

# Eric J Balster

## List of Publications by Year in descending order

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32  
papers

61  
citations

2258059

3  
h-index

2053705

5  
g-index

36  
all docs

36  
docs citations

36  
times ranked

26  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Fixed-Point Processing of the SAR Back-Projection Algorithm on FPGA. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10889-10902.                      | 4.9 | 5         |
| 2  | Integer vs. Floating-Point Processing on Modern FPGA Technology. , 2020, , .   |     | 6         |
| 3  | Convolutional Neural Networks as Classification Tools and Feature Extractors for Distinguishing Malware Programs. , 2019, , .  |     | 5         |
| 4  | CNN Optimization with a Genetic Algorithm. , 2019, , .   |     | 2         |
| 5  | Digital spotlighting filtering optimization for SAR imaging. Eurasip Journal on Image and Video Processing, 2019, 2019, .  | 2.6 | 1         |
| 6  | An accelerated SAR Back Projection Algorithm using Integer Arithmetic. , 2018, , .   |     | 3         |
| 7  | Generalized Power Modeling for Deep Learning. , 2018, , .  |     | 2         |
| 8  | A simulator for spotlight SAR image formation. , 2017, , .   |     | 5         |
| 9  | Enabling Reliable Change Detection for Independently Compressed SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4785-4794.   | 6.3 | 3         |
| 10 | GPGPU Acceleration using OpenCL for a Spotlight SAR Simulator. , 2017, , .   |     | 5         |
| 11 | Multiratio fusion change detection with adaptive thresholding. Journal of Applied Remote Sensing, 2017, 11, 025010.  | 1.3 | 0         |
| 12 | Digital spotlighting parameter evaluation for SAR imaging. , 2017, , .   |     | 0         |
| 13 | Chirp pulse envelope evaluation for SAR image formation. , 2017, , .   |     | 0         |
| 14 | Synthetic aperture radar imaging simulator for pulse envelope evaluation. Journal of Applied Remote Sensing, 2017, 11, 1.  | 1.3 | 4         |
| 15 | High-throughput CAVLC architecture for real-time H.264 coding using reconfigurable devices. Journal of Real-Time Image Processing, 2016, 11, 75-82.  | 3.5 | 1         |
| 16 | A no-reference image enhancement quality metric and fusion technique. , 2015, , .  |     | 1         |
| 17 | A Fast and Accurate Orthorectification Algorithm of Aerial Imagery Using Integer Arithmetic. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1826-1834. | 4.9 | 7         |
| 18 | Arbitrarily shaped virtual-object based video compression. Multimedia Tools and Applications, 2013, 62, 659-680.   | 3.9 | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Comparison of DEM and BEET Linearization Techniques for Flash Analog-to-Digital Converters. Circuits, Systems, and Signal Processing, 2013, 32, 2639-2652. | 2.0 | 0         |
| 20 | Analysis of motion estimation using multiple reference frames in MPEG-4AVC/H.264. , 2012, , .  |     | 0         |
| 21 | Time-Domain Matrix Analysis of Polyphase FIR Filters. International Journal of Electrical Engineering and Education, 2012, 49, 275-290.                    | 0.8 | 0         |
| 22 | Registration of region of interest for object tracking applications in wide area motion imagery. , 2012, , .   |     | 2         |
| 23 | Dynamic Stage Element Matching (DSEM) in Pipeline Analog to Digital Converters (ADC). , 2012, , .  |     | 1         |
| 24 | Sub-optimal truncation in JPEG2000 imagery for rate control and high compression throughput. , 2011, , .   |     | 0         |
| 25 | An efficient software implementation of the CAVLC encoder for H.264/AVC. , 2011, , .   |     | 1         |
| 26 | Integer computation of JPEG2000 wavelet transform and quantization for lossy compression. , 2010, , .  |     | 0         |
| 27 | Rate-distortion development for optimal truncation in JPEG2000 imagery. , 2010, , .  |     | 3         |
| 28 | BYPASS and PARALLEL modes for JPEG2000 compression of natural imagery. , 2010, , .   |     | 1         |
| 29 | Image compression emphasizing pixel size objects in midwave infrared persistent surveillance systems. , 2010, , .  |     | 1         |
| 30 | A model for flash analog-to-digital converters with bit-extended error table linearization. , 2010, , .  |     | 1         |
| 31 | Comparison of DEM and BEET linearization techniques for flash analog-to-digital converters using a SFDR metric. , 2010, , .                                |     | 0         |
| 32 | Efficient processing of JPEG2000 imagery. , 2010, , .  |     | 0         |