Gaurav Sharma

List of Publications by Year
in descending order

44 papers	3,540 citations	236925 25 h-index	243625 44 g-index
44 all docs	44 docs citations	44 times ranked	3514 citing authors

#	Article	IF	Citations
1	Lossless generalized-LSB data embedding. IEEE Transactions on Image Processing, 2005, 14, 253-266.	9.8	952
2	Critical assessment of automated flow cytometry data analysis techniques. Nature Methods, 2013, 10, 228-238.	19.0	509
3	Digital color imaging. IEEE Transactions on Image Processing, 1997, 6, 901-932.	9.8	353
4	A Survey of Healthcare Internet of Things (HIoT): A Clinical Perspective. IEEE Internet of Things Journal, 2020, 7, 53-71.	8.7	244
5	Lossless watermarking for image authentication: a new framework and an implementation. IEEE Transactions on Image Processing, 2006, 15, 1042-1049.	9.8	236
6	TurboFold II: RNA structural alignment and secondary structure prediction informed by multiple homologs. Nucleic Acids Research, 2017, 45, 11570-11581.	14.5	100
7	SWIFT—scalable clustering for automated identification of rare cell populations in large, high‐dimensional flow cytometry datasets, Part 2: Biological evaluation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 422-433.	1.5	90
8	Show-through cancellation in scans of duplex printed documents. IEEE Transactions on Image Processing, 2001, 10, 736-754.	9.8	89
9	Figures of merit for color scanners. IEEE Transactions on Image Processing, 1997, 6, 990-1001.	9.8	85
10	A Regularized Model-Based Optimization Framework for Pan-Sharpening. IEEE Transactions on Image Processing, 2014, 23, 2596-2608.	9.8	85
11	SWIFT—scalable clustering for automated identification of rare cell populations in large, high‐dimensional flow cytometry datasets, Part 1: Algorithm design. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 408-421.	1.5	85
12	Energy awareness for supercapacitors using Kalman filter state-of-charge tracking. Journal of Power Sources, 2015, 296, 383-391.	7.8	76
13	Hybrid Solar-Wind Energy Harvesting for Embedded Applications: Supercapacitor-Based System Architectures and Design Tradeoffs. IEEE Circuits and Systems Magazine, 2017, 17, 29-63.	2.3	52
14	PARTS: Probabilistic Alignment for RNA joinT Secondary structure prediction. Nucleic Acids Research, 2008, 36, 2406-2417.	14.5	44
15	Optimal nonnegative color scanning filters. IEEE Transactions on Image Processing, 1998, 7, 129-133.	9.8	42
16	Orientation Modulation for Data Hiding in Clustered-Dot Halftone Prints. IEEE Transactions on Image Processing, 2010, 19, 2070-2084.	9.8	42
17	End-to-end color printer calibration by total least squares regression. IEEE Transactions on Image Processing, 1999, 8, 700-716.	9.8	41
18	UR-SolarCap: An Open Source Intelligent Auto-Wakeup Solar Energy Harvesting System for Supercapacitor-Based Energy Buffering. IEEE Access, 2016, 4, 542-557.	4.2	41

#	Article	IF	Citations
19	Deficiency in DNA damage response, a new characteristic of cells infected with latent HIV-1. Cell Cycle, 2017, 16, 968-978.	2.6	41
20	Improving Road Semantic Segmentation Using Generative Adversarial Network. IEEE Access, 2021, 9, 64381-64392.	4.2	40
21	Insertion, Deletion Codes With Feature-Based Embedding: A New Paradigm for Watermark Synchronization With Applications to Speech Watermarking. IEEE Transactions on Information Forensics and Security, 2008, 3, 153-165.	6.9	37
22	Set theoretic estimation in color scanner characterization. Journal of Electronic Imaging, 1996, 5, 479.	0.9	36
23	A Novel Deep Learning Pipeline for Retinal Vessel Detection In Fluorescein Angiography. IEEE Transactions on Image Processing, 2020, 29, 6561-6573.	9.8	36
24	Collusion-Resilient Fingerprinting by Random Pre-Warping. IEEE Signal Processing Letters, 2004, 11, 831-835.	3.6	29
25	Weakly-Supervised Vessel Detection in Ultra-Widefield Fundus Photography via Iterative Multi-Modal Registration and Learning. IEEE Transactions on Medical Imaging, 2021, 40, 2748-2758.	8.9	27
26	A real-world study of wearable sensors in Parkinson's disease. Npj Parkinson's Disease, 2021, 7, 106.	5.3	24
27	An Audio Watermark Designed for Efficient and Robust Resynchronization After Analog Playback. IEEE Transactions on Information Forensics and Security, 2017, 12, 1393-1405.	6.9	19
28	Modeling RNA Secondary Structure with Sequence Comparison and Experimental Mapping Data. Biophysical Journal, 2017, 113, 330-338.	0.5	14
29	Automatic Registration of Wide Area Motion Imagery to Vector Road Maps by Exploiting Vehicle Detections. IEEE Transactions on Image Processing, 2016, 25, 5304-5315.	9.8	10
30	Audiovisual Analysis of Music Performances: Overview of an Emerging Field. IEEE Signal Processing Magazine, 2019, 36, 63-73.	5.6	9
31	SwiftReg cluster registration automatically reduces flow cytometry data variability including batch effects. Communications Biology, 2020, 3, 218.	4.4	9
32	Automated vessel density detection in fluorescein angiography images correlates with vision in proliferative diabetic retinopathy. PLoS ONE, 2020, 15, e0238958.	2.5	8
33	Vehicle Tracking in Wide Area Motion Imagery via Stochastic Progressive Association Across Multiple Frames. IEEE Transactions on Image Processing, 2018, 27, 3644-3656.	9.8	6
34	Dual Modulated QR Codes for Proximal Privacy and Security. IEEE Transactions on Image Processing, 2021, 30, 657-669.	9.8	4
35	Automatic Identification of Upper Extremity Rehabilitation Exercise Type and Dose Using Body-Worn Sensors and Machine Learning: A Pilot Study. Digital Biomarkers, 2021, 5, 158-166.	4.4	4
36	A Hybrid Dehazing Method and its Hardware Implementation for Image Sensors. IEEE Sensors Journal, 2021, 21, 25931-25940.	4.7	4

#	Article	IF	Citations
37	Accelerated parametric chamfer alignment using a parallel, pipelined GPU realization. Journal of Real-Time Image Processing, 2019, 16, 1661-1680.	3.5	3
38	Color Control Functions for Multiprimary Displaysâ€"I: Robustness Analysis and Optimization Formulations. IEEE Transactions on Image Processing, 2020, 29, 1152-1163.	9.8	3
39	Color Control Functions for Multiprimary Displaysâ€"II: Variational Robustness Optimization. IEEE Transactions on Image Processing, 2020, 29, 1164-1176.	9.8	2
40	SigPrep: Open Source Web-Based Prework for Signals and Systems [SP Education]. IEEE Signal Processing Magazine, 2020, 37, 184-191.	5.6	2
41	Geometry of Multiprimary Display Colors I: Gamut and Color Control. IEEE Access, 2021, 9, 96573-96597.	4.2	2
42	Geometry of Multiprimary Display Colors II: Metameric Control Sets and Gamut Tiling Color Control Functions. IEEE Access, 2021, 9, 96912-96929.	4.2	2
43	Online Audio-Visual Source Association for Chamber Music Performances. Transactions of the International Society for Music Information Retrieval, 2019, 2, 29-42.	1.5	2
44	Reviewer Recommendations Using Document Vector Embeddings and a Publisher Database: Implementation and Evaluation. IEEE Access, 2022, 10, 21798-21811.	4.2	1