

Eric J Balster

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Integer vs. Floating-Point Processing on Modern FPGA Technology. , 2020, , .		6
3	A simulator for spotlight SAR image formation. , 2017, , .		5
4	GPGPU Acceleration using OpenCL for a Spotlight SAR Simulator. , 2017, , .		5
5	Convolutional Neural Networks as Classification Tools and Feature Extractors for Distinguishing Malware Programs. , 2019, , .		5
6	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
7	Synthetic aperture radar imaging simulator for pulse envelope evaluation. Journal of Applied Remote Sensing, 2017, 11, 1.	1.3	4
8	Rate-distortion development for optimal truncation in JPEG2000 imagery. , 2010, , .		3
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	An accelerated SAR Back Projection Algorithm using Integer Arithmetic. , 2018, , .		3
11	Registration of region of interest for object tracking applications in wide area motion imagery. , 2012, , .		2
12	Generalized Power Modeling for Deep Learning. , 2018, , .		2
13	CNN Optimization with a Genetic Algorithm. , 2019, , .		2
14	BYPASS and PARALLEL modes for JPEG2000 compression of natural imagery. , 2010, , .		1
15	Image compression emphasizing pixel size objects in midwave infrared persistent surveillance systems. , 2010, , .		1
16	A model for flash analog-to-digital converters with bit-extended error table linearization. , 2010, , .		1
17	An efficient software implementation of the CAVLC encoder for H.264/AVC. , 2011, , .		1
18	Dynamic Stage Element Matching (DSEM) in Pipeline Analog to Digital Converters (ADC). , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Arbitrarily shaped virtual-object based video compression. Multimedia Tools and Applications, 2013, 62, 659-680.	3.9	1
20	A no-reference image enhancement quality metric and fusion technique. , 2015, , .		1
21	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
22	Digital spotlighting filtering optimization for SAR imaging. Eurasip Journal on Image and Video Processing, 2019, 2019, .	2.6	1
23	Integer computation of JPEG2000 wavelet transform and quantization for lossy compression. , 2010, , .		0
24	Comparison of DEM and BEET linearization techniques for flash analog-to-digital converters using a SFDR metric. , 2010, , .		0
25	Efficient processing of JPEG2000 imagery. , 2010, , .		0
26	Sub-optimal truncation in JPEG2000 imagery for rate control and high compression throughput. , 2011, , .		0
27	Analysis of motion estimation using multiple reference frames in MPEG-4AVC/H.264. , 2012, , .		0
28	Time-Domain Matrix Analysis of Polyphase FIR Filters. International Journal of Electrical Engineering and Education, 2012, 49, 275-290.	0.8	0
29	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
30	Multiratio fusion change detection with adaptive thresholding. Journal of Applied Remote Sensing, 2017, 11, 025010.	1.3	0
31	Digital spotlighting parameter evaluation for SAR imaging. , 2017, , .		0
32	Chirp pulse envelope evaluation for SAR image formation. , 2017, , .		0