SlapSeg04 Analysis Report

Addendum: Detail for Various Measures of Accuracy

The following tables provide detail corresponding to Figure B-8 in the SlapSeg04 Analysis Report.

1 Various Measures of Accuracy (All Data)

The following set of tables shows the percentage of slaps in each dataset, for each segmenter, that contained a given number of fingerprints that matched against rolls above a high threshold ("High") or between high and low thresholds ("Marginal").

Note: in these tables, all true zero values are displayed as "." Values shown as "0.0%" are values less than 0.05% (but greater than 0.0%) that rounded down.

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
12kL	0	0	0.6%	1.5%	0.5%	1.4%	0.9%	0.6%	0.2%	0.3%	2.0%	2.1%	1.4%	0.3%	1.8%	5000
12kL	0	1	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	5000
12kL	0	2	0.0%	.	.	.	0.0%	0.0%	0.0%	0.0%	.	.	0.0%	0.0%	.	5000
12kL	0	3	0.0%	0.0%	0.0%	.	.	.	.	0.0%	0.0%	.	0.0%	0.0%	.	5000
12kL	0	4	.	.	.	.	.	0.0%	.	0.0%	.	.	.	.	.	5000
12kL	1	0	2.8%	1.7%	0.4%	0.0%	.	0.1%	.	0.3%	.	.	0.1%	0.0%	0.0%	5000
12kL	1	1	0.3%	0.3%	0.2%	.	.	.	.	0.1%	.	.	.	0.0%	0.0%	5000
12kL	1	2	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5000
12kL	1	3	0.0%	0.1%	0.1%	0.0%	.	.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5000
12kL	2	0	2.2%	0.4%	0.5%	0.0%	0.0%	0.1%	.	0.9%	.	.	0.0%	0.2%	.	5000
12kL	2	1	0.3%	0.4%	0.5%	0.2%	0.1%	0.3%	0.2%	0.3%	0.1%	0.2%	0.2%	0.2%	0.2%	5000
12kL	2	2	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.3%	0.2%	0.3%	0.2%	0.1%	0.1%	0.2%	5000
12kL	3	0	1.1%	2.1%	2.0%	0.6%	0.6%	2.1%	0.5%	1.6%	0.6%	0.6%	0.6%	2.2%	1.6%	5000
12kL	3	1	1.7%	2.3%	2.3%	2.0%	2.0%	1.8%	2.0%	2.3%	1.6%	1.7%	2.0%	2.1%	1.7%	5000
12kL	4	0	90.5%	90.5%	93.1%	95.4%	96.0%	94.8%	96.7%	93.8%	95.2%	95.1%	95.4%	94.6%	94.2%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
12kP	0	0	0.6%	7.0%	1.1%	5.7%	4.2%	2.0%	0.1%	1.4%	13.1%	13.2%	5.6%	2.4%	17.8%	5000
12kP	0	1	0.5%	2.0%	0.5%	0.1%	.	0.2%	0.1%	0.3%	.	0.0%	0.2%	0.9%	3.8%	5000
12kP	0	2	0.3%	0.6%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	.	.	0.1%	0.2%	0.8%	5000
12kP	0	3	0.0%	0.1%	.	.	.	0.0%	.	0.1%	0.0%	0.0%	.	.	0.1%	5000
12kP	0	4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	.	5000
12kP	1	0	5.6%	4.3%	0.7%	0.1%	.	0.4%	0.2%	0.5%	0.0%	0.0%	0.1%	0.2%	0.1%	5000
12kP	1	1	1.6%	2.0%	0.7%	0.1%	0.1%	0.2%	0.1%	0.3%	0.0%	.	0.1%	0.1%	0.2%	5000
12kP	1	2	0.3%	0.5%	0.4%	0.1%	0.1%	0.3%	0.1%	0.2%	0.1%	0.1%	0.1%	0.3%	0.1%	5000
12kP	1	3	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.3%	0.2%	0.3%	0.3%	0.1%	0.1%	0.1%	5000
12kP	2	0	6.1%	2.9%	1.2%	0.1%	0.1%	0.9%	0.4%	1.5%	0.0%	0.1%	0.2%	0.5%	0.5%	5000
12kP	2	1	1.5%	2.3%	1.6%	0.4%	0.4%	1.4%	0.8%	1.5%	0.4%	0.4%	0.5%	0.9%	0.8%	5000
12kP	2	2	0.8%	0.7%	1.1%	0.9%	0.9%	0.7%	0.9%	1.1%	0.7%	0.6%	1.0%	0.8%	0.5%	5000
12kP	3	0	4.1%	10.5%	6.8%	3.2%	2.7%	13.7%	3.6%	7.7%	1.9%	3.9%	3.3%	9.2%	8.0%	5000
12kP	3	1	5.6%	5.8%	7.6%	6.7%	6.4%	5.2%	7.7%	6.7%	5.6%	6.1%	6.8%	6.6%	5.2%	5000
12kP	4	0	73.1%	61.1%	77.9%	82.4%	84.8%	74.8%	85.6%	78.4%	78.0%	75.3%	82.0%	77.8%	62.0%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BAT	0	0	1.3%	3.4%	1.8%	5.3%	4.8%	1.0%	0.4%	0.6%	4.7%	4.7%	5.3%	0.5%	9.2%	2634
BAT	0	1	0.3%	0.6%	0.9%	0.0%	0.0%	0.0%	.	0.6%	.	0.0%	0.1%	0.3%	0.1%	2634
BAT	0	2	0.3%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.3%	0.2%	0.2%	0.1%	0.2%	.	2634
BAT	0	3	0.2%	0.1%	0.2%	0.1%	0.1%	0.0%	0.2%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	2634
BAT	0	4	0.0%	.	.	0.0%	0.0%	.	0.1%	0.0%	.	0.0%	.	.	.	2634
BAT	1	0	5.9%	2.5%	1.0%	0.1%	0.1%	0.2%	0.2%	1.0%	0.2%	0.1%	0.1%	0.1%	0.2%	2634
BAT	1	1	1.0%	0.6%	0.3%	0.2%	0.2%	0.4%	0.3%	0.5%	0.2%	0.3%	0.2%	0.5%	0.3%	2634
BAT	1	2	0.3%	0.3%	0.3%	0.2%	0.2%	0.5%	0.3%	0.4%	0.3%	0.3%	0.3%	0.3%	0.1%	2634
BAT	1	3	0.1%	0.1%	0.1%	.	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.2%	0.2%	0.1%	2634
BAT	2	0	4.2%	1.5%	1.3%	0.5%	0.4%	0.9%	0.6%	1.4%	0.3%	0.5%	0.6%	0.8%	0.6%	2634
BAT	2	1	1.5%	1.7%	1.4%	1.1%	1.1%	1.1%	1.1%	1.3%	1.0%	0.8%	0.8%	0.9%	0.9%	2634
BAT	2	2	0.7%	0.8%	0.8%	0.6%	0.7%	0.6%	1.1%	0.8%	0.8%	0.8%	0.5%	0.8%	0.5%	2634
BAT	3	0	3.7%	7.7%	5.2%	3.0%	3.2%	6.6%	3.9%	4.8%	2.8%	2.8%	3.3%	4.7%	5.3%	2634
BAT	3	1	4.7%	4.9%	5.4%	5.2%	5.1%	5.0%	5.6%	5.3%	5.5%	5.3%	5.1%	5.2%	4.1%	2634
BAT	4	0	75.9%	75.7%	81.2%	83.5%	83.9%	83.4%	86.1%	82.8%	84.0%	84.1%	83.4%	85.6%	78.6%	2634

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BEN	0	0	0.0%	0.7%	0.2%	0.4%	0.3%	0.1%	0.0%	0.0%	0.4%	0.5%	0.4%	0.2%	1.1%	5000
BEN	0	1	0.0%	0.2%	0.1%	.	.	.	0.0%	.	.	.	.	.	0.0%	5000
BEN	0	2	.	0.1%	0.1%	0.0%	0.0%	0.0%	.	0.0%	.	.	.	0.0%	.	5000
BEN	0	3	0.1%	0.2%	0.2%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	5000
BEN	0	4	0.3%	0.3%	0.3%	0.3%	0.4%	0.2%	0.3%	0.4%	0.3%	0.3%	0.3%	0.2%	0.3%	5000
BEN	1	0	1.0%	0.4%	0.2%	.	.	0.1%	.	0.2%	.	.	.	.	0.0%	5000
BEN	1	1	0.2%	0.2%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5000
BEN	1	2	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	.	0.0%	0.1%	0.1%	5000
BEN	1	3	0.5%	0.4%	0.5%	0.5%	0.4%	0.4%	0.5%	0.4%	0.5%	0.6%	0.5%	0.5%	0.4%	5000
BEN	2	0	1.0%	0.4%	0.3%	0.0%	.	0.1%	.	0.4%	.	.	.	0.1%	.	5000
BEN	2	1	0.2%	0.4%	0.4%	0.2%	0.1%	0.5%	0.1%	0.3%	0.2%	0.2%	0.2%	0.2%	0.1%	5000
BEN	2	2	1.2%	1.0%	1.0%	0.9%	1.0%	1.0%	1.2%	1.3%	1.0%	1.0%	0.9%	1.0%	1.1%	5000
BEN	3	0	0.4%	1.1%	1.5%	0.3%	0.3%	0.8%	0.4%	0.8%	0.2%	0.2%	0.2%	1.0%	0.3%	5000
BEN	3	1	3.2%	3.8%	3.7%	3.3%	3.5%	3.2%	3.0%	3.8%	3.2%	3.2%	3.4%	3.5%	3.3%	5000
BEN	4	0	91.7%	90.5%	91.2%	93.9%	93.8%	93.3%	94.3%	92.2%	94.1%	94.1%	93.9%	93.0%	93.1%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
II	0	0	3.1%	4.8%	1.6%	13.3%	7.0%	7.7%	2.0%	1.7%	13.5%	13.2%	13.5%	1.6%	16.4%	5000
II	0	1	1.0%	1.1%	0.6%	0.2%	0.1%	0.5%	0.3%	0.7%	0.2%	0.2%	0.2%	0.5%	0.2%	5000
II	0	2	0.1%	0.3%	0.2%	0.0%	0.1%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.2%	0.1%	5000
II	0	3	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	.	.	0.0%	.	0.0%	5000
II	0	4	0.0%	.	.	.	0.0%	.	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	5000
II	1	0	6.3%	2.5%	1.8%	0.2%	0.1%	1.2%	0.2%	1.1%	0.0%	0.0%	0.1%	0.3%	0.1%	5000
II	1	1	1.7%	1.3%	1.0%	0.3%	0.3%	0.7%	0.4%	0.9%	0.1%	0.1%	0.3%	0.4%	0.2%	5000
II	1	2	0.3%	0.6%	0.6%	0.2%	0.2%	0.3%	0.3%	0.4%	0.2%	0.2%	0.2%	0.4%	0.2%	5000
II	1	3	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.3%	0.1%	0.1%	0.2%	0.2%	0.1%	5000
II	2	0	8.2%	1.7%	1.3%	0.4%	0.4%	2.3%	0.6%	1.6%	0.3%	0.3%	0.4%	0.8%	0.3%	5000
II	2	1	1.9%	1.8%	2.6%	1.4%	1.5%	2.6%	1.9%	2.3%	1.4%	1.4%	1.6%	1.8%	1.4%	5000
II	2	2	0.7%	0.8%	1.1%	0.8%	1.1%	0.7%	1.0%	1.2%	0.8%	0.9%	0.8%	1.0%	0.8%	5000
II	3	0	4.8%	6.5%	6.5%	3.7%	4.0%	12.3%	6.3%	7.4%	3.0%	3.3%	3.6%	6.0%	5.1%	5000
II	3	1	5.1%	6.4%	7.2%	6.7%	6.9%	5.1%	7.6%	7.9%	6.4%	6.4%	6.6%	7.3%	5.3%	5000
II	4	0	66.3%	72.1%	75.2%	72.5%	78.1%	66.4%	79.0%	74.0%	73.9%	73.7%	72.5%	79.6%	69.5%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
Ohiol	0	0	0.7%	0.3%	0.1%	0.6%	0.4%	.	.	.	0.8%	0.8%	0.6%	.	1.2%	1850
Ohiol	0	1	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	1850
Ohiol	1	0	2.2%	2.0%	0.2%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%	.	0.1%	.	0.1%	1850
Ohiol	1	1	0.1%	0.2%	0.1%	.	.	.	.	.	.	0.1%	.	0.1%	.	1850
Ohiol	2	0	2.7%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	1850
Ohiol	2	1	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	.	0.1%	.	.	0.1%	0.1%	0.1%	1850
Ohiol	2	2	.	0.1%	0.1%	.	.	0.1%	0.1%	.	0.1%	0.1%	.	.	.	1850
Ohiol	3	0	0.7%	1.8%	0.9%	0.4%	0.4%	1.3%	0.5%	1.3%	0.2%	0.2%	0.5%	1.1%	2.7%	1850
Ohiol	3	1	0.7%	1.1%	1.2%	0.4%	0.7%	0.5%	0.9%	1.1%	0.8%	0.7%	0.6%	0.8%	1.0%	1850
Ohiol	4	0	92.8%	94.0%	97.0%	98.2%	98.2%	97.8%	98.3%	97.2%	98.0%	98.1%	98.1%	97.8%	94.7%	1850

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
TX	0	0	1.7%	9.3%	3.9%	6.2%	5.6%	1.5%	0.3%	4.3%	8.1%	11.4%	6.3%	1.8%	9.7%	5000
TX	0	1	0.7%	3.0%	1.4%	0.1%	0.1%	0.3%	0.0%	1.3%	0.0%	0.1%	0.1%	0.7%	1.5%	5000
TX	0	2	0.3%	0.6%	0.4%	.	0.0%	0.1%	.	0.2%	.	.	.	0.1%	0.4%	5000
TX	0	3	0.1%	0.2%	0.0%	0.0%	.	0.0%	0.0%	0.1%	.	0.0%	0.0%	0.0%	0.0%	5000
TX	0	4	0.0%	.	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	.	.	5000
TX	1	0	6.6%	4.3%	1.3%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	.	0.1%	0.2%	0.1%	5000
TX	1	1	2.0%	1.7%	0.6%	0.1%	0.0%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.1%	5000
TX	1	2	0.3%	0.5%	0.3%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	5000
TX	1	3	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.1%	5000
TX	2	0	6.1%	2.3%	1.3%	0.2%	0.1%	0.7%	0.3%	0.8%	0.1%	0.2%	0.2%	0.5%	0.6%	5000
TX	2	1	1.4%	1.8%	1.3%	0.5%	0.5%	0.7%	0.5%	0.7%	0.4%	0.4%	0.5%	0.9%	0.6%	5000
TX	2	2	0.7%	0.6%	0.7%	0.8%	0.6%	1.0%	1.0%	0.7%	0.9%	0.9%	0.8%	0.7%	0.9%	5000
TX	3	0	5.1%	8.2%	7.9%	2.9%	2.8%	13.3%	4.3%	5.5%	2.4%	2.5%	3.0%	5.8%	7.7%	5000
TX	3	1	5.3%	5.3%	6.7%	7.0%	6.5%	5.2%	8.0%	7.3%	6.3%	6.1%	6.5%	7.3%	5.4%	5000
TX	4	0	69.7%	62.1%	73.9%	81.9%	83.5%	76.8%	85.1%	78.1%	81.5%	78.1%	82.1%	81.6%	72.6%	5000

2 Various Measures of Accuracy (Excluding Problem Rolls)

The following set of tables shows the same data, but excluding all slaps for which the ***rolled*** data had serious data errors or exceptionally poor quality.

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
12kL	0	0	0.5%	1.4%	0.4%	1.3%	0.8%	0.5%	0.1%	0.2%	1.9%	2.0%	1.3%	0.3%	1.7%	4975
12kL	0	1	0.2%	0.2%	0.1%	.	.	.	.	0.0%	.	.	0.0%	0.0%	0.1%	4975
12kL	0	2	0.0%	.	.	.	.	0.0%	.	0.0%	.	.	.	0.0%	.	4975
12kL	0	3	.	.	.	.	.	.	.	0.0%	.	.	.	.	.	4975
12kL	0	4	.	.	.	.	.	0.0%	.	0.0%	.	.	.	.	.	4975
12kL	1	0	2.8%	1.7%	0.4%	0.0%	.	0.1%	.	0.3%	.	.	0.0%	0.0%	0.0%	4975
12kL	1	1	0.3%	0.3%	0.2%	.	.	.	.	0.0%	.	.	.	0.0%	.	4975
12kL	1	2	0.1%	0.0%	0.1%	0.0%	0.0%	.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4975
12kL	1	3	.	0.1%	0.1%	0.0%	.	.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4975
12kL	2	0	2.2%	0.4%	0.5%	0.0%	0.0%	0.1%	.	0.9%	.	.	0.0%	0.1%	.	4975
12kL	2	1	0.1%	0.2%	0.3%	0.1%	0.0%	0.2%	0.1%	0.2%	0.0%	0.1%	0.1%	0.1%	0.1%	4975
12kL	2	2	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	4975
12kL	3	0	1.1%	2.0%	1.8%	0.5%	0.5%	2.0%	0.4%	1.5%	0.5%	0.5%	0.5%	2.1%	1.5%	4975
12kL	3	1	1.6%	2.3%	2.3%	1.9%	2.0%	1.7%	1.9%	2.3%	1.5%	1.6%	1.9%	2.1%	1.7%	4975
12kL	4	0	90.9%	91.0%	93.5%	95.8%	96.4%	95.3%	97.1%	94.3%	95.7%	95.5%	95.9%	95.1%	94.7%	4975

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
12kP	0	0	0.6%	6.9%	1.1%	5.6%	3.9%	2.0%	0.1%	1.4%	12.8%	12.9%	5.5%	2.4%	17.8%	4967
12kP	0	1	0.5%	2.0%	0.5%	0.1%	.	0.2%	0.1%	0.3%	.	0.0%	0.2%	0.9%	3.7%	4967
12kP	0	2	0.3%	0.5%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	.	.	0.1%	0.2%	0.8%	4967
12kP	0	3	0.0%	0.1%	.	.	.	0.0%	.	0.1%	0.0%	.	.	.	0.1%	4967
12kP	0	4	.	.	.	.	0.0%	.	0.0%	.	.	0.0%	.	.	.	4967
12kP	1	0	5.5%	4.3%	0.7%	0.1%	.	0.4%	0.2%	0.5%	0.0%	0.0%	0.1%	0.2%	0.1%	4967
12kP	1	1	1.4%	1.9%	0.6%	0.1%	0.1%	0.1%	0.1%	0.3%	0.0%	.	0.1%	0.1%	0.2%	4967
12kP	1	2	0.2%	0.5%	0.3%	0.1%	0.1%	0.2%	0.1%	0.2%	0.0%	0.1%	0.1%	0.2%	0.1%	4967
12kP	1	3	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	4967
12kP	2	0	6.1%	2.9%	1.2%	0.1%	0.1%	0.9%	0.4%	1.5%	0.0%	0.1%	0.2%	0.5%	0.5%	4967
12kP	2	1	1.4%	2.3%	1.6%	0.3%	0.4%	1.3%	0.7%	1.4%	0.3%	0.4%	0.4%	0.8%	0.7%	4967
12kP	2	2	0.7%	0.7%	1.0%	0.8%	0.9%	0.6%	0.8%	1.0%	0.6%	0.6%	0.9%	0.8%	0.5%	4967
12kP	3	0	4.1%	10.5%	6.8%	3.2%	2.7%	13.7%	3.5%	7.7%	1.9%	3.9%	3.3%	9.1%	8.1%	4967
12kP	3	1	5.6%	5.8%	7.5%	6.6%	6.3%	5.2%	7.6%	6.6%	5.6%	6.0%	6.7%	6.5%	5.0%	4967
12kP	4	0	73.6%	61.5%	78.4%	82.9%	85.4%	75.3%	86.2%	78.9%	78.5%	75.8%	82.5%	78.3%	62.4%	4967

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BAT	0	0	1.1%	2.9%	1.4%	4.6%	4.0%	0.6%	0.3%	0.5%	4.2%	4.2%	4.5%	0.4%	8.3%	2523
BAT	0	1	0.2%	0.4%	0.6%	.	.	.	.	0.3%	.	.	.	0.2%	.	2523
BAT	0	2	0.2%	.	0.0%	.	.	0.0%	0.0%	0.1%	.	.	0.0%	0.0%	.	2523
BAT	0	3	0.0%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	.	.	0.0%	0.0%	0.0%	2523
BAT	0	4	0.0%	.	.	0.0%	.	.	0.0%	0.0%	.	0.0%	.	.	.	2523
BAT	1	0	5.8%	2.5%	0.9%	0.1%	0.1%	0.2%	0.1%	0.9%	0.1%	0.1%	0.1%	0.1%	0.1%	2523
BAT	1	1	0.7%	0.4%	0.1%	0.0%	0.1%	0.0%	.	0.2%	.	0.0%	.	0.0%	0.1%	2523
BAT	1	2	0.2%	0.1%	0.1%	0.1%	0.1%	0.3%	0.2%	0.3%	0.2%	0.2%	0.2%	0.3%	0.0%	2523
BAT	1	3	0.0%	0.1%	0.1%	.	0.0%	0.0%	0.0%	.	0.0%	0.0%	0.1%	0.2%	0.0%	2523
BAT	2	0	4.0%	1.1%	1.0%	0.2%	0.2%	0.4%	0.3%	1.1%	0.1%	0.2%	0.3%	0.3%	0.3%	2523
BAT	2	1	0.9%	1.2%	0.9%	0.6%	0.4%	0.5%	0.6%	0.7%	0.5%	0.3%	0.4%	0.4%	0.5%	2523
BAT	2	2	0.6%	0.6%	0.6%	0.5%	0.6%	0.6%	0.8%	0.7%	0.6%	0.6%	0.3%	0.5%	0.4%	2523
BAT	3	0	2.9%	7.2%	4.4%	2.1%	2.3%	5.7%	2.8%	3.9%	1.8%	1.8%	2.4%	3.7%	4.4%	2523
BAT	3	1	4.3%	4.6%	5.1%	4.8%	4.6%	4.6%	5.1%	4.8%	5.0%	4.9%	4.6%	4.7%	3.8%	2523
BAT	4	0	79.0%	79.0%	84.7%	87.0%	87.4%	87.0%	89.6%	86.2%	87.4%	87.5%	86.9%	89.1%	82.0%	2523

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BEN	0	0	0.0%	0.7%	0.2%	0.4%	0.3%	0.1%	0.0%	0.0%	0.4%	0.5%	0.4%	0.2%	1.1%	4940
BEN	0	1	0.0%	0.2%	0.1%	.	.	.	0.0%	.	.	.	.	.	0.0%	4940
BEN	0	2	.	0.1%	0.1%	0.0%	0.0%	.	.	0.0%	.	.	.	0.0%	.	4940
BEN	0	3	0.0%	0.1%	0.1%	.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4940
BEN	0	4	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%	4940
BEN	1	0	1.1%	0.4%	0.2%	.	.	0.1%	.	0.2%	.	.	.	.	0.0%	4940
BEN	1	1	0.1%	0.2%	0.1%	0.0%	.	0.0%	.	0.0%	0.0%	.	0.0%	.	0.0%	4940
BEN	1	2	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	.	0.0%	0.0%	0.1%	4940
BEN	1	3	0.2%	0.2%	0.2%	0.2%	0.3%	0.2%	0.2%	0.2%	0.2%	0.3%	0.2%	0.2%	0.2%	4940
BEN	2	0	1.1%	0.4%	0.3%	0.0%	.	0.1%	.	0.4%	.	.	.	0.1%	.	4940
BEN	2	1	0.1%	0.3%	0.3%	0.1%	0.1%	0.4%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	4940
BEN	2	2	1.0%	0.9%	0.8%	0.6%	0.7%	0.8%	0.9%	1.0%	0.7%	0.7%	0.6%	0.8%	0.8%	4940
BEN	3	0	0.4%	1.1%	1.5%	0.3%	0.3%	0.8%	0.4%	0.8%	0.2%	0.2%	0.2%	1.0%	0.3%	4940
BEN	3	1	3.0%	3.7%	3.6%	3.1%	3.3%	3.1%	2.9%	3.7%	3.1%	3.0%	3.2%	3.3%	3.2%	4940
BEN	4	0	92.8%	91.6%	92.3%	95.0%	94.9%	94.3%	95.4%	93.3%	95.2%	95.2%	95.0%	94.1%	94.2%	4940

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
II	0	0	2.9%	4.6%	1.4%	12.8%	6.6%	7.4%	1.8%	1.5%	13.1%	12.8%	13.1%	1.4%	16.0%	4888
II	0	1	0.8%	0.9%	0.5%	0.1%	0.1%	0.3%	0.1%	0.5%	0.1%	0.0%	0.1%	0.3%	0.1%	4888
II	0	2	0.1%	0.1%	0.1%	.	0.0%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	4888
II	0	3	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	.	.	0.0%	.	0.0%	4888
II	0	4	0.0%	.	.	.	0.0%	.	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	4888
II	1	0	6.3%	2.5%	1.8%	0.1%	0.1%	1.2%	0.2%	1.1%	0.0%	0.0%	0.1%	0.2%	0.1%	4888
II	1	1	1.5%	1.1%	0.7%	0.2%	0.2%	0.5%	0.2%	0.7%	0.0%	0.0%	0.1%	0.2%	0.1%	4888
II	1	2	0.2%	0.4%	0.4%	0.2%	0.1%	0.2%	0.2%	0.3%	0.2%	0.1%	0.2%	0.3%	0.2%	4888
II	1	3	0.0%	0.1%	0.2%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	4888
II	2	0	8.4%	1.7%	1.2%	0.4%	0.3%	2.2%	0.6%	1.6%	0.2%	0.2%	0.3%	0.7%	0.3%	4888
II	2	1	1.5%	1.3%	2.1%	0.9%	0.9%	2.0%	1.1%	1.6%	0.8%	0.8%	1.0%	1.1%	0.9%	4888
II	2	2	0.7%	0.8%	1.0%	0.7%	1.0%	0.6%	0.9%	1.1%	0.8%	0.8%	0.7%	0.9%	0.8%	4888
II	3	0	4.8%	6.4%	6.4%	3.6%	3.8%	12.4%	6.1%	7.4%	2.8%	3.0%	3.5%	5.9%	5.1%	4888
II	3	1	5.1%	6.4%	7.2%	6.7%	6.9%	5.1%	7.7%	8.0%	6.3%	6.4%	6.6%	7.3%	5.2%	4888
II	4	0	67.8%	73.7%	76.9%	74.2%	79.9%	67.9%	80.8%	75.7%	75.6%	75.4%	74.2%	81.4%	71.1%	4888

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
Ohiol	0	0	0.7%	0.3%	0.1%	0.7%	0.4%	.	.	.	0.8%	0.8%	0.7%	.	1.2%	1846
Ohiol	0	1	.	0.1%	0.1%	.	.	.	.	.	.	.	.	.	0.1%	1846
Ohiol	1	0	2.2%	2.0%	0.2%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%	.	0.1%	.	0.1%	1846
Ohiol	1	1	0.1%	0.2%	0.1%	.	.	.	.	.	.	0.1%	.	0.1%	.	1846
Ohiol	2	0	2.7%	0.2%	0.2%	.	.	.	0.1%	0.1%	.	.	.	.	0.1%	1846
Ohiol	2	1	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	.	.	.	.	.	0.1%	.	1846
Ohiol	2	2	.	.	.	.	.	.	0.1%	.	.	.	.	.	.	1846
Ohiol	3	0	0.6%	1.8%	0.8%	0.4%	0.4%	1.2%	0.4%	1.2%	0.2%	0.2%	0.4%	1.1%	2.7%	1846
Ohiol	3	1	0.7%	1.1%	1.2%	0.4%	0.7%	0.5%	0.9%	1.1%	0.8%	0.7%	0.6%	0.8%	1.0%	1846
Ohiol	4	0	93.0%	94.2%	97.2%	98.4%	98.4%	98.0%	98.5%	97.4%	98.2%	98.3%	98.3%	98.0%	94.9%	1846

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
TX	0	0	1.5%	9.1%	3.7%	6.0%	5.2%	1.4%	0.2%	4.2%	7.8%	11.1%	6.1%	1.7%	9.4%	4953
TX	0	1	0.7%	3.0%	1.4%	0.1%	0.1%	0.3%	.	1.3%	.	0.0%	0.1%	0.5%	1.6%	4953
TX	0	2	0.3%	0.6%	0.4%	.	0.0%	0.1%	.	0.2%	.	.	.	0.1%	0.4%	4953
TX	0	3	0.1%	0.1%	0.0%	.	.	0.0%	0.0%	0.1%	.	0.0%	.	.	0.0%	4953
TX	0	4	0.0%	.	0.0%	0.0%	0.0%	0.0%	0.0%	.	0.0%	0.0%	0.0%	.	.	4953
TX	1	0	6.6%	4.3%	1.3%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%	.	0.1%	0.2%	0.1%	4953
TX	1	1	1.9%	1.7%	0.5%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	.	.	0.1%	0.1%	4953
TX	1	2	0.3%	0.5%	0.3%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	4953
TX	1	3	0.1%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	4953
TX	2	0	6.1%	2.2%	1.2%	0.1%	0.1%	0.6%	0.2%	0.8%	0.1%	0.1%	0.1%	0.4%	0.5%	4953
TX	2	1	1.3%	1.7%	1.2%	0.4%	0.4%	0.6%	0.4%	0.6%	0.3%	0.3%	0.4%	0.8%	0.5%	4953
TX	2	2	0.6%	0.6%	0.6%	0.7%	0.5%	0.8%	0.8%	0.6%	0.7%	0.8%	0.8%	0.6%	0.8%	4953
TX	3	0	5.0%	8.1%	7.9%	2.8%	2.7%	13.3%	4.3%	5.5%	2.3%	2.5%	2.9%	5.7%	7.7%	4953
TX	3	1	5.2%	5.3%	6.7%	7.0%	6.5%	5.0%	7.9%	7.2%	6.3%	6.0%	6.4%	7.3%	5.2%	4953
TX	4	0	70.4%	62.7%	74.6%	82.7%	84.3%	77.5%	85.9%	78.8%	82.3%	78.8%	82.9%	82.4%	73.3%	4953