Bare Demo of IEEEtran.cls for Conferences

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Abstract—The abstract goes here.

I. INTRODUCTION

This demo file is intended to serve as a "starter file" for IEEE conference papers produced under LATEX using IEEE-tran.cls version 1.7 and later. I wish you the best of success.

mds

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II. RELATED WORK

Our work based on Luxapose[2] system. Luxapose is a system that aims to locate one's position by visible light. It exploits LED luminaries as the data transmitter, using high modulation frequency encoding flashing LEDs which cannot be distinguished by human eyes as the media. The camera takes pictures of these flashing LEDs with modified camera parameters, and the token picture then will be uploaded to a server with some analyse. The server decodes the location information of these transmitters using the rolling shutter effect, which shows at the token pictures as columns of stripes, and by a FFT the server can match the token pictures of its frequencies with the corresponding LED on the testing board. Once the pairing process finishes, the server exploits the angle of arrival(AoA) algorithm for precise positioning.

Angle-of-arrival positioning principle assumes that three or more beacons with known 3-D coordinates have been detected and located in an image captured by a smartphone. And these beacons should be visible and can be distinguished between each other.

III. SYSTEM DESIGN

IV. CONCLUSION

The conclusion goes here.

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REFERENCES

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- [2] Kuo, Ye-Sheng, et al. "Luxapose: Indoor positioning with mobile phones and visible light." Proceedings of the 20th annual international conference on Mobile computing and networking. ACM, 2014.