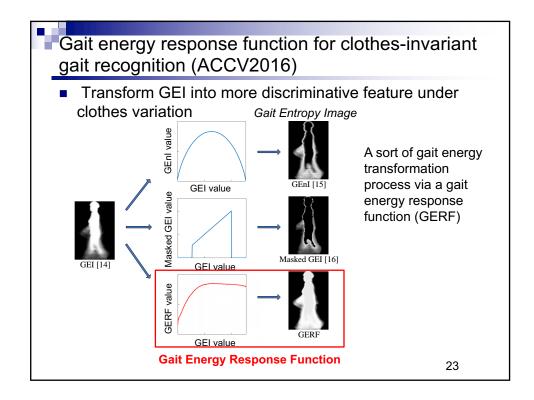
Experiment : Regenerated gait							
	Original feature	Original feature					
Available Feature region	Reconstructed feature	Available Feature region					
L20	Regenerated features	T20					
L30	法法法 法法法	тзо					
L40							
L50							
R50	表出 <b>去</b> 永秋末 表出去						
R40	101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B40					
R30	<u>表</u> 음 <b>소 소</b> 음 <b>소</b>						
R20	表头表 素质素 表质素						
	A B C Subject	A B 18 C					

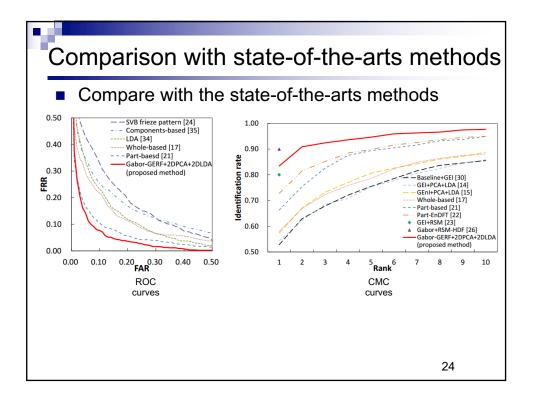


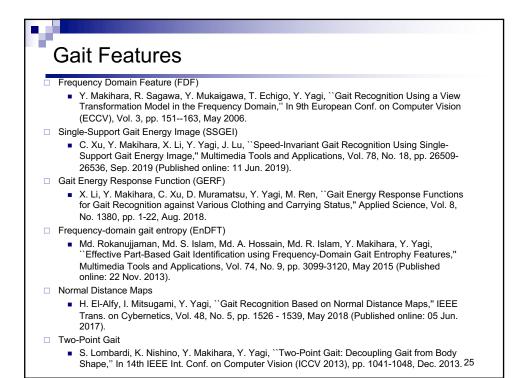


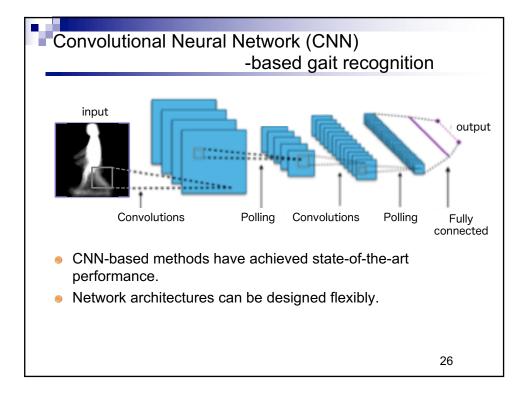


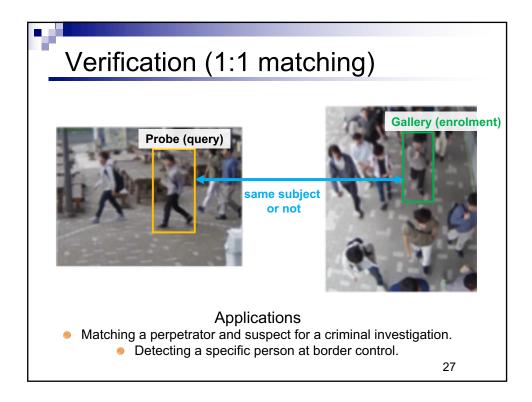


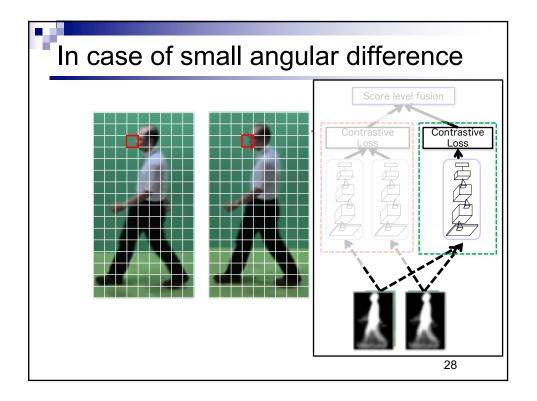


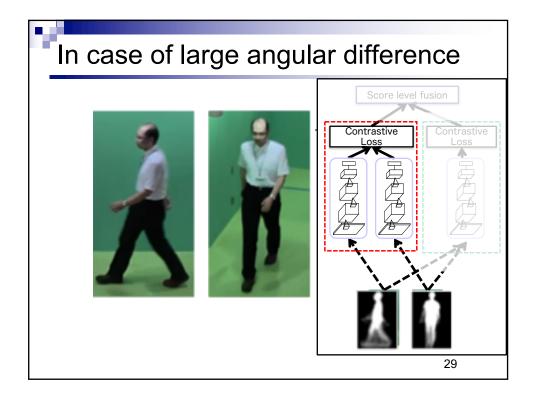


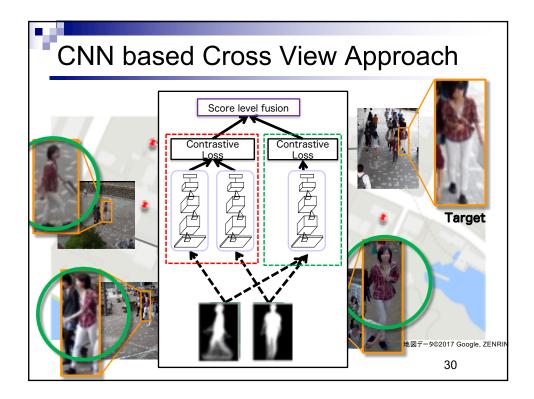


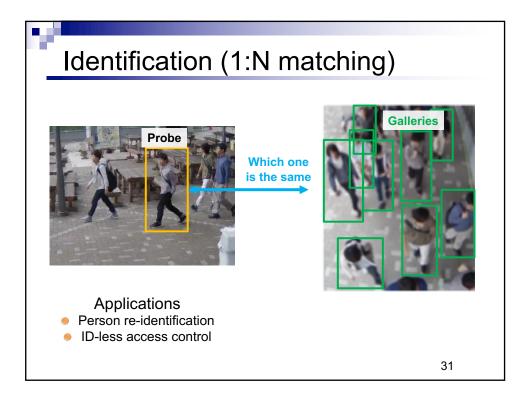


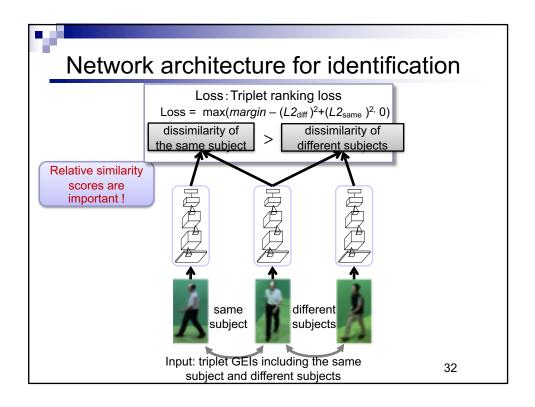


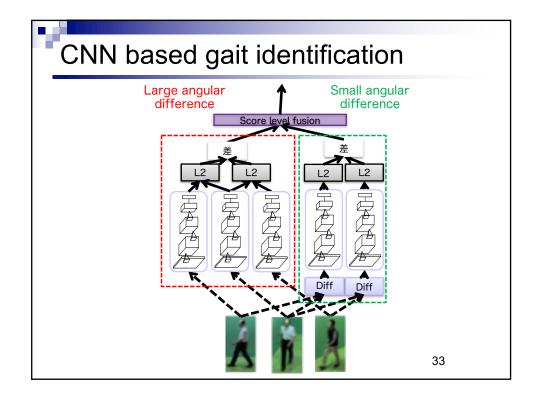


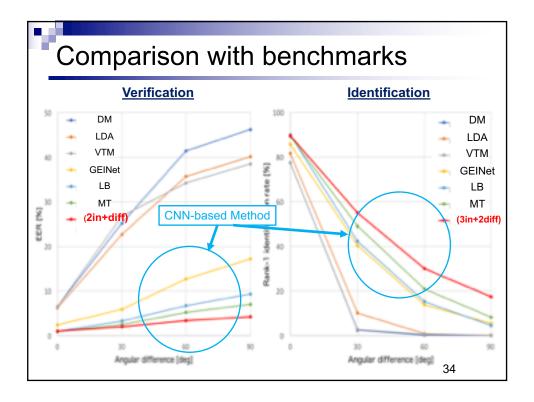


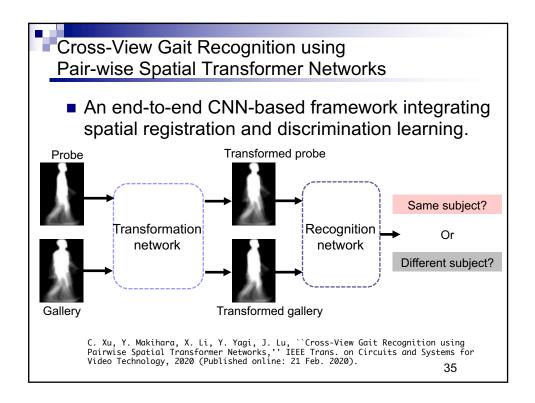


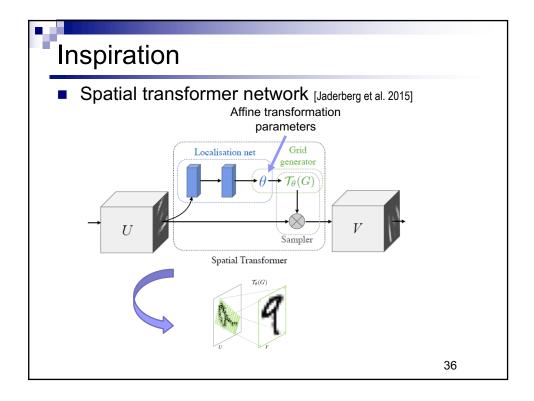


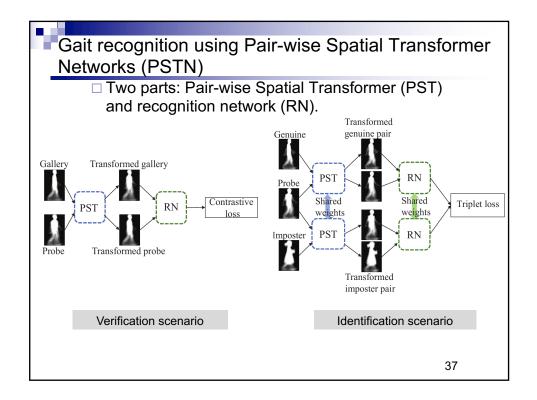






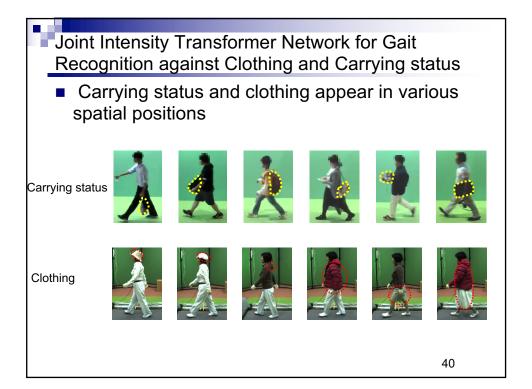


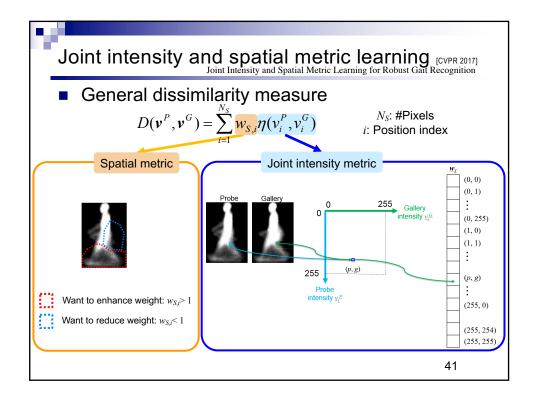


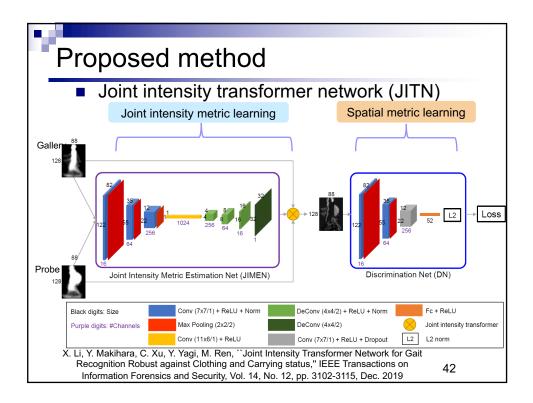


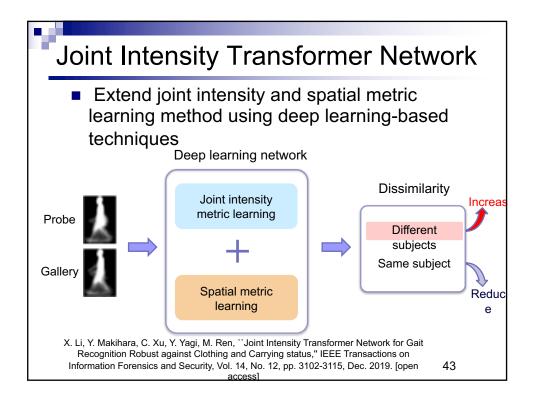
Comparison on OU-MVLP						
EER [%] of each an	gular o	differe	nce.			
Angular difference	0°	30°	60°	90°	Mean	
DM [Takemura et al. 2018]	6.5	25.2	41.4	46.2	27.2	
LDA [Otsu 1982]	6.2	22.7	35.7	40.1	24.0	
VTM [Makihara et al .2006]	6.5	26.8	34.2	38.5	25.0	
GEINet [Shiraga et al. 2016]	2.4	5.9	12.7	17.2	8.1	
Original LB [Wu et al. 2017]	1.0	3.3	6.7	9.3	4.3	
Original MT [Wu et al. 2017]	0.9	2.5	5.2	7.0	3.3	
diff + 2in [Takemura et al. 2018]	1.0	2.0	3.4	4.2	2.4	
PST-LB* + PST-2in (proposed)	0.6	1.5	2.8	3.7	1.9	
OU-ISIR Multi-View Large Population Dataset (OU-MVLP) 10307 subjects 14 views. $ \begin{array}{ccccccccccccccccccccccccccccccccccc$						

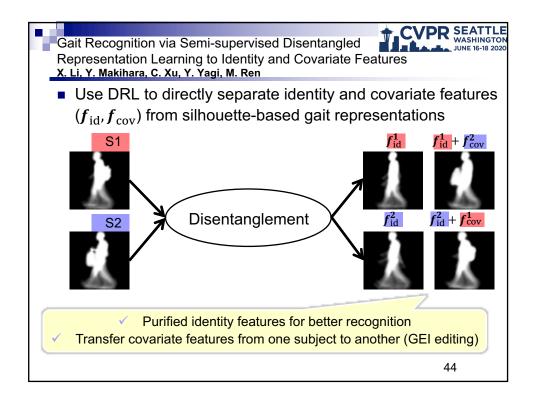
Comparison on OU-MVLP						
Rank-1 identification rate [%] of each angular difference.						
Angular difference	0°	30°	60°	90°	Mean	
DM [Takemura et al. 2018]	77.4	2.4	0.2	0.0	20.3	
LDA [Otsu 1982]	81.6	10.1	0.8	0.1	24.4	
VTM [Makihara et al .2006]	77.4	2.7	0.6	0.2	20.5	
GEINet [Shiraga et al. 2016]	85.7	40.3	13.8	5.4	40.7	
Original LB [Wu et al. 2017]	89.9	42.2	15.2	4.5	42.6	
Original MT [Wu et al. 2017]	89.3	49.0	20.9	8.2	46.9	
2diff + 3in [Takemura et al. 2018]	89.5	55.0	30.0	17.3	52.7	
PST-2LB* + PST-4in (proposed)	93.9	69.2	41.9	25.9	63.1	
				3	9	



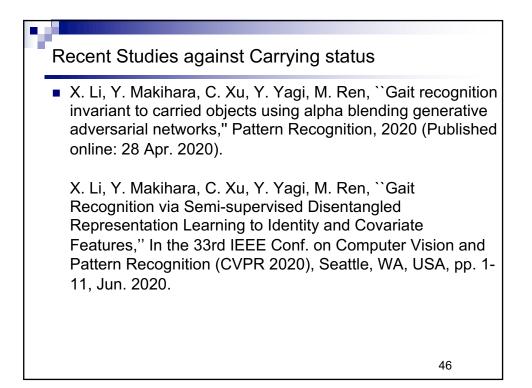




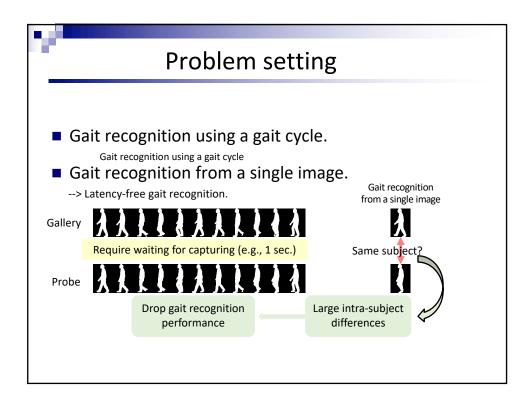


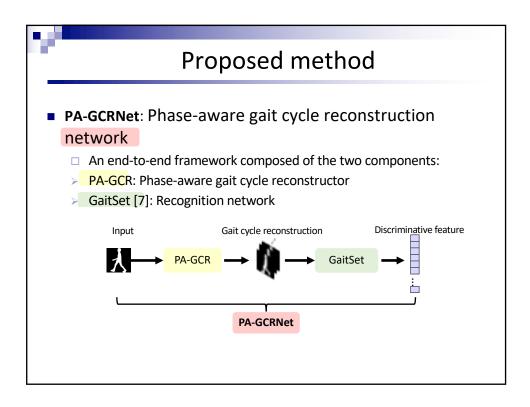


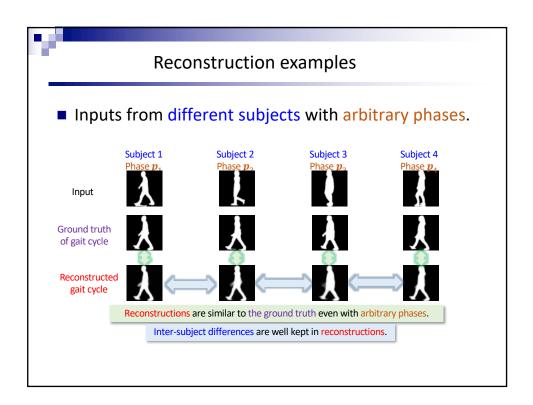
Comparison on OU-LP-Bag						
	Cooperati	ve setting	Uncooperat	tive setting		
Methods	Rank1 [%]	EER [%]	Rank1 [%]	EER [%]		
DM	17.74	18.46	15.90	29.89		
GEI w/ LDA	40.79	7.35	31.44	14.40		
GEI w/ RSVM	24.66	9.58	18.28	14.69		
GERF	38.48	7.97	31.24	11.35		
GEINet	22.26	11.29	18.52	14.68		
SIAME	49.80	2.17	50.27	2.22		
LB	74.39	1.68	70.53	1.66		
2diff / diff	73.14	1.36	72.75	1.35		
Proposed method	74.44	1.25	74.03	1.25		
				45		











2						
-	Recognition performance					
Co	mparison on OU-MV	ΊLΡ.				
	Rank-1 identification ra	ate [%] and equal e	error rate (EER) [%].			
	Method	Rank-1	EER			
	DM	4.4	41.3			
	GaitSet [7]	14.0	19.6			
	PA-GCRNet (proposed)	80.3 🔁 .5-ti	1.3			
		bet				
	The proposed method	significantly outperforms	the benchmarks.			

of repre	sen	tative	e gai	t dat	abases
Name	#Subjects	#Sequences	Covariates	#Viewpoints	Indoor (I) / Outdoor (O)
CMU MoBo	25	600	~	6	I (Treadmill)
Conversion To all	15	268	~	-	0
Georgia Tech	18	20	~	-	-
	25	100		1	0
HID-UMD	55	222	~	2	0
SOTON Small Database	12	-	~	3	I
SOTON Large Database	115	2,128	~	2	I/O
SOTON Multimodal	>300	>5,000	~	12	1
SOTON Temporal	25	2,280	~	12	I
USF HumanID	122	1,870	~	2	0
CASIA A	20	240	~	3	1
CASIA B	124	13,640	~	11	I
CASIA C	153	1,530	~	1	0
CASIA D	88	2640	~	1	0
OU-ISIR, Treadmill A	34	612	~	1	I (Treadmill)
OU-ISIR, Treadmill B	68	2,764	~	1	I (Treadmill)
OU-ISIR, Treadmill C	200	200	~	25	I (Treadmill)
OU-ISIR, Treadmill D	185	370		1	I (Treadmill)
OU-ISIR, LP	4,007	7,842		2	I
OU-ISIR, LP-Age	63,846	63,846	~	1	I
OU-ISIR, LP-Bag	62,528	178,018	~	1	I
OU-ISIR, MVLP	10,307	277,358		14	1
TUM-IITKGP	35	850	~	1	0
TUM-GAID	305	3,370	~	1	0
WOSG	155	684	~	8	0

Ad: V	Vorld's	largest gait database
Data set	#Subjects	Covariates
OUMVLP	10,307	
OULP-Bag	62,528	Carried objects in the wild
OULP-Age	63,846	Wide age range

