

# Jun-Dong Cho

## List of Publications by Year in descending order

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Version: 2024-02-01

155  
papers

1,275  
citations

687220

13  
h-index

477173

29  
g-index

160  
all docs

160  
docs citations

160  
times ranked

1234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Triboelectric-piezoelectric-electromagnetic hybrid nanogenerator for high-efficient vibration energy harvesting and self-powered wireless monitoring system. Nano Energy, 2018, 43, 326-339.	8.2	160
2	High-Performance PZT-Based Stretchable Piezoelectric Nanogenerator. ACS Sustainable Chemistry and Engineering, 2019, 7, 979-985.	3.2	151
3	All-in-one filler-elastomer-based high-performance stretchable piezoelectric nanogenerator for kinetic energy harvesting and self-powered motion monitoring. Nano Energy, 2018, 53, 550-558.	8.2	91
4	Core-shell coaxially structured triboelectric nanogenerator for energy harvesting and motion sensing. RSC Advances, 2018, 8, 2950-2957.	1.7	67
5	Two-dimensional triboelectric-electromagnetic hybrid nanogenerator for wave energy harvesting. Nano Energy, 2019, 58, 147-157.	8.2	54
6	Hot & tight. , 2015, , .		37
7	A high speed and low power phase-frequency detector and charge-pump. , 1999, , .		33
8	Fast approximation algorithms on maxcut, k-coloring, and k-color ordering for VLSI applications. IEEE Transactions on Computers, 1998, 47, 1253-1266.	2.4	31
9	Indoor Positioning System: A New Approach Based on LSTM and Two Stage Activity Classification. Electronics (Switzerland), 2019, 8, 375.	1.8	28
10	Accessible Visual Artworks for Blind and Visually Impaired People: Comparing a Multimodal Approach with Tactile Graphics. Electronics (Switzerland), 2021, 10, 297.	1.8	26
11	A Study of Multi-Sensory Experience and Color Recognition in Visual Arts Appreciation of People with Visual Impairment. Electronics (Switzerland), 2021, 10, 470.	1.8	23
12	M/sup 2/R: multilayer routing algorithm for high-performance MCMs. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 253-265.	0.1	21
13	Ultra-high density standard cell library using multi-height cell structure. Proceedings of SPIE, 2008, , .	0.8	20
14	An Interactive Multimodal Guide to Improve Art Accessibility for Blind People. , 2018, , .		20
15	Better Posture Awareness through Flower-Shaped Ambient Avatar. , 2015, , .		18
16	Exploring Art with a Voice Controlled Multimodal Guide for Blind People. , 2019, , .		17
17	A buffer distribution algorithm for high-performance clock net optimization. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 1995, 3, 84-98.	2.1	16
18	Interactive and Connected Tableware for Promoting Children's Vegetable-Eating and Family Interaction. , 2016, , .		16

#	ARTICLE	IF	CITATIONS
19	Food Intake Detection and Classification Using a Necklace-Type Piezoelectric Wearable Sensor System. IEICE Transactions on Information and Systems, 2018, E101.D, 2795-2807.	0.4	15
20	SnackBreaker. , 2015, , .		15
21	People's Emotional Responses to a Plant's Emotional Expression. , 2015, , .		14
22	Sound Coding Color to Improve Artwork Appreciation by People with Visual Impairments. Electronics (Switzerland), 2020, 9, 1981.	1.8	13
23	A Real-time Compact Structured-light based Range Sensing System. Journal of Semiconductor Technology and Science, 2012, 12, 193-202.	0.1	13
24	<i>Slowee</i>. , 2016, , .		12
25	Controlled spalling and flexible integration of PZT film based on LaNiO3 buffer layer. Ceramics International, 2019, 45, 6373-6379.	2.3	12
26	Tactile colour pictogram to improve artwork appreciation of people with visual impairments. Color Research and Application, 2021, 46, 103-116.	0.8	12
27	Please Touch Color: Tactile-Color Texture Design for The Visually Impaired. , 2020, , .		11
28	Low power VLSI architecture of Viterbi scorer for HMM-based isolated word recognition. , 0, , .		10
29	Software implementation of TPEG decoder on a T-DMB using X-PAD. , 2008, , .		10
30	Flexible heterogeneous integration of PZT film by controlled spalling technology. Journal of Alloys and Compounds, 2019, 807, 151696.	2.8	10
31	The compensation system for the event in the fuel cell mobile phone. , 2008, , .		9
32	Real time rectification using differentially encoded lookup table. , 2011, , .		9
33	Thermal Interaction for Improving Tactile Artwork Depth and Color-Depth Appreciation for Visually Impaired People. Electronics (Switzerland), 2020, 9, 1939.	1.8	9
34	The pin redistribution problem in multi-chip modules. Mathematical Programming, 1994, 63, 297-330.	1.6	8
35	A fast VLSI implementation of sorting algorithm for standard median filters. , 0, , .		8
36	Construction of a Soundscape-Based Media Art Exhibition to Improve User Appreciation Experience by Using Deep Neural Networks. Electronics (Switzerland), 2021, 10, 1170.	1.8	8

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37	A Feedback System for the Prevention of Forward Head Posture in Sedentary Work Environments. , 2016, , .		8
38	Lower power Viterbi decoder architecture with a new clock-gating trace-back unit. , 0, , .		7
39	Logmusic. , 2014, , .		7
40	Design and performance analysis of a cost-effective proxy-LMA mobility management scheme in IP-based mobile networks with global mobility support. International Journal of Ad Hoc and Ubiquitous Computing, 2016, 21, 273.	0.3	7
41	Flexible one-structure arched triboelectric nanogenerator based on common electrode for high efficiency energy harvesting and self-powered motion sensing. AIP Advances, 2018, 8, .	0.6	7
42	Wiring space and length estimation in two-dimensional arrays. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2000, 19, 612-615.	1.9	6
43	Smart maternity clothes for visualizing fetal movement data. , 2015, , .		6
44	DenTeach. , 2016, , .		6
45	ColorWatch: Color Perceptual Spatial Tactile Interface for People with Visual Impairments. Electronics (Switzerland), 2021, 10, 596.	1.8	6
46	Multi-Sensory Color Code Based on Sound and Scent for Visual Art Appreciation. Electronics (Switzerland), 2021, 10, 1696.	1.8	6
47	New approximation results on graph matching and related problems. Lecture Notes in Computer Science, 1995, , 343-358.	1.0	6
48	Adaptive Sampling for ECG Detection Based on Compression Dictionary. Journal of Semiconductor Technology and Science, 2013, 13, 608-616.	0.1	6
49	Simplified Relative Model to Measure Visual Fatigue in a Stereoscopy. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 2830-2831.	0.2	5
50	Visual fatigue measurement model in stereoscopy based on Bayesian network. Optical Engineering, 2013, 52, 083110.	0.5	5
51	Fuzzy logic based handoff scheme for heterogeneous vehicular mobile networks. , 2014, , .		5
52	A real-time rectification using an adaptive differential encoding for high-resolution video. , 2014, , .		5
53	BeuPo. , 2015, , .		5
54	Designing mHealth intervention for Women in Menopausal Period. , 2015, , .		5

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55	TakeOut. , 2016, , .		5
56	Quantifying Children's Engagement with Educational Tangible Blocks. , 2017, , .		5
57	Cost Analysis of Integrated HIP-PMIPv6 Handoff Scheme in Multicasting-Based Mobile Networks. Advanced Science Letters, 2015, 21, 321-327.	0.2	5
58	A fast region expansion labeling of connected components in binary image. , 2014, , .		4
59	Automatically Adjusting the Speed of E-Learning Videos. , 2015, , .		4
60	An eating speed guide system using a wristband and tabletop unit. , 2016, , .		4
61	On Cross-Layer Based Handoff Scheme in Heterogeneous Mobile Networks. Lecture Notes in Computer Science, 2016, , 482-493.	1.0	4
62	On Multicasting-Based Fast Inter-Domain Handover Scheme in Proxy Mobile IPv6 Networks. Lecture Notes in Computer Science, 2016, , 494-505.	1.0	4
63	Smart-rug. , 2016, , .		4
64	ColorPoetry: Multi-Sensory Experience of Color with Poetry in Visual Arts Appreciation of Persons with Visual Impairment. Electronics (Switzerland), 2021, 10, 1064.	1.8	4
65	On Efficient SC-Based Soft Handoff Scheme in Proxy Mobile IPv6 Networks. Lecture Notes in Computer Science, 2016, , 251-262.	1.0	4
66	Low-power design and architecture. IEEE Potentials, 2001, 20, 18-22.	0.2	3
67	On the Configurable Multiprocessor SoC Platform with Crossbar Switch. , 2006, , .		3
68	Implementation of a LED display system for high quality video processing. , 2009, , .		3
69	Optimizing a Virtual Re-Convergence System to Reduce Visual Fatigue in Stereoscopic Camera. IEICE Transactions on Information and Systems, 2012, E95.D, 1238-1247.	0.4	3
70	Dynamic search range using sparse disparity map for fast stereo matching. , 2012, , .		3
71	Fast rotation-invariant template matching with candidate reduction using CUDA. , 2015, , .		3
72	Understanding Interactive Interface Design Requirements for the Visually Impaired. , 2015, , .		3

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73	Designing Conversational Voice User Interface for Improving Intimacy of Shared Invehicle. , 2018, , .		3
74	Hardware-accelerated Fast Lossless Compression Based on LZ4 Algorithm. , 2019, , .		3
75	3D Sound Coding Color for the Visually Impaired. Electronics (Switzerland), 2021, 10, 1037.	1.8	3
76	Multi-Sensory Color Expression with Sound and Temperature in Visual Arts Appreciation for People with Visual Impairment. Electronics (Switzerland), 2021, 10, 1336.	1.8	3
77	Exergame Development Using Body Composition Data for Obesity Care. , 2015, , .		3
78	An optimum pin redistribution for MultiChip modules. , 0, , .		2
79	An SoC-Based Context-Aware System Architecture. Lecture Notes in Computer Science, 2004, , 573-580.	1.0	2
80	Novel area-efficient regenerator for driving long on-chip interconnects. IEICE Electronics Express, 2008, 5, 338-343.	0.3	2
81	A reconfigurable pipelined deblocking filter for H.264/AVC. , 2010, , .		2
82	A new dual asymmetric bit-line sense amplifier for low-voltage dynamic random access memory. IEICE Electronics Express, 2013, 10, 20130647-20130647.	0.3	2
83	Reduction of authentication cost based on key caching for inter-MME handover support. , 2014, , .		2
84	Experiment on Emotional Exchange Method through Phone Stack Game. , 2015, , .		2
85	Slate master. , 2017, , .		2
86	EYE DEAR. , 2017, , .		2
87	Moonglow. , 2018, , .		2
88	Exploring Thermal Interaction for Visual Art Color Appreciation for the Visually Impaired People. , 2020, , .		2
89	Indoor Positioning System: Improved deep learning approach based on LSTM and multi-stage activity classification. , 2020, , .		2
90	A Study on Using Color-Concept Directed Scent to Allow Visually Impaired People to Appreciate Paintings. Korean Society for Emotion and Sensibility, 2020, 23, 73-92.	0.0	2

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91	Efficient Hardware Implementation of Real-time Rectification using Adaptively Compressed LUT. Journal of Semiconductor Technology and Science, 2016, 16, 44-57.	0.1	2
92	Development of a Beam Buncher for the KIRAMS-30 Cyclotron. Journal of the Korean Physical Society, 2010, 56, 1960-1963.	0.3	2
93	A Real-Time Virtual Re-Convergence Hardware Platform. Journal of Semiconductor Technology and Science, 2012, 12, 127-138.	0.1	2
94	Approximation algorithm on multi-way maxcut partitioning. Lecture Notes in Computer Science, 1994, , 148-158.	1.0	1
95	Low Power Digital Multimedia Telecommunication Designs. VLSI Design, 2001, 12, 301-315.	0.5	1
96	A VLSI Design of High Speed Bit-level Viterbi Decoder. , 2006, , .		1
97	Partial resolution for redundant operation table. Microprocessors and Microsystems, 2008, 32, 79-94.	1.8	1
98	Verification Platform with ARM- and DSP-Based Multiprocessor Architecture for DVB-T Baseband Receivers. ETRI Journal, 2008, 30, 141-151.	1.2	1
99	Score-based fixing guidance generation with accurate hot-spot detection method. Proceedings of SPIE, 2009, , .	0.8	1
100	Noise reduction scheme of temporal and spatial filter for 3D video real-time processing. , 2011, , .		1
101	Real-time smoothing filter for three dimensional disparity map algorithm and hardware implementation. , 2011, , .		1
102	Real-time digital image stabilization using motion sensors for search range reduction. , 2012, , .		1
103	Radio-frequency system of the KIRAMS-30 cyclotron for RI mass production. Journal of the Korean Physical Society, 2012, 61, 193-196.	0.3	1
104	Low Visual Fatigue Stereoscopic Auto Focus using disparity map. , 2012, , .		1
105	Cost-Effective Proxy-LMA Mobility Management Scheme in Mobile Networks with Global Mobility Support. , 2014, , .		1
106	A review on system level low power techniques. , 2014, , .		1
107	On Security-Effective and Global Mobility Management for FPMIPv6 Networks. , 2014, , .		1
108	Seamless SPMIPv6-Based Handoff Scheme for Next-Generation Mobile Networks. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
109	On high-computational disparity acquisition of HD image using CUDA implementation for stereo matching. , 2015, , .		1
110	Detecting Fingertip Robust Scale-Invariant and Rotation Invariant with Stereo Camera. , 2015, , .		1
111	Visual fatigue measurement model based on multi-area variance in a stereoscopy. , 2016, , .		1
112	H-Slate. , 2017, , .		1
113	D-TOX. , 2017, , .		1
114	Stretchertainment. , 2017, , .		1
115	AI Ekphrasis: Multi-Modal Learning with Foundation Models for Fine-Grained Poetry Retrieval. Electronics (Switzerland), 2022, 11, 1275.	1.8	1
116	VLSI architecture for low power motion estimation using high data access reuse. , 0, , .		0
117	Maximizing memory data reuse for lower power motion estimation. , 2000, , .		0
118	Area-efficient and reusable VLSI architecture of decision feedback equalizer for QAM modem. , 0, , .		0
119	Deep-submicron Placement Minimizing Crosstalk. VLSI Design, 2001, 12, 1-12.	0.5	0
120	High speed 3D acquisition chip design for robot applications. , 2008, , .		0
121	Temperature-aware binding for clock skew reduction based on switching activity balancing. , 2010, , .		0
122	Suppression of Edge Effects Based on Analytic Model for Leakage Current Reduction of Sub-40 nm DRAM Device. IEICE Transactions on Electronics, 2010, E93-C, 658-661.	0.3	0
123	Low Power Binding for Switching Activity Reduction Based on Table Decomposition Method. , 2010, , .		0
124	New Design Based Metrology for Fast Detection of Crucial Lithographic Defects. Japanese Journal of Applied Physics, 2011, 50, 06GB11.	0.8	0
125	Redundant-dictionary based adaptive sampling for transient ECG signal measurement. , 2012, , .		0
126	A search range prediction for fast stereo matching in 3-D video. , 2012, , .		0



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127	Noise immunity improvement in the RESET signal of DDR3 SDRAM memory module. , 2013, , .		0
128	On mathematical modeling of hierarchical mobility management protocols. , 2014, , .		0
129	Analytical Modeling of IP-based Hierarchical Mobility Management Protocols. , 2014, , .		0
130	Ring Projection Transforms by using CUDA implementation for recognizing objects in automation system. , 2014, , .		0
131	Adjustment of brightness contrast for fatigue decrease in stereo image production. , 2014, , .		0
132	Fast depth evaluation from pattern projection in conjunction with connected component labeling. , 2014, , .		0
133	Effective object recognition based on CUDA. , 2015, , .		0
134	Random-walk mobility management scheme for sensor-based mobile networks. International Journal of Security and Networks, 2015, 10, 261.	0.1	0
135	A real-time rectification using an adaptive binary encoding for high-resolution video. , 2015, , .		0
136	Predicting visual fatigue in 3D image viewing by adjusting the baseline positioning. , 2015, , .		0
137	Simple object coordination tracking based on background modeling. , 2015, , .		0
138	Robust-rotation recognition based on contour matching using CUDA in automation system. , 2015, , .		0
139	Design Guideline on Location Based User Emotion Sharing Map Service. Communications in Computer and Information Science, 2015, , 514-518.	0.4	0
140	Hide and Seek. , 2016, , .		0
141	CIRCLE ROUND; Flexible Communication using Multiple Access at Face-to-Face Meeting. , 2016, , .		0
142	Clothes radar: A crowdsourcing application collecting and displaying user clothes data. , 2016, , .		0
143	Subway Passenger Distribution System by using CO2 Concentrations Data. , 2016, , .		0
144	Visual fatigue measurement model based on multi-area variance in a stereoscopy. , 2016, , .		0

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145	Fam-On. , 2017, , .		0
146	Home Talky. , 2017, , .		0
147	D-Aquarium. , 2018, , .		0
148	Maximizing Memory Data Reuse for Lower Power Motion Estimation. VLSI Design, 2002, 14, 299-305.	0.5	0
149	Accurate Systematic Hot-Spot Scoring Method and Score-Based Fixing Guidance Generation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92.A, 3082-3085.	0.2	0
150	Low Power Bus Binding Exploiting Optimal Substructure. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 332-341.	0.2	0
151	Preliminary Guidelines to Build a Wearable Health Monitoring System for Patients: Focusing on a Wearable Device with a Wig. Communications in Computer and Information Science, 2015, , 361-365.	0.4	0
152	A Portable System of Visual Fatigue Evaluation for Stereoscopic Display. Lecture Notes in Computer Science, 2017, , 296-306.	1.0	0
153	Functional-power-aware Partial Gating Method for Low Power Scan-shift. Journal of Semiconductor Technology and Science, 2018, 18, 125-129.	0.1	0
154	ColorWatch: Color-Tactile Interpretation to Improve Color Perception and Accessibility for People with Visual Impairments. , 2020, , .		0
155	Multi-Sensory Interaction for Blind and Visually Impaired People. Electronics (Switzerland), 2021, 10, 3170.	1.8	0