Bi-PointFlowNet

10차 보고

Experiment – Inference Time 측정

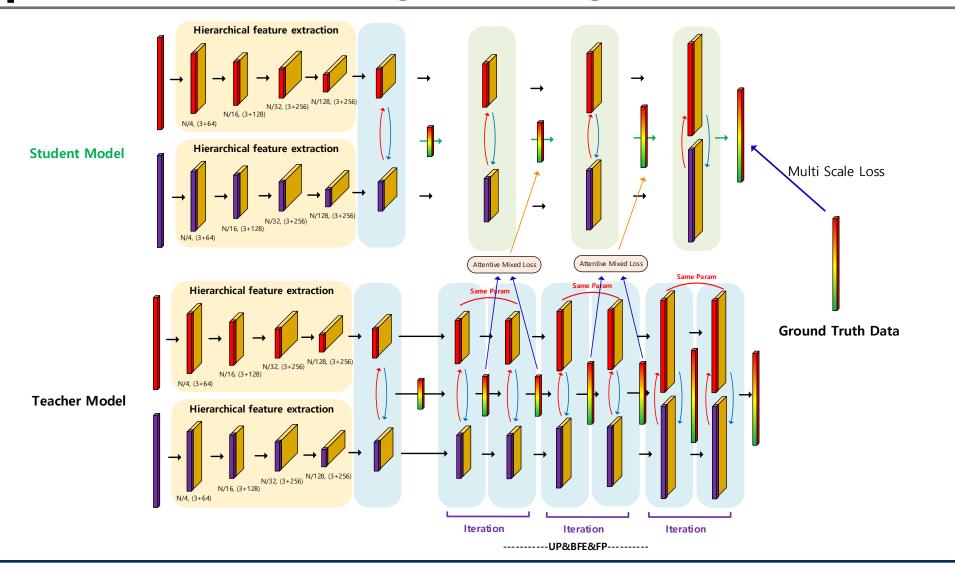
RTX 2070 Max-Q

Architecture	Points	FLOPs	Params	Inference Time	
Baseline	8192	13.360G	7.957M	0.221s (8.3FPS)	
	4096	10.459G	7.937101	0.109s	
$C_{mid} = 4$, K=16	8192	7.368G		0.213s	
	4096	6.124G	2.732M	0.107s	
	2048	5.501G		0.070s	
$C_{mid} = 8$, K=16	8192	9.365G	4.474M	0.213s	
Iterative $C_{mid} = 8$, feat	8192	13.070G	4.22014	0.518s	
	4096	10.917G	4.339M	0.223s	
Non-Iterative C_{mid} = 8, feat	8192	8.165G	4.339M	0.302s	





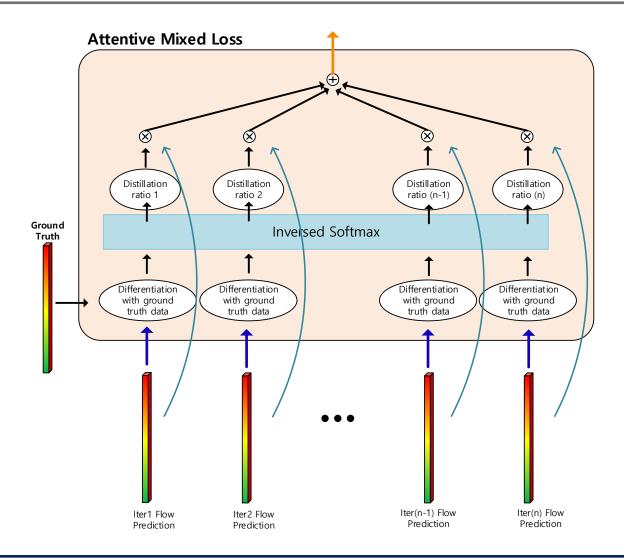
Experiment – Blending Knowledge Distillation







Experiment – Blending Knowledge Distillation







Experiment – WeightNet8_FG

	Baseline	WeightNet8_FG		
FLOPs	13.1G	8.16G		
Param	4.34M	4.34M		

Teacher: c_mid=8, feat, I=2

Epoch 245

WeightNet8_FG(C_{mid} =8, feat, I=1)

Loss Function	Dataset	EPE3D(↓)	ACC3DS(†)	ACC3DR(↑)	Outliers3D(↓)	EPE2D(↓)	ACC2D(↑)
Scratch	FlyingThings	0.0280(현재: 0.0252)	0.921	0.981	0.157	1.497	0.932
	KITTI	0.0319	0.912	0.960	0.146	1.143	0.949
Blendeing KD	FlyingThings	0.0298	0.910	0.979	0.165	1.608	0.923
	KITTI	0.0368	0.895	0.948	0.157	1.292	0.927
Blending KD + Hint	FlyingThings						
	KITTI						
Bi-Directional Hint Training Loss + Scratch	FlyingThings						
	KITTI						



