Tracking People with Multiple Kinects

Chi-Jui Wu

Computer Science, University of St Andrews
United Kingdom
cjw21@st-andrews.ac.uk

ABSTRACT

Abstract.

Author Keywords

Tracking; Kinect; Calibration; HCI

ACM Classification Keywords

H.5.m. Information Interfaces and Presentation (e.g. HCI): Miscellaneous

INTRODUCTION

SECTION

Contributions

Previous Work

KINECT

SECTION

CURRENT APPROACH

SECTION

Multiple Kinects and Sockets

Serialization

Calibration

Tracking

TESTING

SECTION

Occlusion

EVALUATION

SECTION

Occlusion

ACKNOWLEDGMENTS

SECTION

HACK

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi posuere viverra justo, a congue neque consectetur ac. Nam quis fringilla urna. In non nulla varius, porta mauris vel, volutpat mauris. Vivamus porta est quam, a facilisis sapien varius in. In accumsan risus nec leo dictum dictum. Duis ullamcorper dictum velit, sit amet egestas elit consectetur ac. Nam non leo nec lectus iaculis ultricies.

Nam varius dictum dui, ut efficitur ante vehicula a. In hac habitasse platea dictumst. Vestibulum eu metus porttitor lorem vehicula lobortis convallis vel tellus. Aenean tempus iaculis purus. Nullam non nulla tristique ex bibendum eleifend pulvinar et dolor. Donec venenatis diam sem, non molestie dolor volutpat rutrum. Praesent fringilla aliquet quam eget consequat. Vivamus sit amet dolor ex. Quisque justo quam, commodo id diam sed, scelerisque elementum felis, Nulla facilisi.

In non dolor velit. Morbi nunc turpis, pharetra nec ipsum sed, venenatis dictum urna. Etiam sapien nisl, scelerisque sit amet dapibus vitae, venenatis vel arcu. Nam mi lorem, efficitur vitae nibh id, malesuada viverra libero. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam eu suscipit felis, sit amet cursus est. Mauris tempor interdum elementum. Cras non sagittis leo. Quisque mattis lorem justo, ac volutpat ipsum rhoncus ut. Aliquam erat volutpat. Maecenas sagittis turpis augue, id condimentum nisi euismod a. Nulla efficitur malesuada pellentesque.

Nullam tempor pulvinar augue non viverra. Mauris id varius leo, eu porta mauris. Praesent vitae justo vestibulum, hendrerit libero sed, lacinia dolor. Praesent commodo pellentesque faucibus. Nam laoreet felis fringilla nisi gravida, ac efficitur est bibendum. Aliquam nec lobortis nulla. Donec porta dignissim tortor, ut fringilla lectus sagittis eget. Cras eget hendrerit dui.

Nunc hendrerit ornare rhoncus. Donec at mauris risus. Donec feugiat, urna in eleifend lacinia, metus lectus scelerisque lectus, eu luctus elit ante vitae magna. Maecenas velit risus, euismod in varius a, tristique id leo. Aliquam pretium lobortis eros sed vulputate. Nullam in risus commodo, lobortis urna eget, elementum risus. Sed quis metus id nibh aliquam congue non sed odio. Maecenas sit amet egestas dui, ac elementum dui. Interdum et malesuada fames ac ante ipsum primis in faucibus. Phasellus vehicula commodo pretium. Nullam nunc elit, mollis sit amet cursus eu, scelerisque a nisl. Suspendisse est ligula, finibus quis quam sed, molestie volut-

pat leo. Morbi luctus ipsum vitae velit dapibus ultrices. Maecenas laoreet, lacus at accumsan sagittis, nisi ante consequat dolor, porta finibus orci risus porta leo.

[4] [3] [5] [1] [2]

REFERENCES

- 1. D.W. Eggert, A. Lorusso, and R.B. Fisher. 1997. Estimating 3-D rigid body transformations: a comparison of four major algorithms. *Machine Vision and Applications* 9, 5-6 (1997), 272–290. DOI: http://dx.doi.org/10.1007/s001380050048
- 2. B.K. Horn. 1987. Closed-form solution of absolute orientation using unit quaternions. *Journal of the Optical Society of America A* 5, 5 (1987), 629–642. http://dx.doi.org/10.1364/JOSAA.4.000629

- Microsoft. 2015a. Coordinate mapping. (2015). https://msdn.microsoft.com/en-us/library/dn785530.aspx.
- Microsoft. 2015b. WindowsPreview.Kinect Namespace. (2015). urlhttps://msdn.microsoft.com/enus/library/jj131033.aspx.
- 5. T. Wei, Y. Qiao, and B. Lee. 2014. Kinect Skeleton Coordinate Calibration for Remote Physical Training. In The Sixth International Conferences on Advances in Multimedia (MMEDIA '14). IARIA, 66–71.

http://www.thinkmind.org/index.php?view=article&articleid=mmedia_2014_4_20_50039