Vivek Boominathan

List of Publications by Year
in descending order

25	780	1040056	1199594
papers	citations	9	12
		h-index	g-index

27	27	27	569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in lensless imaging. Optica, 2022, 9, 1.	9.3	67
2	In vivo lensless microscopy via a phase mask generating diffraction patterns with high-contrast contours. Nature Biomedical Engineering, 2022, 6, 617-628.	22.5	35
3	19.2 A Mechanically Flexible Implantable Neural Interface for Computational Imaging and Optogenetic Stimulation over 5.4Ã—5.4 mm 2 FoV. , 2021, , .		4
4	3D Imaging Using Extreme Dispersion in Optical Metasurfaces. ACS Photonics, 2021, 8, 1421-1429.	6.6	31
5	EDoF-ToF: extended depth of field time-of-flight imaging. Optics Express, 2021, 29, 38540-38556.	3.4	1
6	Bio-FlatScope: a flat, lensless microscope for fluorescence imaging. , 2021, , .		0
7	A Mechanically Flexible, Implantable Neural Interface for Computational Imaging and Optogenetic Stimulation Over 5.4Ã—5.4mm^2 FoV. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1295-1305.	4.0	7
8	SACoD: Sensor Algorithm Co-Design Towards Efficient CNN-powered Intelligent PhlatCam. , 2021, , .		2
9	CANOPIC: Pre-Digital Privacy-Enhancing Encodings for Computer Vision. , 2020, , .		4
10	PhlatCam: Designed Phase-Mask Based Thin Lensless Camera. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1618-1629.	13.9	72
11	FlatNet: Towards Photorealistic Scene Reconstruction from Lensless Measurements. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	33
12	FreeCam3D: Snapshot Structured Light 3D with Freely-Moving Cameras. Lecture Notes in Computer Science, 2020, , 309-325.	1.3	6
13	On-Chip Optical and Analog Processing in 180nm CMOS for Holography. , 2020, , .		0
14	Bioluminescent flashes drive nighttime schooling behavior and synchronized swimming dynamics in flashlight fish. PLoS ONE, 2019, 14, e0219852.	2.5	20
15	PhaseCam3D â€" Learning Phase Masks for Passive Single View Depth Estimation. , 2019, , .		72
16	Towards Photorealistic Reconstruction of Highly Multiplexed Lensless Images. , 2019, , .		20
17	Face Detection and Verification Using Lensless Cameras. IEEE Transactions on Computational Imaging, 2019, 5, 180-194.	4.4	40
18	Single-frame 3D fluorescence microscopy with ultraminiature lensless FlatScope. Science Advances, 2017, 3, e1701548.	10.3	149

#	Article	IF	Citations
19	Flat focus: depth of field analysis for the FlatCam lensless imaging system. , 2017, , .		4
20	Lensless Imaging: A computational renaissance. IEEE Signal Processing Magazine, 2016, 33, 23-35.	5.6	102
21	mobileVision. , 2014, , .		5
22	Improving resolution and depth-of-field of light field cameras using a hybrid imaging system. , 2014, , .		85
23	mobileVision: A Face-mounted, Voice-activated, Non-mydriatic â€œLuckyâ€•Ophthalmoscope. , 2014, , .		1
24	Speaker recognition via sparse representations using orthogonal matching pursuit. , 2012, , .		10
25	Allpass modeling of LP residual for speaker recognition. , 2012, , .		6