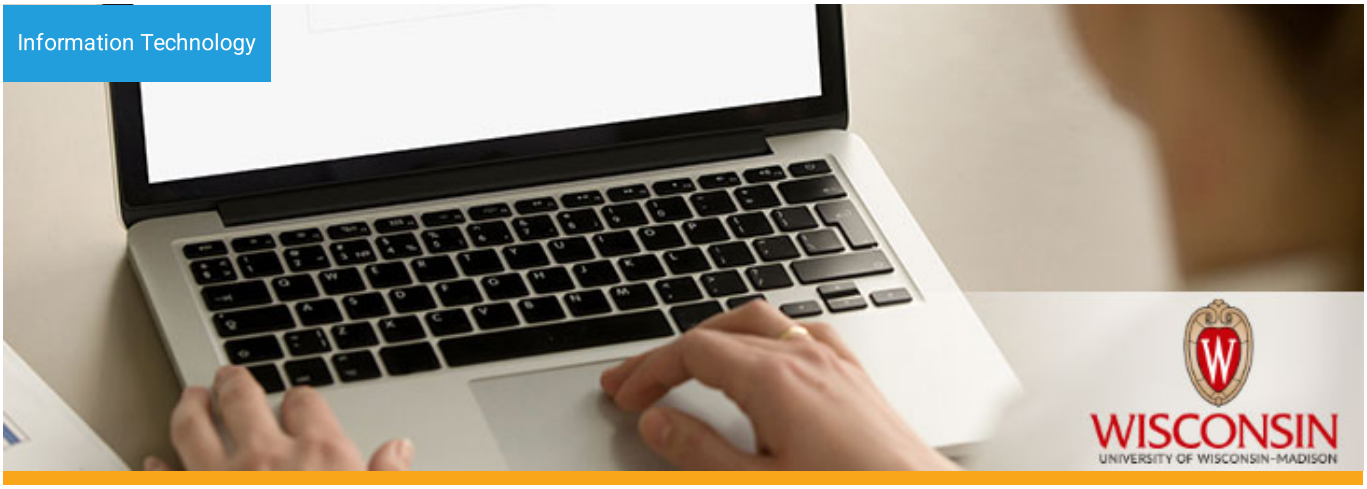
Information Technology



Systems, Methods, And Media For High Dynamic Range Imaging Using Dead-Time-Limited Single Photon Detectors

View U.S. Patent No. 10,616,512 in PDF format.

WARF: P180115US01

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The Invention

In accordance with some embodiments, systems, methods and media for high dynamic range imaging using dead-time-limited single photon detectors are provided. In some embodiments, a system for high dynamic range imaging is provided, comprising: an image sensor comprising: a pixels comprising: a single photon detector having dead time τd; and a counter coupled to an output of the single photon detector, wherein the counter is configured to increment in response to a signal indicative of detection of a photon output by the single photon detector; and a processor that is programmed to: read out a value stored by the counter after an exposure time has elapsed; and calculate an intensity for the pixel based on the value and the dead time τd.

Additional Information

For More Information About the Inventors

- Mohit Gupta
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Tech Fields

- Information Technology : Computing methods, software & machine learning

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