Takao Onoye

List of Publications by Year
in descending order

123 papers	760 citations	759233 12 h-index	713466 21 g-index
123 all docs	123 docs citations	123 times ranked	610 citing authors

#	Article	IF	Citations
1	A Low-cost Privacy Concerning Occupancy Estimation System for HVAC Control. , 2022, , .		0
2	A Thermal Comfort and Peak Power Demand Aware VRF Heating/Cooling Management Framework: Simulation and On-site Experiment. Journal of Information Processing, 2022, 30, 476-485.	0.4	3
3	A Case Study on FPGA Implementation of Parts Counting Orientation Recognition Method for Industrial Vision System. IPSJ Transactions on System LSI Design Methodology, 2021, 14, 21-23.	0.8	0
4	Video Anomaly Detection Based on Deep Generative Network. , 2021, , .		8
5	Multi-time scale energy management framework for smart PV systems mixing fast and slow dynamics. Applied Energy, 2021, 289, 116671.	10.1	25
6	Multi-scale Xception based depthwise separable convolution for single image super-resolution. PLoS ONE, 2021, 16, e0249278.	2.5	15
7	Experimental Evaluation of Reduction Technique for Time Delay of Turning Off Light to Occupancy Lighting Control. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 265-274.	1.4	2
8	An Approach to Detect Anomaly in Video Using Deep Generative Network. IEEE Access, 2021, 9, 150903-150910.	4.2	8
9	A template-free object motion estimation method for industrial vision system in aligning machine. , 2020, , .		0
10	Non-Contact Respiration Monitoring and Body Movements Detection for Sleep Using Thermal Imaging. Sensors, 2020, 20, 6307.	3.8	33
11	StickyTouch: A Tactile Display with Changeable Adhesive Distribution. , 2020, , .		0
12	SOH Aware System-Level Battery Management Methodology for Decentralized Energy Network. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 596-604.	0.3	1
13	Fast and Robust Building Extraction Based on HSV Color Analysis Using Color Segmentation and GrabCut. SICE Journal of Control Measurement and System Integration, 2020, 13, 97-106.	0.7	2
14	Evaluation for Energy Savings in Occupancy Lighting Control using Vision-based Motion Sensor. Transactions of the Institute of Systems Control and Information Engineers, 2020, 33, 139-148.	0.1	1
15	Acceleration of Automatic Building Extraction via Color-Clustering Analysis. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 1599-1602.	0.3	2
16	Magic Line: An Integrated Method for Fast Parts Counting and Orientation Recognition Using Industrial Vision Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 928-936.	0.3	2
17	A Node-Grouping Based Spatial Spectrum Reuse Method for WLANs in Dense Residential Scenarios. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 917-927.	0.3	0
18	Parallelization of Local Path Planning for High Reliable Autonomous Drones. , 2020, , .		1

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19	Evaluation of Auditory Signals in an Automobile for Safe Driving. , 2019, , .		2
20	An Approach to Non-contact Monitoring of Respiratory Rate and Breathing Pattern Based on Slow Motion Images. , 2019, , .		2
21	Ensembility among musicians according to their swaying movements and its relationship with musical performance. The Japanese Journal of Experimental Social Psychology, 2019, 58, 122-134.	0.3	1
22	StickyTouch: An Adhesion Changeable Surface. , 2019, , .		1
23	Air-Writing Recognition Based on Fusion Network for Learning Spatial and Temporal Features. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1737-1744.	0.3	6
24	SoH Aware Battery Management Optimization on Decentralized Energy Network. , 2018, , .		1
25	Picture level control method for bright regions of HDR images in power management of large AMOLED displays. Journal of the Society for Information Display, 2018, 26, 641-648.	2.1	2
26	Hardware Architecture for High-Speed Object Detection Using Decision Tree Ensemble. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1298-1307.	0.3	5
27	42-2: Invited Paper: OptRod: A Shape-Free and Multi-Functional Display System Operated by Projected Images. Digest of Technical Papers SID International Symposium, 2018, 49, 532-535.	0.3	1
28	Activation-Aware Slack Assignment for Time-to-Failure Extension and Power Saving. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2217-2229.	3.1	3
29	An analytic evaluation on soft error immunity enhancement due to temporal triplication. International Journal of Embedded Systems, 2018, 10, 22.	0.3	0
30	Performance Evaluation of Software-Based Error Detection Mechanisms for Supply Noise Induced Timing Errors. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1452-1463.	0.3	0
31	3D node localization from node-to-node distance information using cross-entropy method. , 2015, , .		3
32	Design of generic hardware for soft cascade-based linear SVM classification. , 2015, , .		0
33	Hardware Architecture of the Fast Mode Decision Algorithm for H.265/HEVC. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1787-1795.	0.3	0
34	Area efficient device-parameter estimation using sensitivity-configurable ring oscillator. , 2015, , .		0
35	Hierarchical Structure-Based Fast Mode Decision for H.265/HEVC. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1651-1664.	8.3	36
36	Real-time on-chip supply voltage sensor and its application to trace-based timing error localization. , 2015, , .		7

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37	Characterizing Alpha- and Neutron-Induced SEU and MCU on SOTB and Bulk 0.4-V SRAMs. IEEE Transactions on Nuclear Science, 2015, 62, 420-427.	2.0	20
38	An oscillator-based true random number generator with process and temperature tolerance. , 2015, , .		6
39	Proximity distance estimation based on electric field communication between 1Âmm3 sensor nodes. Analog Integrated Circuits and Signal Processing, 2015, 85, 425-432.	1.4	4
40	Partial Encryption Method That Enhances MP3 Security. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1760-1768.	0.3	0
41	Device-Parameter Estimation with Sensitivity-Configurable Ring Oscillator. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 2607-2613.	0.3	0
42	Hardware architecture of the fast mode decision algorithm for H.265/HEVC. , 2014, , .		0
43	Progressive audio scrambling via complete binary tree's traversal and wavelet transform. , 2014, , .		1
44	Progressive audio scrambling via wavelet transform. , 2014, , .		1
45	Corrections to "A Speed-Up Scheme Based on Multiple-Instance Pruning for Pedestrian Detection Using a Support Vector Machine"[Dec 13 4752-4761]. IEEE Transactions on Image Processing, 2014, 23, 478-478.	9.8	8
46	Measurement of Length of a Single Tooth Using PCA-Signature and Bezier Curve. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 2161-2169.	0.3	0
47	Feasibility Evaluation on an Instant Invader Detection System with Ultrasonic Sensors Scattered on the Ground. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-6.	0.7	0
48	Impact of NBTI-Induced Pulse-Width Modulation on SET Pulse-Width Measurement. IEEE Transactions on Nuclear Science, 2013, 60, 2630-2634.	2.0	15
49	Proximity distance estimation based on capacitive coupling between 1mm^3 sensor nodes. , 2013, , .		0
50	Real-Time Supply Voltage Sensor for Detecting/Debugging Electrical Timing Failures. , 2013, , .		5
51	A Worst-Case-Aware Design Methodology for Noise-Tolerant Oscillator-Based True Random Number Generator With Stochastic Behavior Modeling. IEEE Transactions on Information Forensics and Security, 2013, 8, 1331-1342.	6.9	22
52	Hardware-oriented fast mode decision algorithm for intra prediction in HEVC. , 2013, , .		4
53	Emoballoon: A balloon-shaped interface recognizing social touch interactions. , 2013, , .		6
54	Stochastic error rate estimation for adaptive speed control with field delay testing. , 2013, , .		12

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55	A process and temperature tolerant oscillator-based true random number generator with dynamic 0/1 bias correction. , 2013, , .		17
56	A Speed-Up Scheme Based on Multiple-Instance Pruning for Pedestrian Detection Using a Support Vector Machine. IEEE Transactions on Image Processing, 2013, 22, 4752-4761.	9.8	11
57	Supply Noise Suppression by Triple-Well Structure. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 781-785.	3.1	12
58	Feasibility evaluation of near-field communication in clay with 1-mm^3 antenna. , 2013, , .		2
59	High-performance multiplierless transform architecture for HEVC. , 2013, , .		20
60	A 0.8-V 110-nA CMOS current reference circuit using subthreshold operation. IEICE Electronics Express, 2013, 10, 20130022-20130022.	0.8	4
61	PVT-induced timing error detection through replica circuits and time redundancy in reconfigurable devices. IEICE Electronics Express, 2013, 10, 20130081-20130081.	0.8	3
62	Field Slack Assessment for Predictive Fault Avoidance on Coarse-Grained Reconfigurable Devices. IEICE Transactions on Information and Systems, 2013, E96.D, 1624-1631.	0.7	0
63	Signal-Dependent Analog-to-Digital Conversion Based on MINIMAX Sampling. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 459-468.	0.3	5
64	A Single Tooth Segmentation Using PCA-Stacked Gabor Filter and Active Contour. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 2169-2178.	0.3	2
65	A Ray Tracing Simulation of Sound Diffraction Based on the Analytic Secondary Source Model. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2448-2460.	3.2	7
66	Cup-le : A cup-shaped device for conversational experiment. , 2012, , .		2
67	ESS News. Ieice Ess Fundamentals Review, 2012, 6, 63-64.	0.1	0
68	SET pulse-width measurement eliminating pulse-width modulation and within-die process variation effects. , 2012, , .		5
69	A hierarchical motion smoothing for distributed scalable video coding. , 2012, , .		1
70	Body bias clustering for low test-cost post-silicon tuning. , 2012, , .		0
71	Static voltage over-scaling and dynamic voltage variation tolerance with replica circuits and time redundancy in reconfigurable devices. , 2012, , .		0
72	Adaptive Performance Compensation With In-Situ Timing Error Predictive Sensors for Subthreshold Circuits. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 333-343.	3.1	51

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73	A predictive delay fault avoidance scheme for coarse-grained reconfigurable architecture. , 2012, , .		1
74	Power Gating Implementation for Supply Noise Mitigation with Body-Tied Triple-Well Structure. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 2220-2225.	0.3	0
75	A Body Bias Clustering Method for Low Test-Cost Post-Silicon Tuning. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 2292-2300.	0.3	0
76	An Average-Performance-Oriented Subthreshold Processor Self-Timed by Memory Read Completion. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 299-303.	3.0	7
77	Jitter amplifier for oscillator-based true random number generator. , 2011, , .		3
78	Implications of Reliability Enhancement Achieved by Fault Avoidance on Dynamically Reconfigurable Architectures. , 2011, , .		2
79	An oscillator-based true random number generator with jitter amplifier. , 2011, , .		13
80	Neutron induced single event multiple transients with voltage scaling and body biasing. , 2011, , .		42
81	Signal-dependent analog-to-digital conversion based on MINIMAX sampling. , 2011, , .		1
82	Neutron-Induced Soft Errors and Multiple Cell Upsets in 65-nm 10T Subthreshold SRAM. IEEE Transactions on Nuclear Science, 2011, 58, 2097-2102.	2.0	26
83	Extracting Device-Parameter Variations with RO-Based Sensors. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 2537-2544.	0.3	1
84	Ishigaki Report. Ieice Ess Fundamentals Review, 2010, 4, 166-168.	0.1	2
85	VLSI design of OFDM baseband transceiver with dynamic spectrum access. , 2010, , .		0
86	Measurement of on-chip I/O power supply noise and correlation verification between noise magnitude and delay increase due to SSO. , 2010, , .		0
87	Comparative study on delay degrading estimation due to NBTI with circuit/instance/transistor-level stress probability consideration. , 2010, , .		14
88	Adaptive performance control with embedded timing error predictive sensors for subthreshold circuits. , 2010, , .		0
89	Transistor Variability Modeling and its Validation With Ring-Oscillation Frequencies for Body-Biased Subthreshold Circuits. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2010, 18, 1118-1129.	3.1	10
90	Measurement circuits for acquiring SET pulsewidth distribution with sub-FO1-inverter-delay resolution. , 2010, , .		17

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91	Evaluation of power gating structures focusing on power supply noise with measurement and simulation. , 2010, , .		4
92	Alpha-particle-induced soft errors and multiple cell upsets in 65-nm 10T subthreshold SRAM. , 2010, , .		19
93	Implementation of simultaneous video decoding on multicore processor. , 2010, , .		0
94	Prediction of Self-Heating in Short Intra-Block Wires. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 583-594.	0.3	0
95	Implementation of OFDM baseband transceiver with dynamic spectrum access for cognitive radio systems. , 2009, , .		5
96	Adaptive performance compensation with in-situ timing error prediction for subthreshold circuits. , 2009, , .		18
97	Soft error resilient VLSI architecture for signal processing. , 2009, , .		0
98	Load adaptive decoder control method for simultaneous video playback. , 2009, , .		0
99	Anode-voltage-control circuit for compensation of luminance deterioration. Journal of the Society for Information Display, 2009, 17, 779.	2.1	0
100	All-Digital Ring-Oscillator-Based Macro for Sensing Dynamic Supply Noise Waveform. IEEE Journal of Solid-State Circuits, 2009, 44, 1745-1755.	5.4	33
101	Efficient Memory Organization Framework for JPEG2000 Entropy Codec. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 1970-1977.	0.3	0
102	Measurement and Analysis of Inductive Coupling Noise in 90 nm Global Interconnects. IEEE Journal of Solid-State Circuits, 2008, 43, 718-728.	5.4	7
103	Video image enhancement scheme for high resolution consumer devices. , 2008, , .		2
104	Clock Skew Evaluation Considering Manufacturing Variability in Mesh-Style Clock Distribution. , 2008, , .		2
105	Measurement of supply noise suppression by substrate and deep N-well in 90nm process. , 2008, , .		11
106	Dynamic supply noise measurement circuit composed of standard cells suitable for in-site SoC power integrity verification. , 2008, , .		2
107	An Energy-efficient Architecture of Wireless Home Network Based on MAC Broadcast and Transmission Power Control. , 2007, , .		3
108	Dynamic Supply Noise Measurement with All Digital Gated Oscillator for Evaluating Decoupling Capacitance Effect. , 2007, , .		5

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109	Future Prediction of Self-Heating in Short Intra-Block Wires. , 2007, , .		3
110	An energy-efficient architecture of wireless home network based on MAC broadcast and transmission power control. IEEE Transactions on Consumer Electronics, 2007, 53, 124-130.	3.6	8
111	Validation of a Full-Chip Simulation Model for Supply Noise and Delay Dependence on Average Voltage Drop With On-Chip Delay Measurement. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2007, 54, 868-872.	2.2	31
112	Automatic filter design for 3-D sound movement in embedded applications. Acoustical Science and Technology, 2007, 28, 219-229.	0.5	0
113	Design Framework For JPEG2000 System Architecture. Intelligent Automation and Soft Computing, 2006, 12, 331-343.	2.1	0
114	Quantitative Prediction of On-chip Capacitive and Inductive Crosstalk Noise and Discussion on Wire Cross-Sectional Area Toward Inductive Crosstalk Free Interconnects. Proceedings - IEEE International Conference on Computer Design: VLSI in Computers and Processors, 2006, , .	0.0	2
115	A Gate Delay Model Focusing on Current Fluctuation over Wide-Range of Process and Environmental Variability. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , .	0.0	2
116	Probabilistic Pedestrian Tracking Based on a Skeleton Model. , 2006, , .		2
117	VLSI Architecture of 1.264 Block Size Decision based on Rate-Distortion Optimization. , 2006, , .		2
118	W-CDMA Channel Codec by Configurable Processors. Intelligent Automation and Soft Computing, 2006, 12, 317-329.	2.1	0
119	Measurement of Inductive Coupling Effect on Timing in 90nm Global Interconnects. , 2006, , .		4
120	Measurement results of delay degradation due to power supply noise well correlated with full-chip simulation. , 2006, , .		2
121	Single DSP Implementation of Realtime 3D Sound Synthesis Algorithm. Journal of Circuits, Systems and Computers, 2003, 12, 55-73.	1.5	6
122	Spatiotemporal segmentation for compact video representation. Signal Processing: Image Communication, 2001, 16, 553-566.	3.2	29
123	Single Chip Implementation of Encoder-Decoder for Low Bit Rate Visual Communication. Journal of Circuits, Systems and Computers, 1997, 07, 441-457.	1.5	0