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ABSTRACT

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The reason is that the Abstract should be understandable in itself to be suitable for storage in textual information retrieval systems.

Example of an abstract: A biometric sample collected in an uncontrolled outdoor environment varies significantly from its indoor version. Sample variations due to outdoor environmental conditions degrade the performance of biometric systems that otherwise perform well with indoor samples. In this study, we quantitatively evaluate such performance degradation in the case of a face and a voice biometric system. We also investigate how elementary combination schemes involving min-max or z normalization followed by the sum or max fusion rule can improve performance of the multi-biometric system. We use commercial biometric systems to collect face and voice samples from the same subjects in an environment that closely mimics the operational scenario. This realistic evaluation on a dataset of 116 subjects shows that the system performance degrades in outdoor scenarios but by multimodal score fusion the performance is enhanced by 20%. We also find that max rule fusion performs better than sum rule fusion on this dataset. More interestingly, we see that by using multiple samples of the same biometric modality, the performance of a unimodal system can approach that of a multimodal system.

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at 1% FAR

Table 1. Summary of different works pertaining to face and speech fusion					
Study	Algorithm	DB Size	Covariates of interest	Top individual per-	Fusion
	used			formance	Performance
UK-BWG	Face, voice:	200	Time: 1–2 month	TAR* at 1% FAR#	_
(Mansfield et	Commercial		separation (indoor)	Face: 96.5%	
al., 2001)				Voice: 96%	
Brunelli	Face:	87	Time: 3 sessions, time	Face:	TAR =98.5%
(Brunelli	Hierarchical		unknown (indoor)	TAR = 92% at	at 0.5% FAR
and Falavigna,	correlation			4.5% FAR	
1995)	Voice:			Voice:	
	MFCC			TAR = 63% at	
				15% FAR	
Jain (Jain et al.,	Face:	50	Time: Two weeks (indoor)	TAR at 1% FAR	Face + Voice
1999)	Eigenface			Face: 43%	+
	Voice:			Voice: 96.5%	Fingerprint =
	Cepstrum			Fingerprint: 96%	98.5%
	Coeff. Based				
Sanderson	Face: PCA	43	Time: 3 sessions (indoor)	Equal Error Rate	Equal Error
(Sanderson and	Voice: MFCC		Noise addition to voice	Face: 10%	Rate 2.86%
Paliwal, 2002)				Voice: 12.41%	
Proposed study	Face, voice:	116	Location: Indoor and	TARs at 1% FAR	TAR = 98%

Outdoor (same day)

Noise addition to eye

coordinates

Indoor-Outdoor

Face: 80%

Voice: 67.5%

Table 1. Summary of different works pertaining to face and speech fusion

Commercial

[#] FAR-False Acceptance Rate

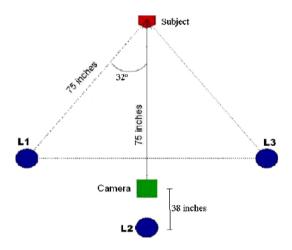


Fig. 1. Studio setup for capturing face images indoor. Three light sources L1, L2, L3 were used in conjunction with normal office lights.

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$$S'_{pg} = \frac{S_{pg} - \min(S_{pG})}{\max(S_{pG} - \min(S_{pG})}$$
(1)

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References

- [1] C. Vehlow, T. Reinhardt, D. Weiskopf, Visualizing fuzzy overlapping communities in networks, IEEE Trans. Vis. Comput. Graph. 19 (2013) 2486–2495.
- [2] M. E. J. Newman, M. Girvan, Finding and evaluating community structure in networks, Phys. Rev. E. 69 (2004) 026113.
- [3] E. Hullermeier, M. Rifqi, A fuzzy variant of the rand index for comparing clustering structures, in: in Proc. IFSA/EUSFLAT Conf., 2009, pp. 1294–1298.

Supplementary Material

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