







- Visual ambiguities and disparities
- Off-line learning scalability (minimising user feedback clicks)



M:
$$\mathbf{x}^p \to \mathbf{x}^g \in \mathbb{R}^d$$

$$T = \sum_{t=1}^{T_s} M_{\pi_t}(\mathbf{x}^p) \qquad T_s = \frac{2}{3}T_s$$

- The subscript $\pi = \{\pi_1, \dots, \pi_{T_s}\}$ is a randomly sampled index.

This process can be repeated to generate more synthesised probe instances if desired.

[1] B. Prosser, et al, "Person re-identification by support vector ranking", BMVC, 2010 [2] W. Zheng, et al, "Re-identification by relative distance comparison", TPAMI, 2012. [3] A. Globerson, et al, "Metric learning by collapsing classers", NIPS, 2005.

VIPeR								
		multi-shots				one-shot		
	R3	0	R1	R2	R3	0	R1	R2
3	47.56	9.43	30.41	44.21	50.13	29.60	67.60	73.20
5	71.08	14.87	58.48	67.85	71.58	29.80	73.40	77.20
3	72.03	16.01	59.49	68.35	72.22	31.40	70.20	75.60
3	66.87	17.85	60.06	63.64	66.20	30.00	69.80	73.60

Project page: http://personal.ie.cuhk.edu.hk/~ccloy/project_po