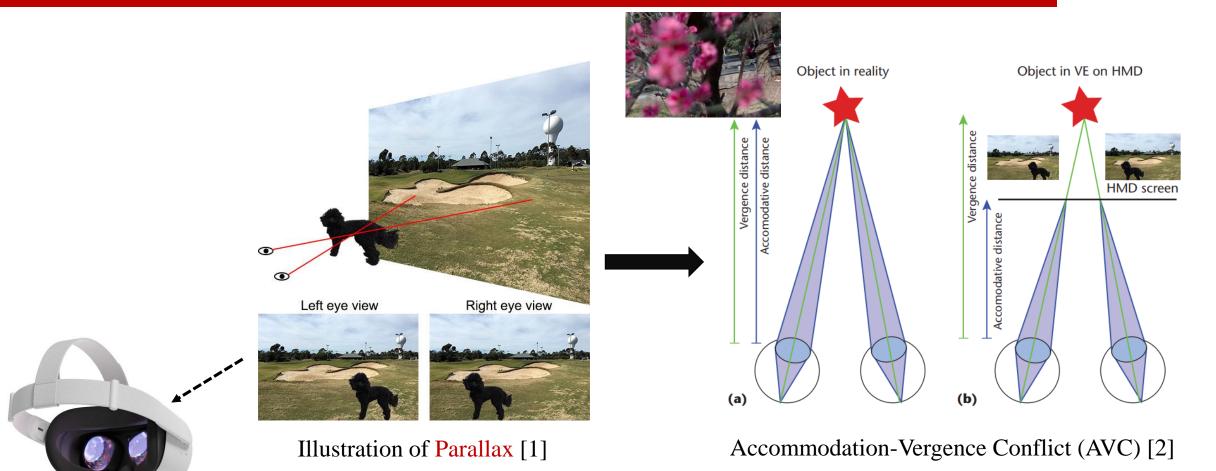


Visual Switching Technology Based on Viewpoint Tracking

Background

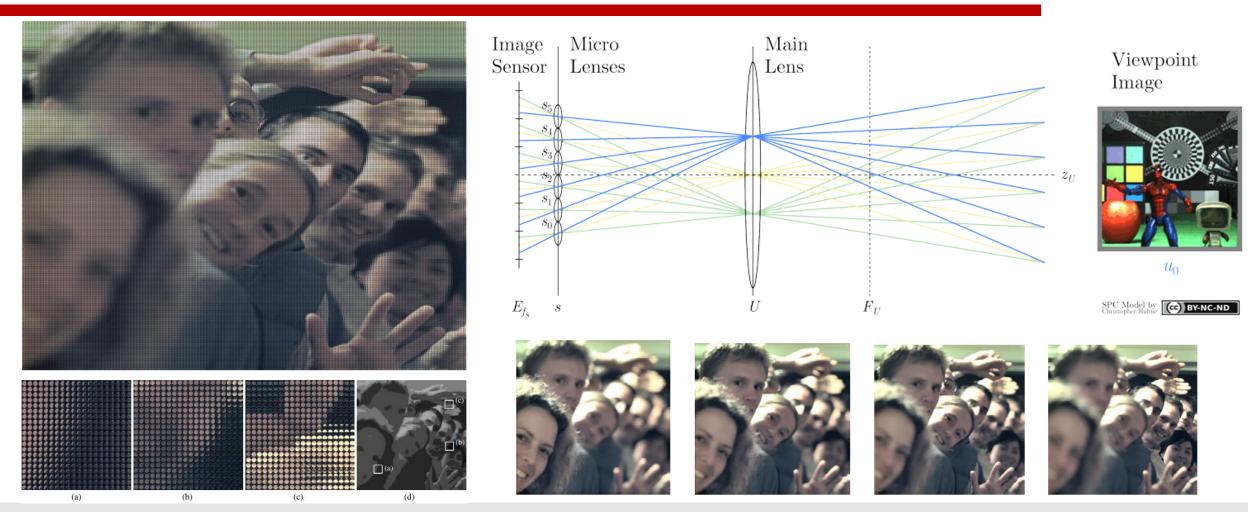


- [1] Source:https://www.mezzacotta.net/100proofs/archives/648
- [2] Carnegie K, Rhee T. Reducing Visual Discomfort with HMDs Using Dynamic Depth of Field. IEEE Comput Graph Appl. 2015 Sep-Oct;35(5):34-41.



Visual Switching Technology Based on Viewpoint Tracking

Method - Light Field Refocusing [1]



[1] Ng R, Levoy M, Brédif M, et al. Light field photography with a hand-held plenoptic camera[D]. Stanford University, 2005.

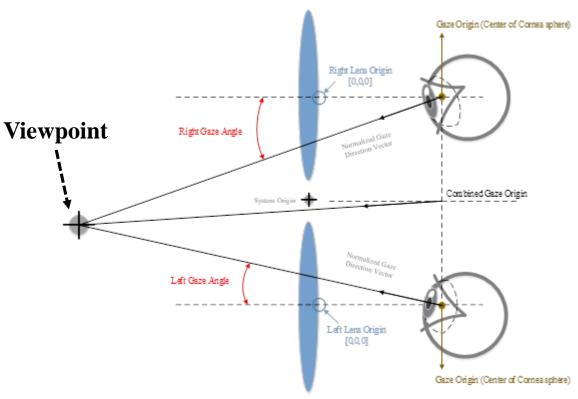
[2] The Standard Plenoptic Camera. Source:http://www.plenoptic.info/pages/sub-aperture.html



Visual Switching Technology Based on Viewpoint Tracking

Method - Viewpoint Tracking [1]

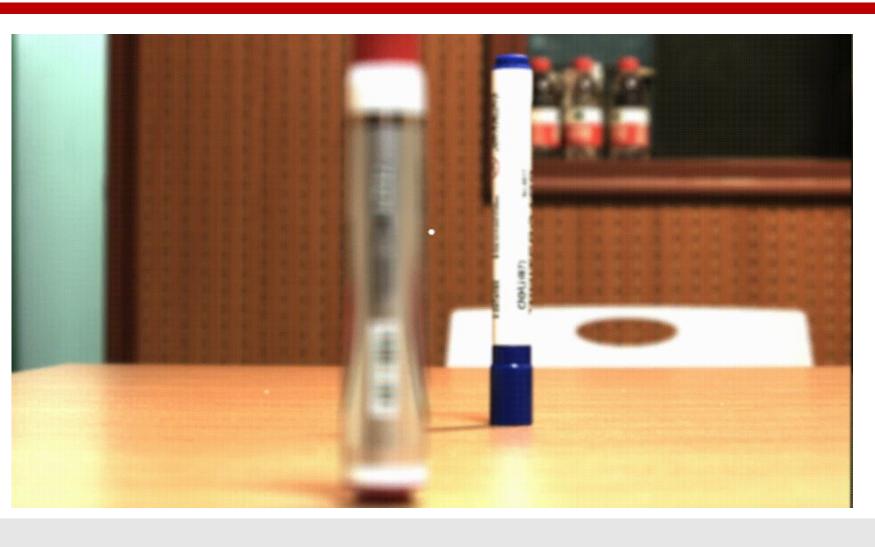




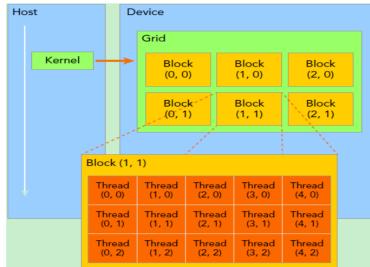


Visual Switching Technology Based on Viewpoint Tracking

Results



 Light Field Refocusing – CUDA Programming



- Viewpoint Tracking in VR HDMs
- The project was displayed at the 2020 Global Mobile Broadband Forum by Huawei.