

# Gaurav Sharma

## List of Publications by Year in descending order

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44  
papers

3,540  
citations

236925

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g-index

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all docs

44  
docs citations

44  
times ranked

3514  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reviewer Recommendations Using Document Vector Embeddings and a Publisher Database: Implementation and Evaluation. IEEE Access, 2022, 10, 21798-21811.	4.2	1
2	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
3	Dual Modulated QR Codes for Proximal Privacy and Security. IEEE Transactions on Image Processing, 2021, 30, 657-669.	9.8	4
4	Geometry of Multiprimary Display Colors I: Gamut and Color Control. IEEE Access, 2021, 9, 96573-96597.	4.2	2
5	Improving Road Semantic Segmentation Using Generative Adversarial Network. IEEE Access, 2021, 9, 64381-64392.	4.2	40
6	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
7	Geometry of Multiprimary Display Colors II: Metameric Control Sets and Gamut Tiling Color Control Functions. IEEE Access, 2021, 9, 96912-96929.	4.2	2
8	A Hybrid Dehazing Method and its Hardware Implementation for Image Sensors. IEEE Sensors Journal, 2021, 21, 25931-25940.	4.7	4
9	A real-world study of wearable sensors in Parkinson's disease. Npj Parkinson's Disease, 2021, 7, 106.	5.3	24
10	Color Control Functions for Multiprimary Displays II: Variational Robustness Optimization. IEEE Transactions on Image Processing, 2020, 29, 1164-1176.	9.8	2
11	Color Control Functions for Multiprimary Displays I: Robustness Analysis and Optimization Formulations. IEEE Transactions on Image Processing, 2020, 29, 1152-1163.	9.8	3
12	A Survey of Healthcare Internet of Things (HIoT): A Clinical Perspective. IEEE Internet of Things Journal, 2020, 7, 53-71.	8.7	244
13	A Novel Deep Learning Pipeline for Retinal Vessel Detection In Fluorescein Angiography. IEEE Transactions on Image Processing, 2020, 29, 6561-6573.	9.8	36
14	SwiftReg cluster registration automatically reduces flow cytometry data variability including batch effects. Communications Biology, 2020, 3, 218.	4.4	9
15	Automated vessel density detection in fluorescein angiography images correlates with vision in proliferative diabetic retinopathy. PLoS ONE, 2020, 15, e0238958.	2.5	8
16	SigPrep: Open Source Web-Based Prewrite for Signals and Systems [SP Education]. IEEE Signal Processing Magazine, 2020, 37, 184-191.	5.6	2
17	Audiovisual Analysis of Music Performances: Overview of an Emerging Field. IEEE Signal Processing Magazine, 2019, 36, 63-73.	5.6	9
18	Accelerated parametric chamfer alignment using a parallel, pipelined GPU realization. Journal of Real-Time Image Processing, 2019, 16, 1661-1680.	3.5	3

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Deficiency in DNA damage response, a new characteristic of cells infected with latent HIV-1. Cell Cycle, 2017, 16, 968-978.	2.6	41
23	Modeling RNA Secondary Structure with Sequence Comparison and Experimental Mapping Data. Biophysical Journal, 2017, 113, 330-338.	0.5	14
24	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
25	TurboFold II: RNA structural alignment and secondary structure prediction informed by multiple homologs. Nucleic Acids Research, 2017, 45, 11570-11581.	14.5	100
26	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
27	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
28	Energy awareness for supercapacitors using Kalman filter state-of-charge tracking. Journal of Power Sources, 2015, 296, 383-391.	7.8	76
29	SWIFTâ€”scalable clustering for automated identification of rare cell populations in large, highâ€”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
30	A Regularized Model-Based Optimization Framework for Pan-Sharpness. IEEE Transactions on Image Processing, 2014, 23, 2596-2608.	9.8	85
31	SWIFTâ€”scalable clustering for automated identification of rare cell populations in large, highâ€”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
32	Critical assessment of automated flow cytometry data analysis techniques. Nature Methods, 2013, 10, 228-238.	19.0	509
33	Orientation Modulation for Data Hiding in Clustered-Dot Halftone Prints. IEEE Transactions on Image Processing, 2010, 19, 2070-2084.	9.8	42
34	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
35	PARTS: Probabilistic Alignment for RNA joint Secondary structure prediction. Nucleic Acids Research, 2008, 36, 2406-2417.	14.5	44
36	Lossless watermarking for image authentication: a new framework and an implementation. IEEE Transactions on Image Processing, 2006, 15, 1042-1049.	9.8	236

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37	Lossless generalized-LSB data embedding. IEEE Transactions on Image Processing, 2005, 14, 253-266.	9.8	952
38	Collusion-Resilient Fingerprinting by Random Pre-Warping. IEEE Signal Processing Letters, 2004, 11, 831-835.	3.6	29
39	Show-through cancellation in scans of duplex printed documents. IEEE Transactions on Image Processing, 2001, 10, 736-754.	9.8	89
40	End-to-end color printer calibration by total least squares regression. IEEE Transactions on Image Processing, 1999, 8, 700-716.	9.8	41
41	Optimal nonnegative color scanning filters. IEEE Transactions on Image Processing, 1998, 7, 129-133.	9.8	42
42	Digital color imaging. IEEE Transactions on Image Processing, 1997, 6, 901-932.	9.8	353
43	Figures of merit for color scanners. IEEE Transactions on Image Processing, 1997, 6, 990-1001.	9.8	85
44	Set theoretic estimation in color scanner characterization. Journal of Electronic Imaging, 1996, 5, 479.	0.9	36