Table 1. Average time cost (second) for each instruction. All experiments are conducted with I-FSJ jailbreak. The test samples are mixed with 520 normal samples and 520 jailbreak samples.

Method	LLaMA2-7B		Self Defense	TIM		Л
1,1011104	Vanilla	w/ Our Detector	Total	Training	Total	Training/Total
Time	7.18	7.21 (+0.3%)	36.13	0.67	5.49	12.2%

Table 2. Experimental Results under GCG jailbreak attacks.

	ASR	ODR
LLaMA2-7B	21.5	0.2
+TIM	7.7 (-13.8%)	2.7 (+2.5%)

Table 3. The ASR (%) evaluated by LLM of MM-SafetyBench with LLaVA-v1.6-Vicuna-7B. We adopt LLaMA3-8B-Instruct as the evaluator. The results of TIM are reported as ASR / ASR-50.

Method	Vanilla	Adashield	VLGuard	TIM
ASR	36.3	2.4	86.1	0.2/0.0

Table 4. Results with LLaVA-v1.6-Vicuna-13B.

	MM-SafetyBench		Figstep	
	ASR	ODR	ASR	ODR
Vanilla TIM	100.0 4.8/0.0	0.4 0.4	100 1.8/0.0	0.0 0.4

Table 5. The transferability results. We first adopt TIM on the source jailbreak attack. Then, we freeze the fine-tuned model and evaluate it on the target attack. We report the ASR while adopting the LLaVA-v1.6-Vicuna-7B as the backbone.

Figstep MM-SafetyBench	$MM\text{-}SafetyBench \longrightarrow Figstep$
84.3 (-15.5)	0.0 (-100.0)

Table 6. The validation accuracy of the held-out samples from detector training.

Model	LLaVA-v1.6-Vicuna-7B	LLaVA-v1.6-Mistral-7B	LLaVA-v1.6-Vicuna-13B	LLaMA2-7B
Accuracy	100.0	100.0	99.6	99.9

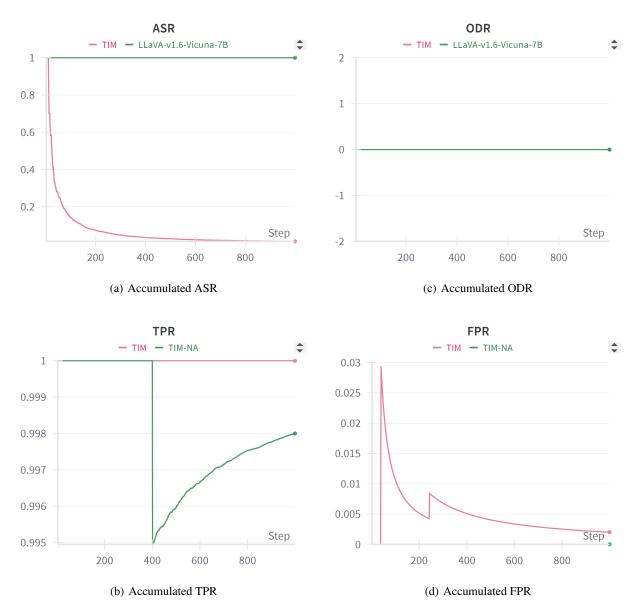


Figure 1. Changes in metrics during the test process against Figstep.

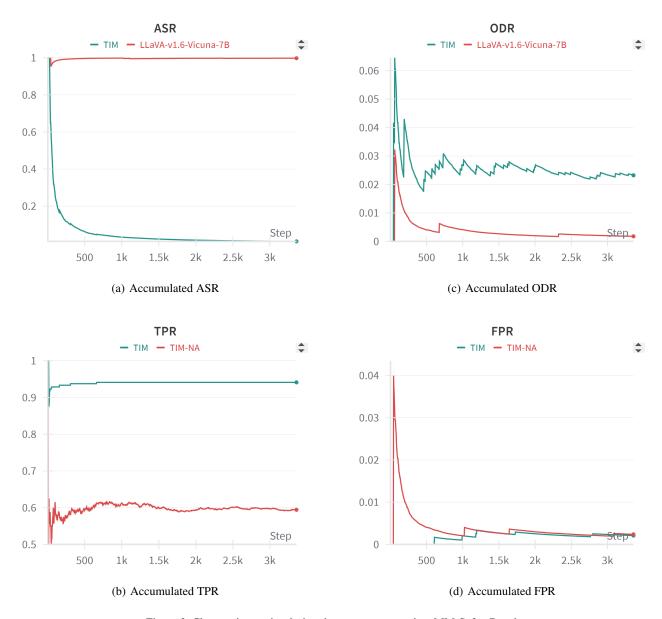


Figure 2. Changes in metrics during the test process against MM-SafetyBench.