

Discussion questions for 09/19

September 17, 2019

Paper: <http://vision.middlebury.edu/stereo/taxonomy-IJCV.pdf>

1. The Middlebury stereo benchmark (this paper) was one of the first ?benchmarks? in computer vision. How does this benchmark differ from other modern benchmarks?
2. One advantage of having a benchmark is easy apples-to-apples comparison. What do you see as a potential disadvantage?
3. Increasingly there are machine learning based approaches to stereo. Do you think machine learning is useful here? Why or why not?
4. A large class of stereo techniques use some sort of global energy function with smoothness terms. What other problems might this be useful in?
5. The smoothness term captures a “prior?” that the disparity should be smooth. What other priors might we be able to use?