

OntoAug: Rethinking Generative Data Augmentation via Ontology Guidance

Supplementary Material

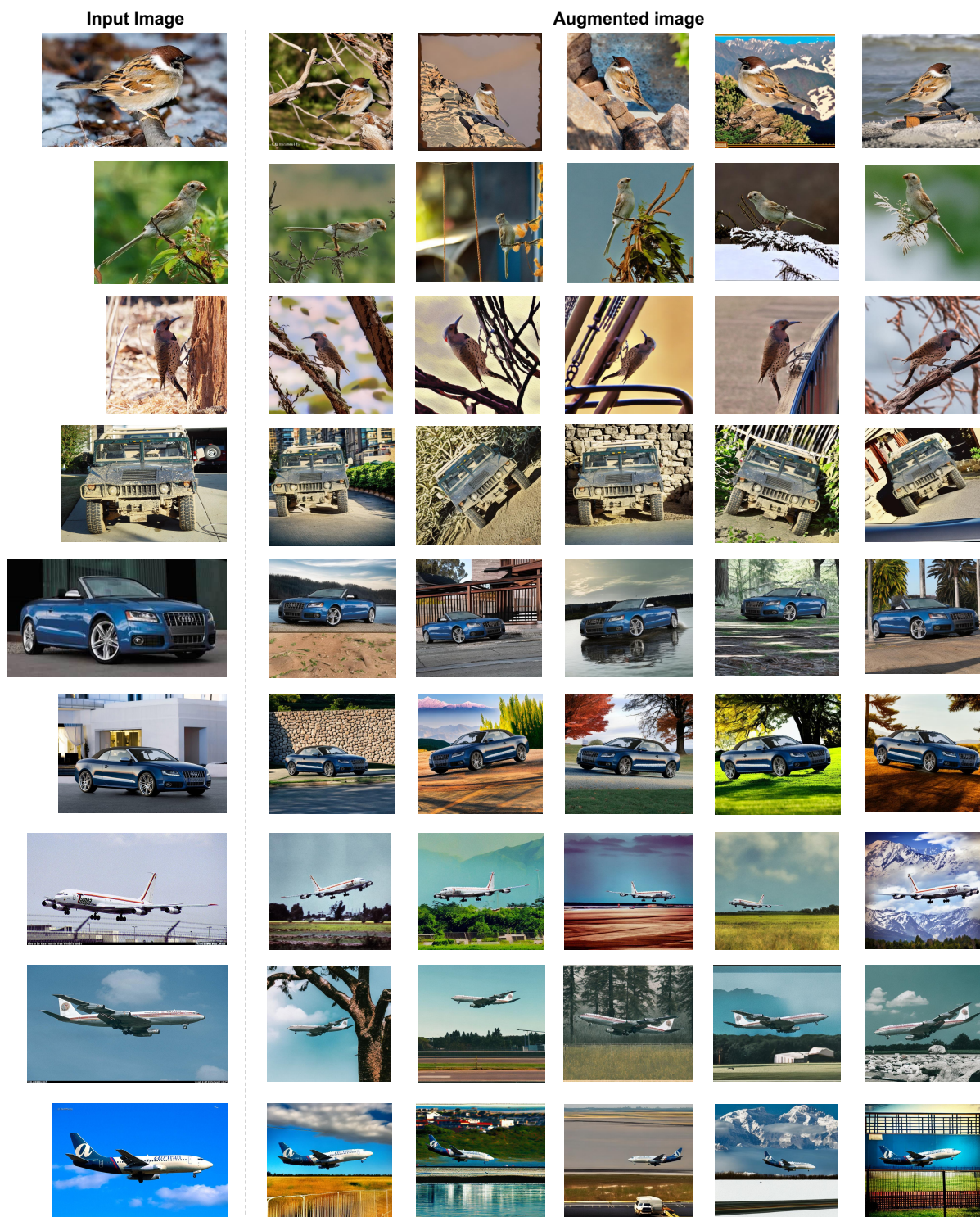


Figure 1. Examples generated by OntoAug.

grassland	blue sky	tree	water	rock
green plants	leaf	sky	trunk	ripple
vegetation	green leaf	clear sky	tree trunk	water surface
plants	green leaves	sunny sky	pine tree	ocean
green vegetation	coastal waves	white clouds	bark	waterside
bushes	woodland	clouds	loose soil	lake
thickets	serene waters	cloud formations	distant horizon	seawater
moss	jungle	till lake	loess ground	coast
thicket	rainforest	crystal-clear water	grassland soil	coastline
field	taiga	twilight sky	hillside soil	waves
wetland	flowing river	red soil surface	golden sand	dock
green lawn	calm sea	dry soil	beach sunrise	river
grass	bright sky	plowed field	beach sunset	seaweed
green grassland	desert soil	cracked earth	wet sand	plankton
weeds	sunlit sky	barren land soil	graffiti	body of water
dry grass	stone bricks	red bricks	forest floor soil	swamp
hay	cloudy sky	concrete	white wall	coastal area
meadow	background wall	blue background	muddy path	droplet
prairie	snowy night	brick wall	glass curtain wall	moist soil
savanna	flatland	calm ocean	rocky coast	aquatic area
steppe	tall grass	tiles	tide pools	avenue
pasture	gray background	valley	autumn forest	sleet
plains	mountain lake	metal wall	black humus soil	snowcap
branch	concrete wall	snowfall	tundra	lane
rolling hills	cascading waterfall	cozy	white sand	pavement
sunny field	landscape	waterfall	white background	concrete floor
golden horizon	black background	snowy sunrise	azure sea	avenue
mountain chain	mountain road	highland	mountainside	hillside
forest	road	beach	soil ground	snowman
woodland	stone	ground	shore	soil
grove	pebble	rocky ground	sandy ground	ground
temperate forest	falls	billboard	weathered wall	frozen lake
tropical forest	concrete ground	desert	plastic panel	blossom
dense woods	small stone	gravel ground	sand	wooden door
mountainous woods	wall	muddy ground	display board	farmland soil
autumn	wire	snowfield	wooden stake	wire mesh
mountain range	blue sea	winter	wood	city
fall	glass	snow	tree stump	window
lakeshore	bricks	snowscape	pillar	village
rippling water	still lake	overcast sky	utility pole	stone wall

Table 1. The complete list of background words.

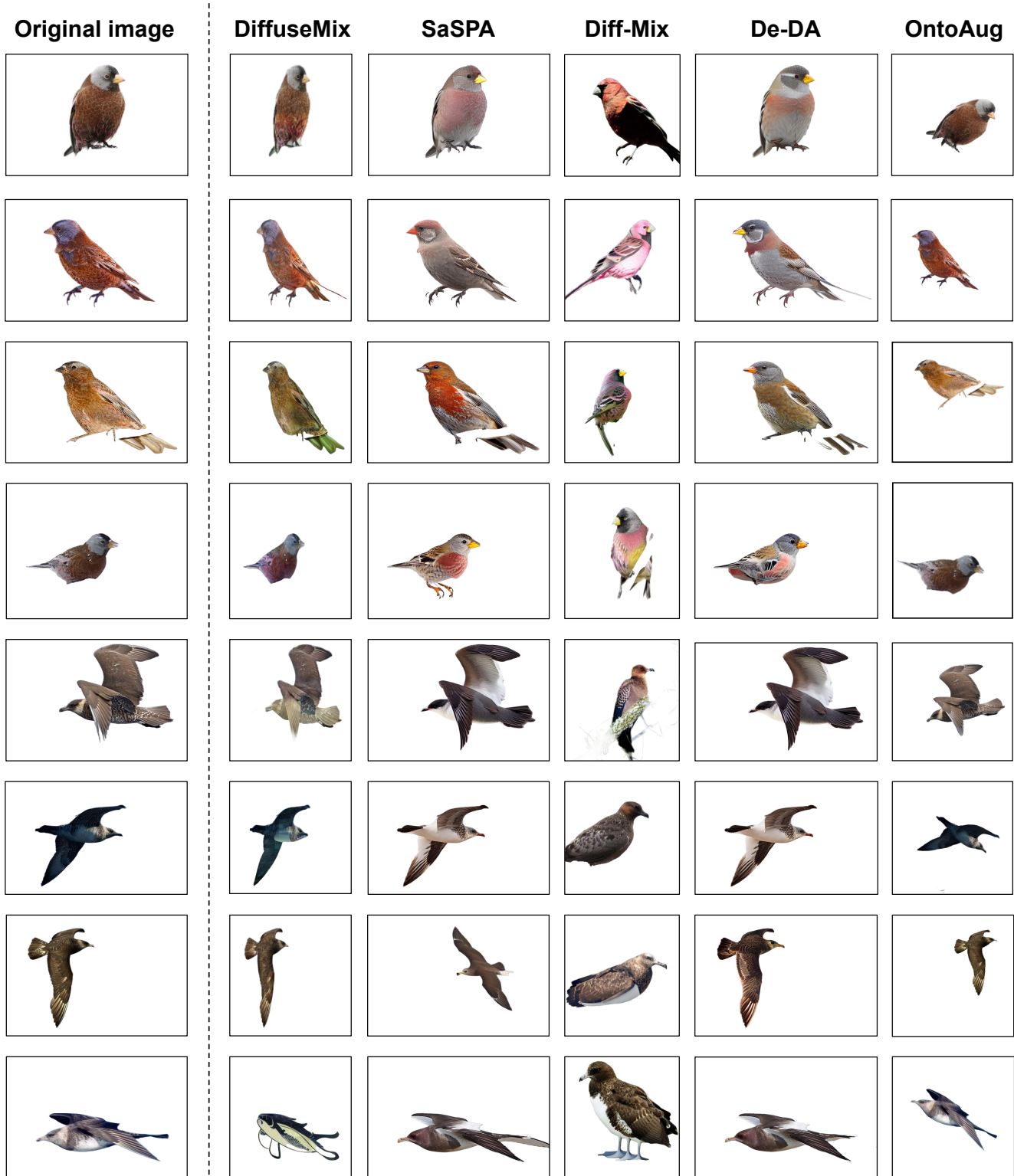


Figure 2. The comparison of various generative methods in terms of the details of the ontological part reveals that other methods generally lead to significant changes in core visual features such as texture and color of the ontology. In contrast, our proposed method achieves diversification of the ontological part's layout while strictly preserving its essential characteristics.