Detection of Makeup Presentation Attacks based on Deep Face Representations



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BIOMETRICS AND INTERNET-SECURITY RESEARCH GROUP





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Results

Vulnerability of FRS towards M-PAs (in %)

MR	IAPMR	RIAPAR
274	0.000	6.274
83	2.103	2.186
)28	6.308	6.336
)28	17.056	17.084

- High vulnerability for FMRs of 0.1% and 1%
- Clear separation between bona fide (green) and zero effort impostor (orange)
- M-PA distances (red) are much higher than zero-effort impostor scores

Performance of M-PAD (in %)

tion	D-EER	BPCER10	BPCER20
	3.271	0.904	2.169
	0.701	0.361	0.361

- Attack detection accuracy below 1% D-EER
- Proposed M-PAD system outperforms other systems (see paper)

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