The KITTI Vision Benchmark Suite

A project of Karlsruhe Institute of Technology and Toyota Technological Institute at Chicago







home setup



flow sceneflow depth odometry object tracking road semantics raw data submit results

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Method

Unambiguous Pyramid Cost Volumes Fusion for Stereo Matching [UPFNet]

[Anonymous Submission]

Submitted on 23 Oct. 2021 06:03 by [Anonymous Submission]

Running time: 0.25 s

Environment: 1 core @ 2.5 Ghz (Python)

Method Description:

900epoch

Parameters:

0.9

Latex Bibtex:

Detailed Results

This page provides detailed results for the method(s) selected. For the first 20 test images, the percentage of erroneous pixels is depicted in the table. We use the error metric described in Object Scene Flow for Autonomous Vehicles (CVPR 2015), which considers a pixel to be correctly estimated if the disparity or flow end-point error is <3px or <5% (for scene flow this criterion needs to be fulfilled for both disparity maps and the flow map). Underneath, the left input image, the estimated results and the error maps are shown (for disp_0/disp_1/flow/scene_flow, respectively). The error map uses the log-color scale described in Object Scene Flow for Autonomous Vehicles (CYPR 2015), depicting correct estimates (<3px or <5% error) in blue and wrong estimates in red color tones. Dark regions in the error images denote the occluded pixels which fall outside the image boundaries. The false color maps of the results are scaled to the largest ground truth disparity values / flow magnitudes.

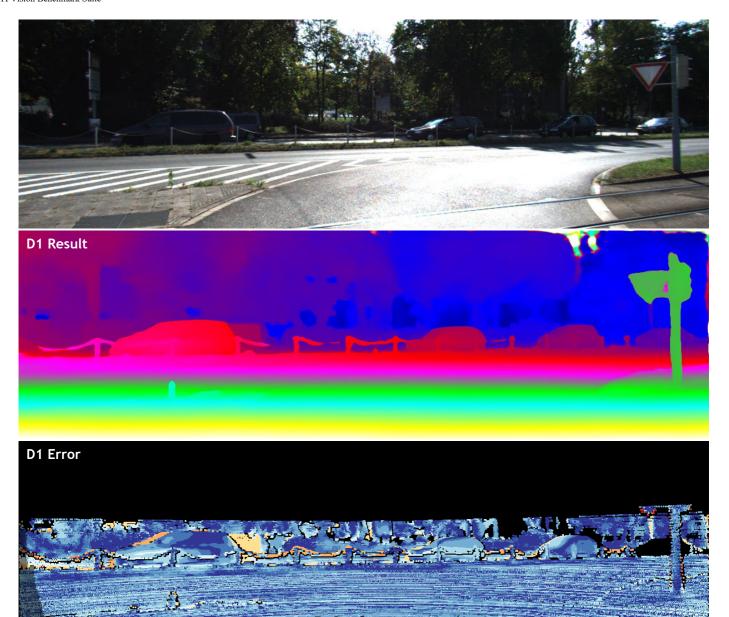
Test Set Average

Error	D1-bg	D1-fg	D1-all	
All / All	1.38	2.85	1.62	
All / Est	1.38	2.85	1.62	
Noc / All	1.26	2.70	1.50	
Noc / Est	1.26	2.70	1.50	
This t	This table as LaTeX			

Test Image 0

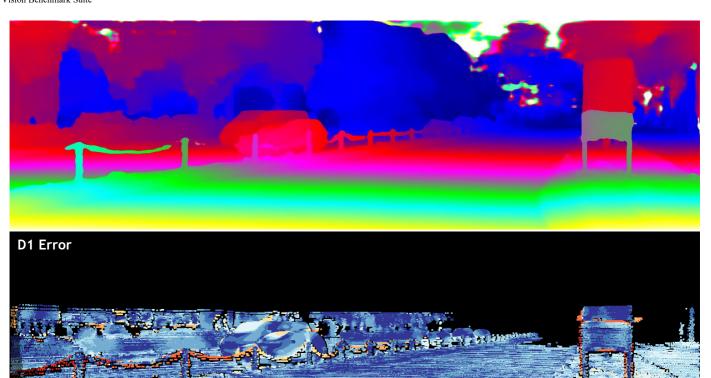
D1-bg	D1-fg	D1-all
1.47	1.17	1.43
1.47	1.17	1.43
1.44	1.17	1.40
1.44	1.17	1.40
	1.47 1.47 1.44	D1-bg D1-fg 1.47 1.17 1.47 1.17 1.44 1.17 1.44 1.17

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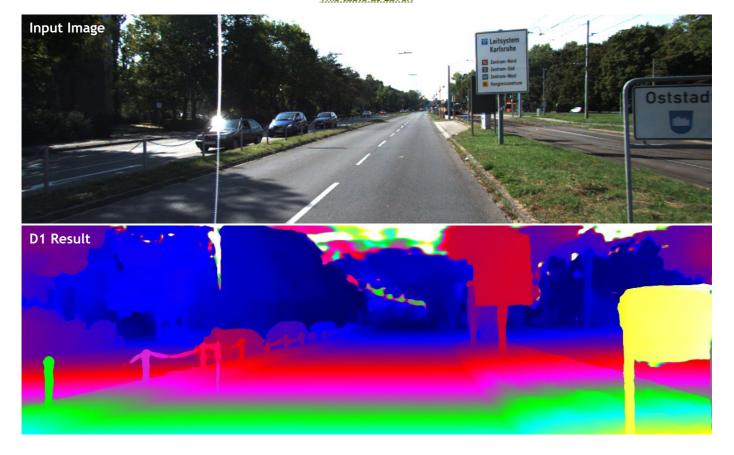


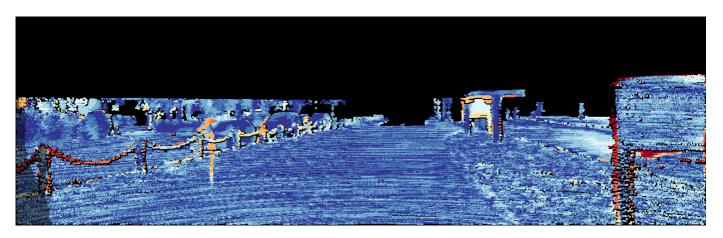
Error	D1-bg	D1-fg	D1-all
All / All	1.47	1.93	1.52
All / Est	1.47	1.93	1.52
Noc / All	1.40	1.93	1.46
Noc / Est	1.40	1.93	1.46
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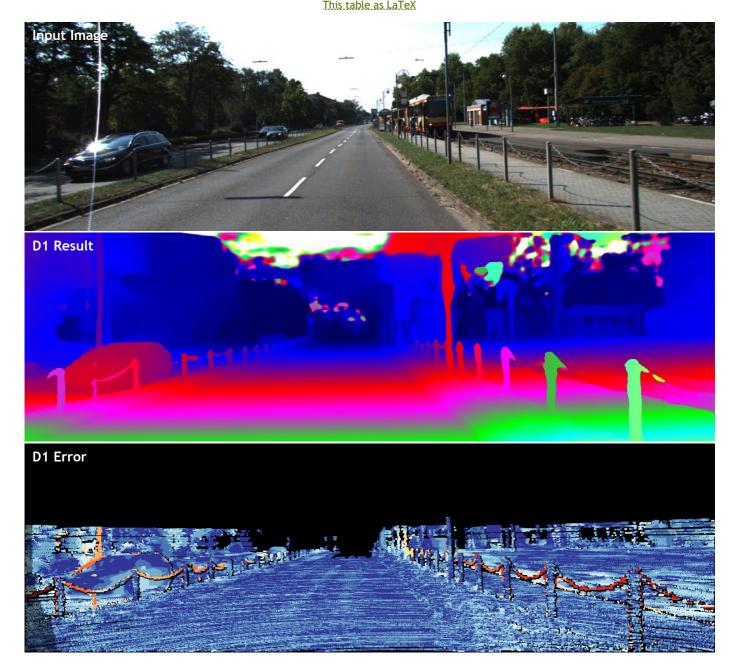


Error	D1-bg	D1-fg	D1-all
All / All	1.87	5.24	2.03
All / Est	1.87	5.24	2.03
Noc / All	1.81	5.24	1.98
Noc / Est	1.81	5.24	1.98
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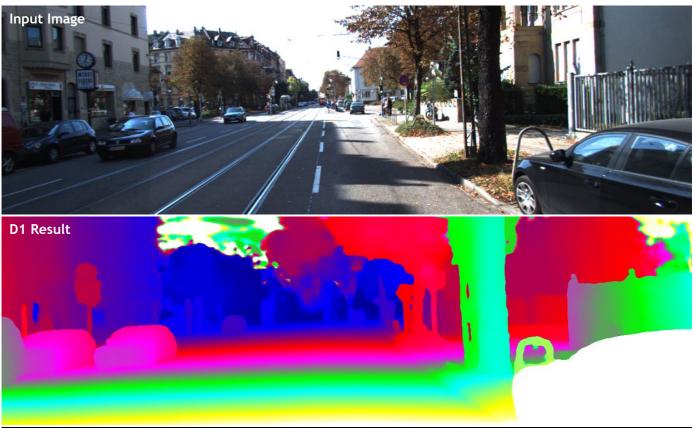


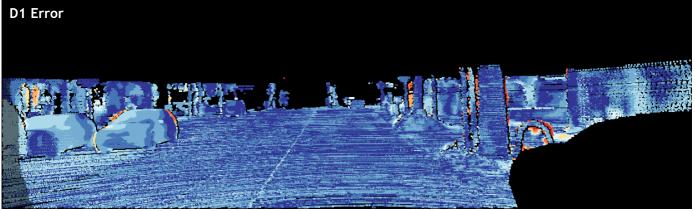


Error	D1-bg	D1-fg	D1-all
All / All	1.59	1.12	1.54
All / Est	1.59	1.12	1.54
Noc / All	1.56	1.12	1.52
Noc / Est	1.56	1.12	1.52
Thic t	ahla s	T _c I ₂ T	ΔY

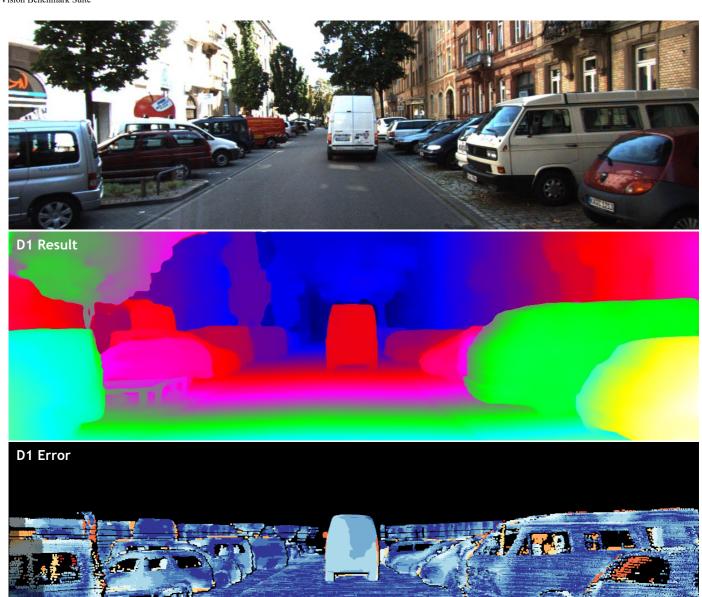


Error	D1-bg	D1-fg	D1-all
All / All	0.77	0.72	0.76
All / Est	0.77	0.72	0.76
Noc / All	0.78	0.72	0.77
Noc / Est	0.78	0.72	0.77
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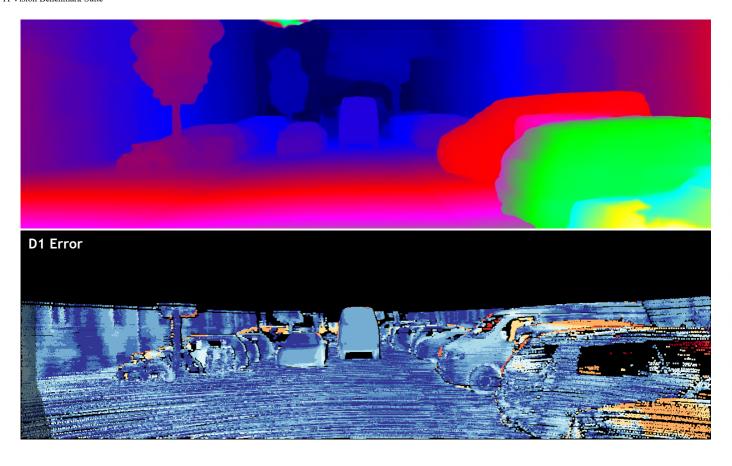


Error	D1-bg	D1-fg	D1-all		
All / All	1.99	2.10	2.00		
All / Est	1.99	2.10	2.00		
Noc / All	1.81	2.10	1.84		
Noc / Est	1.81	2.10	1.84		
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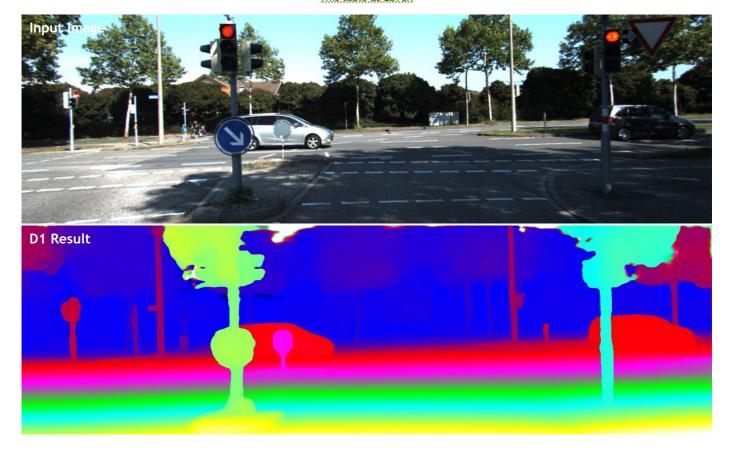


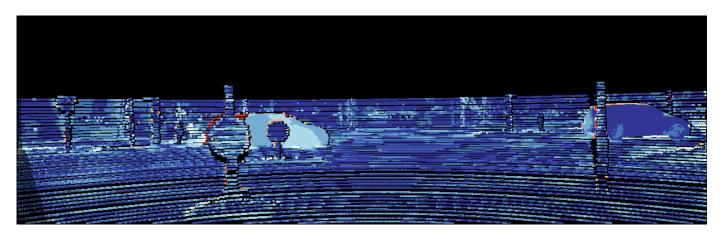
Error	D1-bg	D1-fg	D1-all
All / All	3.58	1.14	3.32
All / Est	3.58	1.14	3.32
Noc / All	3.66	1.14	3.39
Noc / Est	3.66	1.14	3.39
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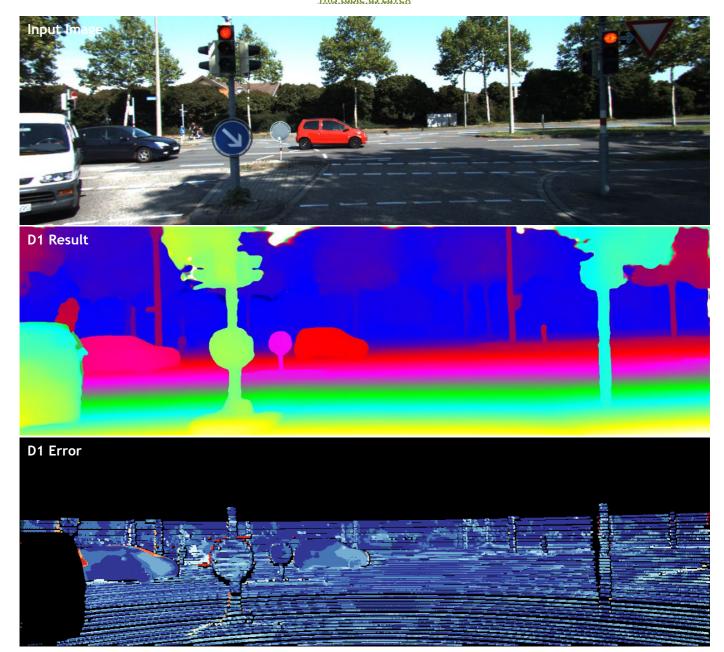


Err	or	D1-bg	D1-fg	D1-all
All /	' All	0.40	2.26	0.76
All /	Est	0.40	2.26	0.76
Noc	/ All	0.41	2.26	0.77
Noc	/ Est	0.41	2.26	0.77
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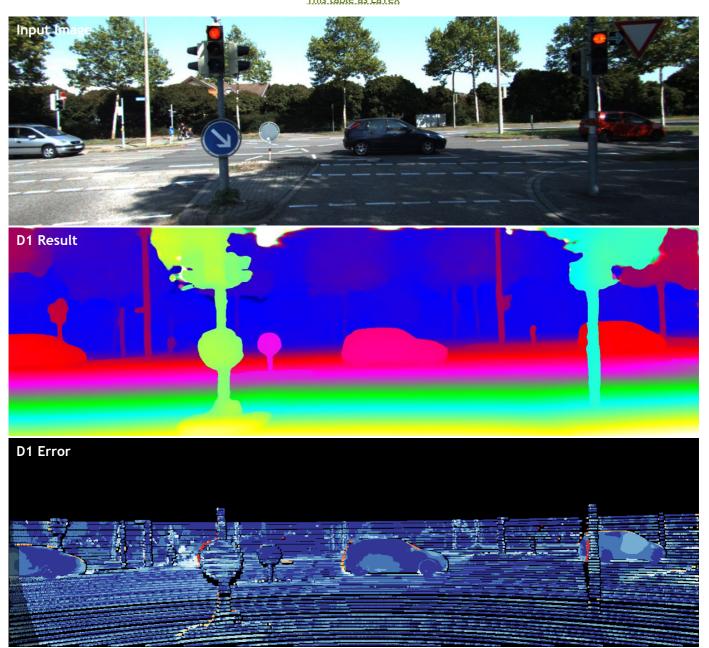




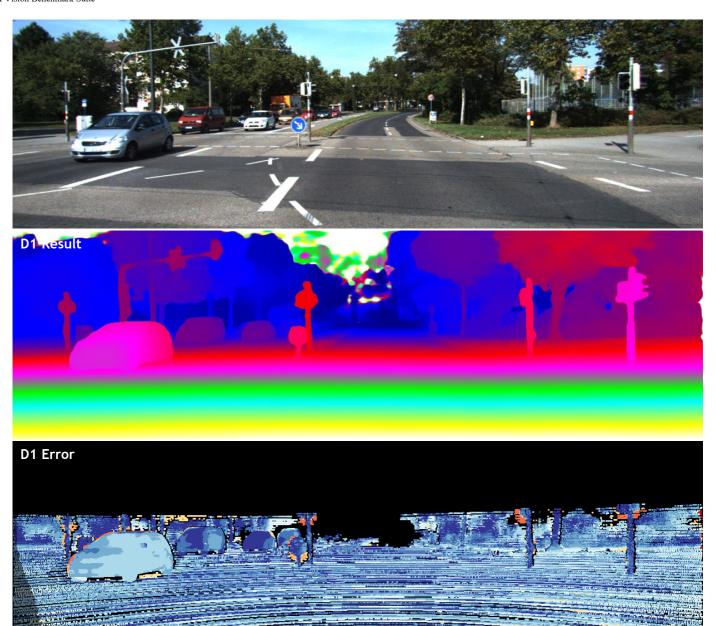
Error	D1-bg	D1-fg	D1-all
All / All	0.37	2.85	0.83
All / Est	0.37	2.85	0.83
Noc / All	0.37	2.85	0.83
Noc / Est	0.37	2.85	0.83
This t	able a	s LaT	eΧ



Error	D1-bg	D1-fg	D1-all
All / All	0.42	1.10	0.59
All / Est	0.42	1.10	0.59
Noc / All	0.42	1.16	0.61
Noc / Est	0.42	1.16	0.61
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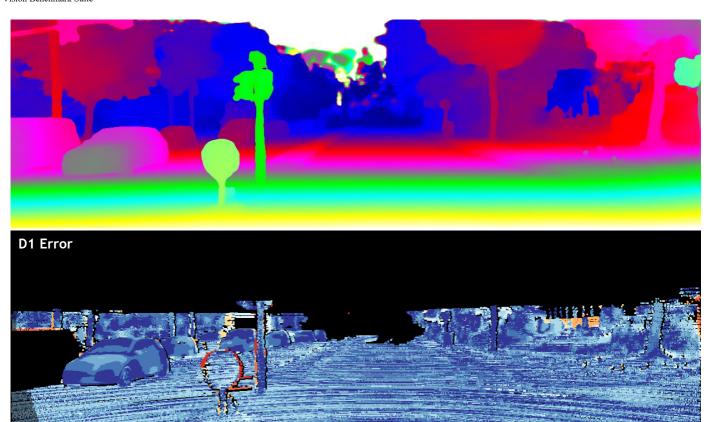


Error	D1-bg	D1-fg	D1-all
All / All	1.17	2.32	1.43
All / Est	1.17	2.32	1.43
Noc / All	1.17	2.32	1.44
Noc / Est	1.17	2.32	1.44
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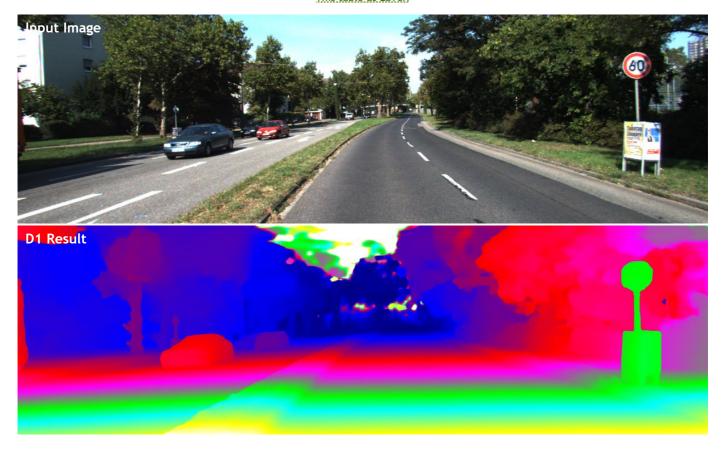


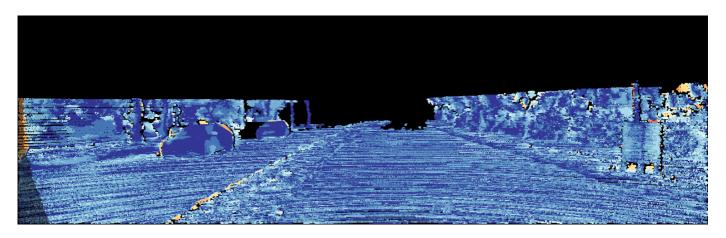
Error	D1-bg	D1-fg	D1-all
All / All	0.98	0.64	0.92
All / Est	0.98	0.64	0.92
Noc / All	0.98	0.64	0.92
Noc / Est	0.98	0.64	0.92
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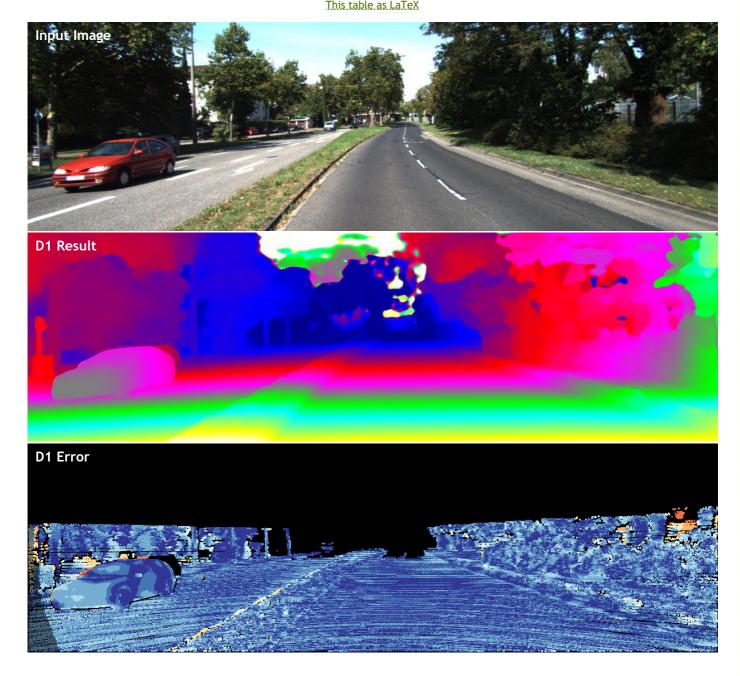


Error	D1-bg	D1-fg	D1-all
All / All	0.60	1.67	0.67
All / Est	0.60	1.67	0.67
Noc / All	0.45	1.67	0.54
Noc / Est	0.45	1.67	0.54
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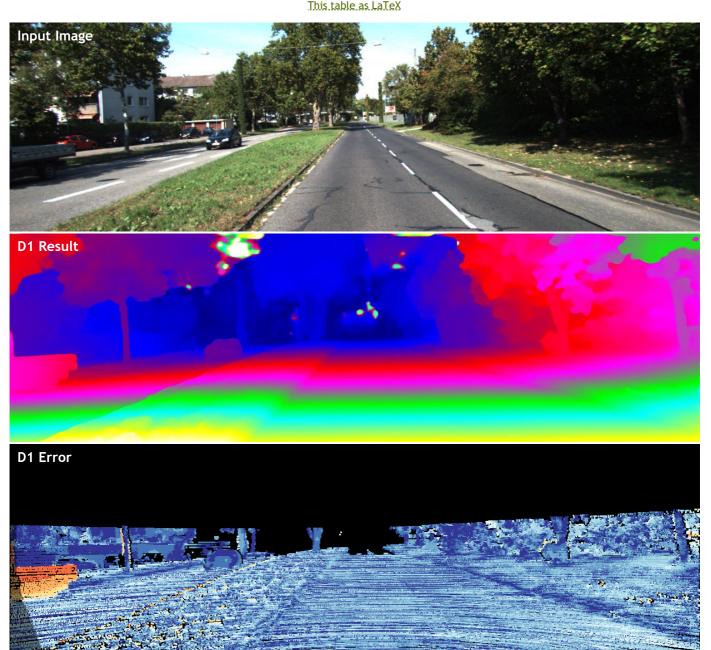




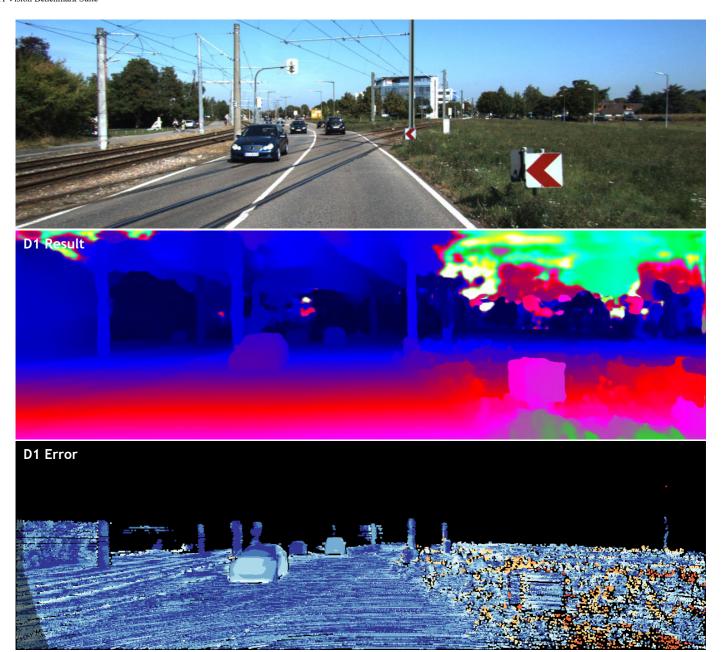
Error	D1-bg	D1-fg	D1-all
All / All	0.75	0.24	0.68
All / Est	0.75	0.24	0.68
Noc / All	0.67	0.24	0.61
Noc / Est	0.67	0.24	0.61
This t	ahle a	s I aT	ωX



Error	D1-bg	D1-fg	D1-all
All / All	1.36	0.00	1.33
All / Est	1.36	0.00	1.33
Noc / All	1.22	0.00	1.20
Noc / Est	1.22	0.00	1.20
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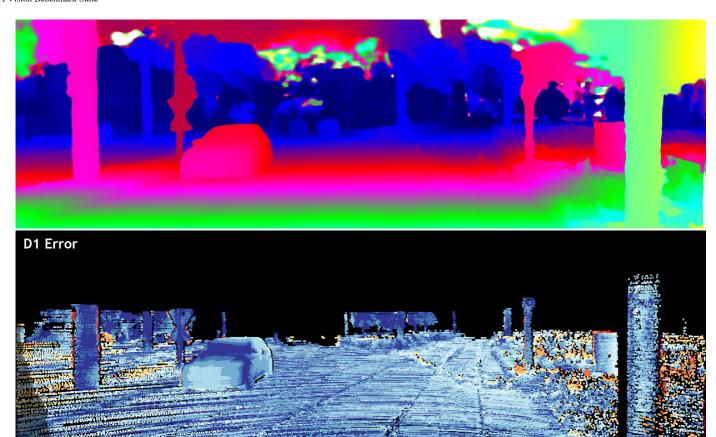


Error	D1-bg	D1-fg	D1-all	
All / All	2.45	0.07	2.24	
All / Est	2.45	0.07	2.24	
Noc / All	2.50	0.07	2.28	
Noc / Est	2.50	0.07	2.28	
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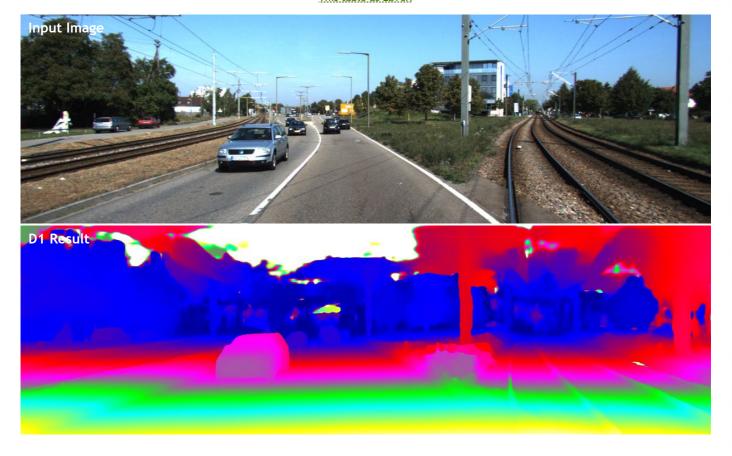


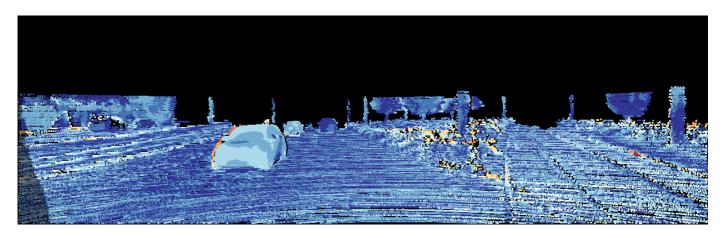
Error	D1-bg	D1-fg	D1-all
All / All	3.48	0.01	2.97
All / Est	3.48	0.01	2.97
Noc / All	3.29	0.01	2.80
Noc / Est	3.29	0.01	2.80
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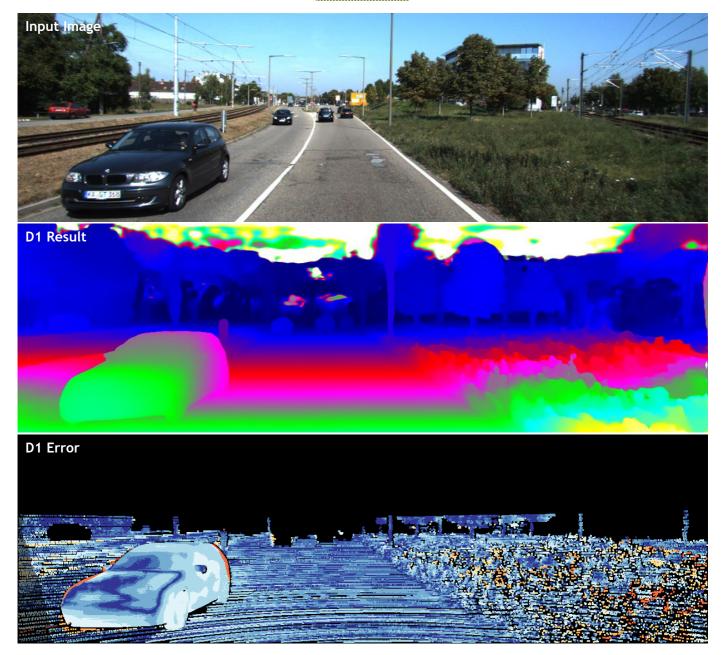


Error	D1-bg	D1-fg	D1-all
All / All	0.84	0.05	0.76
All / Est	0.84	0.05	0.76
Noc / All	0.83	0.05	0.75
Noc / Est	0.83	0.05	0.75
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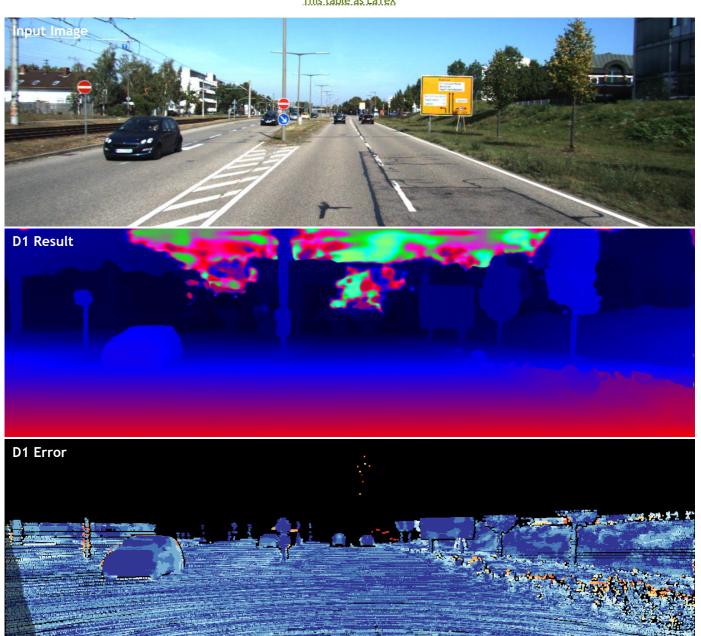




Error	D1-bg	D1-fg	D1-all
All / All	4.03	1.76	2.95
All / Est	4.03	1.76	2.95
Noc / All	3.97	1.76	2.91
Noc / Est	3.97	1.76	2.91
This t	able a	s LaT	еX



Error	D1-bg	D1-fg	D1-all	
All / All	0.81	0.59	0.78	
All / Est	0.81	0.59	0.78	
Noc / All	0.82	0.59	0.79	
Noc / Est	0.82	0.59	0.79	
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