





Introduction

Papers	Single-pass	Non-iid	No task labels
VASE [2], CURL [61], L-VAEGAN [77]	×	\checkmark	\checkmark
He et al. [31], CCSL [46], CaSSLe [24], LUMP [49]	\checkmark	\checkmark	×
Tiezzi et al. [70], KIERA [57]	\checkmark	\checkmark	\checkmark
STAM [68], SCALE (this paper)	\checkmark	\checkmark	\checkmark

- inspired from real-world applications



SCALE: Online Self-supervised Lifelong Learning without Prior Knowledge Xiaofan Yu¹, Yunhui Guo², Sicun Gao¹, Tajana Rosing¹ ¹ University of California San Diego² University of Texas at Dallas

Method

Experiments



nline	Memory update	CIFAR-10	CIFAR-100	TinyImageNet
	w/ label	32.41	21.21	27.73
tive- ods	random	29.80	20.10	23.67
	KMeans	31.59	22.15	29.07
	MinRed [58]	23.66	19.75	25.13
	PSA (this paper)	32.21	23.16	31.33