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Data-Driven Symbol Definition for Color Shift Keying in Screen Camera Communications Publisher: IEEE PDF Cite This Alex Cartagena Gordillo All Authors **©** Abstract: Abstract Aiming to increase the data rate in screen camera communications, we intend to define symbols to be used in an M-ary color shift keying modulation Document Sections scheme. With regard to the R, G, B format of a JPEG image, we generate arrays of colors and acquire their image with the back camera of an smartphone. Then, we select those colors with the minimum error distance and elect the desire set of colors from their constellation space. Given the I. Introduction grouping pattern of the processed data, we believe it is a valid method for defining symbols in CSK modulation, although it needs to be validated for higher order modulation schemes. II. Theoretical definitions III. Experimental Results and Published in: 2021 30th Wireless and Optical Communications Conference (WOCC) IV Conclusions Date of Conference: 7-8 Oct. 2021 DOI: 10.1109/WOCC53213.2021.9602866 Date Added to IEEE Xplore: 15 November 2021 Publisher: IEEE Authors Conference Location: Taipei, Taiwan ▶ ISBN Information: Figures ▶ ISSN Information: References

## I. Introduction

Screen camera communications emerges as the pext promising technology in the field of optical communications. It still needs to face slow refresh rates from screens and slow ima.

Sign in to Continue Reading s, but history demonstrates us that many impossible technologies in the past are realities at the pext promising technologies.

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Keywords

Metrics

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