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High Dynamic Range Image Formation and Motion De-blurring in CMOS Image Sensor

Applications

- Imaging
- Digital cameras

Advantages

- New image processing techniques used to identify blur and restore the image.
- Can simultaneously form a high dynamic range image and reduce or eliminate motion blur.
- Modest computational and storage requirements make it feasible to integrate all the processing and memory needed with the image sensor on the same CMOS chip

Publications

- X.Q. Liu and A. El Gamal, Simultaneous Image Formation and Motion Blur Restoration via Multiple Capture, ICASSP'2001 conference, Salt Lake City, Utah, May 2001.
- U.S. Patent Number [7,061,524](#) "Motion/Saturation Detection System and Method for Synthesizing High Dynamic Range Motion Blur Free Images from Multiple Captures"

Patents

- Published Application: [20030095189](#)

Innovators

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