

Systems, Methods, And Media For Encoding Structured Light Imaging Patterns And Estimating Depths In A Scene

View U.S. Patent No. 10,818,023 in PDF format.

WARF: P180298US01

Inventors: Mohit Gupta

The Invention

In accordance with some embodiments, systems, methods and media for encoding structured light imaging patterns and estimating depths in a scene are provided. In some embodiments, a system for estimating depths in a scene is provided, the system comprising: a light source; an image sensor; a hardware processor programmed to: cause the light source to emit K light patterns toward the scene, each of the K light patterns is different and includes a trapezoid-shaped wave, and at least one of the K light patterns includes at least two trapezoid-shaped waves; cause the image sensor to generate an intensity value during emission of each of the K light patterns such that the pixel is associated with at least K intensity values; determine a depth estimate for a portion of the scene imaged by the pixel based on the K intensity values associated with the pixel.

Additional Information

For More Information About the Inventors

• Mohit Gupta

Tech Fields

- Information Technology : Computing methods, software & machine learning
- Information Technology : Image processing

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867

We use cookies on this site to enhance your experience and improve our marketing efforts. By continuing to browse without changing your browser settings to block or delete cookies, you agree to the storing of cookies and related technologies on your device. See our privacy policy

