

Shoushun Chen

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,381
citations

430874

18
h-index

414414

32
g-index

80
all docs

80
docs citations

80
times ranked

1588
citing authors

#	ARTICLE	IF	CITATIONS
1	Feedforward Categorization on AER Motion Events Using Cortex-Like Features in a Spiking Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1963-1978.	11.3	160
2	Stacking-Dependent Interlayer Coupling in Trilayer MoS ₂ with Broken Inversion Symmetry. Nano Letters, 2015, 15, 8155-8161.	9.1	141
3	A Low-Power Hybrid RO PUF With Improved Thermal Stability for Lightweight Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 1143-1147.	2.7	96
4	Efficient Feedforward Categorization of Objects and Human Postures with Address-Event Image Sensors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 302-314.	13.9	93
5	Arbitrated Time-to-First Spike CMOS Image Sensor With On-Chip Histogram Equalization. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2007, 15, 346-357.	3.1	81
6	CMOS Image Sensor Based Physical Unclonable Function for Coherent Sensor-Level Authentication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2629-2640.	5.4	65
7	Object tracking on event cameras with offline-online learning. CAAI Transactions on Intelligence Technology, 2020, 5, 165-171.	8.1	49
8	Gain-scheduled extended kalman filter for nanosatellite attitude determination system. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1017-1028.	4.7	44
9	A CMOS Image Sensor With On-Chip Image Compression Based on Predictive Boundary Adaptation and Memoryless QTD Algorithm. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 538-547.	3.1	43
10	A Cluster-Based Distributed Active Current Sensing Circuit for Hardware Trojan Detection. IEEE Transactions on Information Forensics and Security, 2014, 9, 2220-2231.	6.9	41
11	A 64 \times 64 Pixels UWB Wireless Temporal-Difference Digital Image Sensor. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 2232-2240.	3.1	38
12	A High Speed Low Power CAM With a Parity Bit and Power-Gated ML Sensing. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 151-156.	3.1	38
13	A 64 \times 64 CMOS Image Sensor With On-Chip Moving Object Detection and Localization. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 581-588.	8.3	35
14	An Autonomous Star Recognition Algorithm with Optimized Database. IEEE Transactions on Aerospace and Electronic Systems, 2013, 49, 1467-1475.	4.7	33
15	Valley polarization in stacked MoS ₂ induced by circularly polarized light. Nano Research, 2017, 10, 1618-1626.	10.4	23
16	A Two-Step Prediction ADC Architecture for Integrated Low Power Image Sensors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 50-60.	5.4	23
17	Robust Intermediate Read-Out for Deep Submicron Technology CMOS Image Sensors. IEEE Sensors Journal, 2008, 8, 286-294.	4.7	21
18	A Hamming Distance and Spearman Correlation Based Star Identification Algorithm. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 17-30.	4.7	21

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19	A Time-Delay-Integration CMOS image sensor with pipelined charge transfer architecture. , 2012, , .		19
20	A compact reconfigurable counter memory for spiking pixels. IEEE Electron Device Letters, 2006, 27, 255-257.	3.9	18
21	A High Dynamic Range CMOS Image Sensor With Dual-Exposure Charge Subtraction Scheme. IEEE Sensors Journal, 2015, 15, 661-662.	4.7	15
22	A Rotation-Invariant Additive Vector Sequence Based Star Pattern Recognition. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 689-705.	4.7	15
23	Event-Guided Structured Output Tracking of Fast-Moving Objects Using a CeleX Sensor. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2413-2417.	8.3	14
24	A robust star identification algorithm with star shortlisting. Advances in Space Research, 2018, 61, 2647-2660.	2.6	12
25	3D depth camera based human posture detection and recognition Using PCNN circuits and learning-based hierarchical classifier. , 2012, , .		11
26	Cluster-based distributed active current timer for hardware Trojan detection. , 2013, , .		11
27	A low-power CAM with efficient power and delay trade-off. , 2011, , .		10
28	Polarization-Based Angle Sensitive Pixels for Light Field Image Sensors With High Spatio-Angular Resolution. IEEE Sensors Journal, 2016, 16, 5183-5194.	4.7	10
29	A 64×64 pixels UWB wireless temporal-difference digital image sensor. , 2010, , .		9
30	An Adaptive Integration Time CMOS Image Sensor With Multiple Readout Channels. IEEE Sensors Journal, 2013, 13, 4931-4939.	4.7	9
31	Track-and-Tune Light Field Image Sensor. IEEE Sensors Journal, 2014, 14, 4372-4384.	4.7	9
32	An Antivibration Time-Delay Integration CMOS Image Sensor With Online Deblurring Algorithm. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1544-1554.	8.3	8
33	A CMOS image sensor with on-chip motion detection and object localization. , 2011, , .		7
34	Design of a radiation tolerant CMOS image sensor. , 2011, , .		7
35	Linear angle sensitive pixels for 4D light field capture. , 2013, , .		7
36	CMOS image sensor based physical unclonable function for smart phone security applications. , 2014, , .		7

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37	Dynamically reconfigurable silicon array of generalized integrate-and-fire neurons. , 2015, , .		7
38	A dual redundancy radiation-hardened Flip-Flop based on C-element in 65nm process. , 2016, , .		7
39	Object Localization and Size Measurement Using Networked Address Event Representation Imagers. IEEE Sensors Journal, 2016, 16, 2894-2895.	4.7	7
40	Realtime feature extraction using MAX-like convolutional network for human posture recognition. , 2011, , .		6
41	Live demonstration: A FSK-OOK ultra wideband impulse radio system with spontaneous clock and data recovery. , 2012, , .		6
42	Dynamic resolution event-based temporal contrast vision sensor. , 2016, , .		6
43	VELOX-II: Challenges of developing a 6U nanosatellite. , 2016, , .		6
44	A Motion Sensor with On-Chip Pixel Rendering Module for Optical Flow Gradient Extraction. , 2018, , .		6
45	Flow-assisted visual tracking using event cameras. CAAI Transactions on Intelligence Technology, 2021, 6, 192-202.	8.1	6
46	A bio-inspired event-based size and position invariant human posture recognition algorithm. , 2009, , .		5
47	Bio-inspired categorization using event-driven feature extraction and spike-based learning. , 2014, , .		5
48	Incident light angle detection technique using polarization pixels. , 2014, , .		5
49	Live demonstration: A dynamic vision sensor with direct logarithmic output and full-frame picture-on-demand. , 2016, , .		5
50	Graphene homojunction: closed-edge bilayer graphene by pseudospin interaction. Nanoscale, 2016, 8, 9102-9106.	5.6	5
51	A second generation 3D integrated feature-extracting image sensor. , 2011, , .		4
52	A bio-inspired feedforward system for categorization of AER motion events. , 2013, , .		4
53	Event-driven simulation of the tempotron spiking neuron. , 2014, , .		4
54	Low-power column-parallel ADC for CMOS image sensor by leveraging spatial likelihood in natural scene. , 2014, , .		4

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55	A high accuracy star tracker using running sequential angular match technique. , 2016, , .		4
56	A Global-Shutter Centroiding Measurement CMOS Image Sensor With Star Region SNR Improvement for Star Trackers. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 1555-1562.	8.3	4
57	The Design of Clocked-Comparator-Based Time-Interval Measurement Circuit for Pulse ToF Measurement. IEEE Sensors Journal, 2017, 17, 6699-6706.	4.7	4
58	A hybrid-readout and dynamic-resolution motion detection image sensor for object tracking. , 2012, , .		3
59	An adaptive integration time CMOS image sensor with multiple readout channels for star trackers. , 2013, , .		3
60	A low power prediction SAR ADC integrated with DPCM data compression feature for WCE application. , 2016, , .		3
61	FPGA Implementation of Image Compression using DPCM and FBAR. , 2007, , .		2
62	A size and position invariant event-based human posture recognition algorithm. , 2008, , .		2
63	A biologically inspired system for human posture recognition. , 2009, , .		2
64	Design and characterization of radiation-tolerant CMOS 4T Active Pixel Sensors. , 2014, , .		2
65	A dual-exposure in-pixel charge subtraction CTIA CMOS image sensor for centroid measurement in star trackers. , 2014, , .		2
66	An 8-stage time delay integration CMOS image sensor with on-chip polarization pixels. , 2015, , .		2
67	Frequency-response-associated delay-dispersion issue in time-delay measuring sensors. , 2016, , .		2
68	Novel VLSI implementation of Peano-Hilbert curve address generator. , 2008, , .		1
69	Live demonstration: A real-time moving object localization and extraction system. , 2012, , .		1
70	Live demonstration: A high-speed-pass asynchronous motion detection sensor. , 2013, , .		1
71	A high-resolution on-chip propagation delay measurement scheme. , 2015, , .		1
72	A spearman correlation based star pattern recognition. , 2017, , .		1

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73	Live demonstration: A bio-inspired event-based size and position invariant human posture recognition algorithm. , 2009, , .		0
74	Low IR drop and low power parallel CAM design using gated power transistor technique. , 2010, , .		0
75	1-bit heuristic adaptive quantizer (HAQ) for on chip image compression in CMOS image sensors. , 2011, , .		0
76	A neuromorphic categorization system with Online Sequential Extreme Learning. , 2014, , .		0
77	A second-generation noise-immune motion detection image sensor for moving object tracking application. , 2014, , .		0
78	A time delay integration CMOS image sensor with online deblurring algorithm. , 2015, , .		0
79	A star shortlisting technique for a lost-in-space mode star tracker. , 2018, , .		0
80	A Star Pattern Recognition Technique Based on the Binary Pattern Formed from the FFT Coefficients. , 2018, , .		0