Alexander Wong

List of Publications by Year
in descending order

106 papers	9,926 citations	212478 28 h-index	75989 78 g-index
106 all docs	106 docs citations	106 times ranked	19004 citing authors

#	Article	IF	Citations
1	Tobacco smoking and HIV-related immunologic and virologic response among individuals of the Canadian HIV Observational Cohort (CANOC). AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV, 2022, 34, 982-991.	0.6	5
2	TB-Net: A Tailored, Self-Attention Deep Convolutional Neural Network Design for Detection of Tuberculosis Cases From Chest X-Ray Images. Frontiers in Artificial Intelligence, 2022, 5, 827299.	2.0	10
3	Gaps in hepatitis C virus prevention and care for HIV-hepatitis C virus co-infected people who inject drugs in Canada. International Journal of Drug Policy, 2022, 103, 103627.	1.6	6
4	COVID-Net CXR-S: Deep Convolutional Neural Network for Severity Assessment of COVID-19 Cases from Chest X-ray Images. Diagnostics, 2022, 12, 25.	1.3	26
5	Increased CD4â€Š:â€ŠCD8 ratio normalization with implementation of current ART management guidelines. Journal of Antimicrobial Chemotherapy, 2021, 76, 729-737.	1.3	8
6	Quantization in Relative Gradient Angle Domain For Building Polygon Estimation. , 2021, , .		6
7	COVID-Net US: A Tailored, Highly Efficient, Self-attention Deep Convolutional Neural Network Design forÂDetection of COVID-19 Patient Cases from Point-of-Care Ultrasound Imaging. Lecture Notes in Computer Science, 2021, , 191-202.	1.0	0
8	Salvage Therapy with Sofosbuvir/Velpatasvir/Voxilaprevir in DAA-experienced Patients: Results from a Prospective Canadian Registry. Clinical Infectious Diseases, 2021, 72, e799-e805.	2.9	10
9	Estimating an individual-level deprivation index for HIV/HCV coinfected persons in Canada. PLoS ONE, 2021, 16, e0249836.	1.1	2
10	Direct-acting antiviral treatment uptake and sustained virological response outcomes are not affected by alcohol use: AÂCANUHCÂanalysis. Canadian Liver Journal, 2021, 4, 283-291.	0.3	3
11	Seeking shelter: homelessness and COVID-19. Facets, 2021, 6, 925-958.	1.1	18
12	COVID-Net MLSys: Designing COVID-Net for the Clinical Workflow. , 2021, , .		0
13	Fibrosis-Net: A Tailored Deep Convolutional Neural Network Design for Prediction of Pulmonary Fibrosis Progression From Chest CT Images. Frontiers in Artificial Intelligence, 2021, 4, 764047.	2.0	11
14	COVID-Net CT-2: Enhanced Deep Neural Networks for Detection of COVID-19 From Chest CT Images Through Bigger, More Diverse Learning. Frontiers in Medicine, 2021, 8, 729287.	1.2	52
15	Eliminating Structural Barriers: The Impact of Unrestricted Access on Hepatitis C Treatment Uptake Among People Living With Human Immunodeficiency Virus. Clinical Infectious Diseases, 2020, 71, 363-371.	2.9	31
16	COVID-Net: a tailored deep convolutional neural network design for detection of COVID-19 cases from chest X-ray images. Scientific Reports, 2020, 10, 19549.	1.6	1,784
17	The Z-Profile Study: a multicenter, retrospective cohort study toÂassess the real-world use and effectiveness of elbasvir/grazoprevir in Canadian adult patients with chronic hepatitis C. Canadian Liver Journal, 2020, 3, 251-262.	0.3	0
18	COVIDNet-CT: A Tailored Deep Convolutional Neural Network Design for Detection of COVID-19 Cases From Chest CT Images. Frontiers in Medicine, 2020, 7, 608525.	1.2	176

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19	Long-acting cabotegravir and rilpivirine dosed every 2 months in adults with HIV-1 infection (ATLAS-2M), 48-week results: a randomised, multicentre, open-label, phase 3b, non-inferiority study. Lancet, The, 2020, 396, 1994-2005.	6.3	164
20	Radiomics Driven Diffusion Weighted Imaging Sensing Strategies for Zone-Level Prostate Cancer Sensing. Sensors, 2020, 20, 1539.	2.1	12
21	Pharmaceutical, clinical, and resistance information on doravirine, a novel non-nucleoside reverse transcriptase inhibitor for the treatment of HIV-1 infection. Drugs in Context, 2020, 9, 1-11.	1.0	14
22	Daclatasvir and Sofosbuvir with Ribavirin for 24 Weeks in Chronic Hepatitis C Genotype-3-Infected Patients with Cirrhosis: A Phase III Study (ALLY-3C). Antiviral Therapy, 2019, 24, 35-44.	0.6	12
23	GenSynth: a generative synthesis approach to learning generative machines for generate efficient neural networks. Electronics Letters, 2019, 55, 986-989.	0.5	9
24	StressedNets: Efficient feature representations via stress-induced evolutionary synthesis of deep neural networks. Neurocomputing, 2019, 352, 93-105.	3.5	5
25	Towards Computer Vision Powered Color-Nutrient Assessment of PurÃ©ed Food. , 2019, , .		2
26	AttoNets: Compact and Efficient Deep Neural Networks for the Edge via Human-Machine Collaborative Design. , 2019, , .		7
27	Assessing Architectural Similarity in Populations of Deep Neural Networks. , 2019, , .		1
28	Dynamic Representations Toward Efficient Inference on Deep Neural Networks by Decision Gates. , 2019, , .		5
29	Efficacy and Safety of Doravirine/Lamivudine/Tenofovir Disoproxil Fumarate (DOR/3TC/TDF) in Treatment-Naive Adults With HIV-1 and Transmitted Nonnucleoside Reverse Transcriptase Inhibitor Resistance Mutations. Journal of Acquired Immune Deficiency Syndromes (1999), 2019, 82, e47-e49.	0.9	18
30	Variation in hepatitis C virus treatment uptake between Canadian centres in the era of direct-acting antivirals. International Journal of Drug Policy, 2019, 65, 41-49.	1.6	16
31	NetScore: Towards Universal Metrics for Large-Scale Performance Analysis of Deep Neural Networks for Practical On-Device Edge Usage. Lecture Notes in Computer Science, 2019, , 15-26.	1.0	30
32	Hepatitis C virus (HCV) care in Canadian correctional facilities: WhereÂare we and where do we need to be?. Canadian Liver Journal, 2019, 2, 171-183.	0.3	13
33	Real-Time Embedded Motion Detection via Neural Response Mixture Modeling. Journal of Signal Processing Systems, 2018, 90, 931-946.	1.4	4
34	Deep Learning with Darwin: Evolutionary Synthesis of Deep Neural Networks. Neural Processing Letters, 2018, 48, 603-613.	2.0	15
35	Remaining clinical issues in hepatitis C treatment. Canadian Liver Journal, 2018, 1, 66-77.	0.3	1
36	Nature vs. Nurture: The Role of Environmental Resources in Evolutionary Deep Intelligence. , 2018, , .		0

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37	Previous incarceration impacts access to hepatitis C virus (HCV) treatment among HIVâ€HCV coâ€infected patients in Canada. Journal of the International AIDS Society, 2018, 21, e25197.	1.2	18
38	Extensive host immune adaptation in a concentrated North American HIV epidemic. Aids, 2018, 32, 1927-1938.	1.0	16
39	MicronNet: A Highly Compact Deep Convolutional Neural Network Architecture for Real-Time Embedded Traffic Sign Classification. IEEE Access, 2018, 6, 59803-59810.	2.6	40
40	MPCaD: a multi-scale radiomics-driven framework for automated prostate cancer localization and detection. BMC Medical Imaging, 2018, 18, 16.	1.4	43
41	Enhancement of morphological and vascular features in OCT images using a modified Bayesian residual transform. Biomedical Optics Express, 2018, 9, 2394.	1.5	23
42	Disseminated Exophiala dermatitidis causing septic arthritis and osteomyelitis. BMC Infectious Diseases, 2018, 18, 255.	1.3	9
43	Massively parallel digital transcriptional profiling of single cells. Nature Communications, 2017, 8, 14049.	5.8	4,535
44	Disparities in direct acting antivirals uptake in <scp>HIV</scp>â€hepatitis C coâ€infected populations in Canada. Journal of the International AIDS Society, 2017, 20, e25013.	1.2	52
45	Discovery radiomics via evolutionary deep radiomic sequencer discovery for pathologically proven lung cancer detection. Journal of Medical Imaging, 2017, 4, 1.	0.8	12
46	Spectral-spatial fusion model for robust blood pulse waveform extraction in photoplethysmographic imaging. Biomedical Optics Express, 2016, 7, 4874.	1.5	18
47	Image Restoration via Deep-Structured Stochastically Fully-Connected Conditional Random Fields (DSFCRFs) for Very Low-Light Conditions. , 2016, , .		1
48	Time-Frequency Domain Analysis via Pulselets for Non-contact Heart Rate Estimation from Remotely Acquired Photoplethysmograms. , 2016, , .		3
49	Saliency-guided projection geometric correction using a projector-camera system. , 2016, , .		8
50	NeRD: A Neural Response Divergence Approach to Visual Saliency Detection. IEEE Signal Processing Letters, 2016, 23, 1404-1408.	2.1	0
51	Sparse Reconstruction of Compressive Sensing Multi-Spectral Data Using an Inter-Spectral Multi-Layered Conditional Random Field Model. IEEE Access, 2016, 4, 5540-5554.	2.6	4
52	StochasticNet: Forming Deep Neural Networks via Stochastic Connectivity. IEEE Access, 2016, 4, 1915-1924.	2.6	20
53	Haplotyping germline and cancer genomes with high-throughput linked-read sequencing. Nature Biotechnology, 2016, 34, 303-311.	9.4	617
54	Automatic tracking of pupillary dynamics fromin vivofunctional optical coherence tomography images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 306-316.	1.3	0

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55	Bayesian-based deconvolution fluorescence microscopy using dynamically updated nonstationary expectation estimates. Scientific Reports, 2015, 5, 10849.	1.6	13
56	Monte Carlo-based noise compensation in coil intensity corrected endorectal MRI. BMC Medical Imaging, 2015, 15, 43.	1.4	7
57	Automatic Framework for Extraction and Characterization of Wetting Front Propagation Using Tomographic Image Sequences of Water Infiltrated Soils. PLoS ONE, 2015, 10, e0115218.	1.1	3
58	DESIRe: Discontinuous energy seam carving for image retargeting via structural and textural energy functionals. , 2015, , .		1
59	DESIRe: Discontinuous energy seam carving for image retargeting via structural and textural energy functionals. , 2015, , .		2
60	Prostate Cancer Detection via a Quantitative Radiomics-Driven Conditional Random Field Framework. IEEE Access, 2015, 3, 2531-2541.	2.6	32
61	A Deep-Structured Fully Connected Random Field Model for Structured Inference. IEEE Access, 2015, 3, 469-477.	2.6	3
62	Homotopic non-local regularized reconstruction from sparse positron emission tomography measurements. BMC Medical Imaging, 2015, 15, 10.	1.4	2
63	Hyperspectral Image Denoising Using a Spatialâ€“Spectral Monte Carlo Sampling Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3025-3038.	2.3	19
64	A Bayesian Residual Transform for Signal Processing. IEEE Access, 2015, 3, 709-717.	2.6	10
65	Specular Reflectance Suppression in Endoscopic Imagery via Stochastic Bayesian Estimation. Lecture Notes in Computer Science, 2015, , 385-393.	1.0	3
66	A Deep-Structured Conditional Random Field Model for Object Silhouette Tracking. PLoS ONE, 2015, 10, e0133036.	1.1	3
67	Noise-compensated homotopic non-local regularized reconstruction for rapid retinal optical coherence tomography image acquisitions. BMC Medical Imaging, 2014, 14, 37.	1.4	1
68	Fasting and exercise increase plasma cannabinoid levels in THC pre-treated rats: an examination of behavioural consequences. Psychopharmacology, 2014, 231, 3987-3996.	1.5	7
69	Statistical Textural Distinctiveness for Salient Region Detection in Natural Images. , 2013, , .		90
70	Exercise increases plasma THC concentrations in regular cannabis users. Drug and Alcohol Dependence, 2013, 133, 763-767.	1.6	34
71	MSIM: Multistage Illumination Modeling of Dermatological Photographs for Illumination-Corrected Skin Lesion Analysis. IEEE Transactions on Biomedical Engineering, 2013, 60, 1873-1883.	2.5	59
72	Stochastic speckle noise compensation in optical coherence tomography using non-stationary spline-based speckle noise modelling. Biomedical Optics Express, 2013, 4, 1769.	1.5	27

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73	Multi-penalty conditional random field approach to super-resolved reconstruction of optical coherence tomography images. Biomedical Optics Express, 2013, 4, 2032.	1.5	14
74	Tensor total variation approach to optical coherence tomography reconstruction for improved visualization of retinal microvasculature. Biomedical Optics Express, 2012, 3, 160.	1.5	2
75	Enhanced Brain Disposition and Effects of Î”9-Tetrahydrocannabinol in P-Glycoprotein and Breast Cancer Resistance Protein Knockout Mice. PLoS ONE, 2012, 7, e35937.	1.1	57
76	Distinct Neurobehavioural Effects of Cannabidiol in Transmembrane Domain Neuregulin 1 Mutant Mice. PLoS ONE, 2012, 7, e34129.	1.1	80
77	Robust control point detection for aerial synthetic aperture radar via a logarithmic quasi-random scale space framework. , 2011, , .		0
78	Enhanced Seam Carving via Integration of Energy Gradient Functionals. IEEE Signal Processing Letters, 2011, 18, 375-378.	2.1	68
79	Automated detection and cell density assessment of keratocytes in the human corneal stroma from ultrahigh resolution optical coherence tomograms. Biomedical Optics Express, 2011, 2, 2905.	1.5	16
80	Despeckling vs averaging of retinal UHROCT tomograms: advantages and limitations. , 2011, , .		0
81	Automatic Skin Lesion Segmentation via Iterative Stochastic Region Merging. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 929-936.	3.6	104
82	Cannabidiol potentiates Î”9-tetrahydrocannabinol (THC) behavioural effects and alters THC pharmacokinetics during acute and chronic treatment in adolescent rats. Psychopharmacology, 2011, 218, 443-457.	1.5	166
83	Stochastic image denoising based on Markov-chain Monte Carlo sampling. Signal Processing, 2011, 91, 2112-2120.	2.1	123
84	AISIR: Automated inter-sensor/inter-band satellite image registration using robust complex wavelet feature representations. Pattern Recognition Letters, 2010, 31, 1160-1167.	2.6	116
85	Interactive Modeling and Evaluation of Tumor Growth. Journal of Digital Imaging, 2010, 23, 755-768.	1.6	6
86	Enabling scalable spectral clustering for image segmentation. Pattern Recognition, 2010, 43, 4069-4076.	5.1	73
87	General Bayesian estimation for speckle noise reduction in optical coherence tomography retinal imagery. Optics Express, 2010, 18, 8338.	1.7	165
88	Welders are at increased risk for invasive pneumococcal disease. International Journal of Infectious Diseases, 2010, 14, e796-e799.	1.5	52
89	SEC: Stochastic Ensemble Consensus Approach to Unsupervised SAR Sea-Ice Segmentation. , 2009, , .		2
90	Alignment of Confocal Scanning Laser Ophthalmoscopy Photoreceptor Images at Different Polarizations Using Complex Phase Relationships. IEEE Transactions on Biomedical Engineering, 2009, 56, 1831-1837.	2.5	3

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91	Robust Multimodal Registration Using Local Phase-Coherence Representations. Journal of Signal Processing Systems, 2009, 54, 89-100.	1.4	65
92	Fast phase-based registration of multimodal image data. Signal Processing, 2009, 89, 724-737.	2.1	22
93	A systematic approach to feature tracking of lumbar spine vertebrae from fluoroscopic images using complex-valued wavelets. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 607-616.	0.9	2
94	Intra-retinal layer segmentation in optical coherence tomography images. Optics Express, 2009, 17, 23719.	1.7	201
95	Adaptive Monte Carlo Retinex Method for Illumination and Reflectance Separation and Color Image Enhancement. , 2009, , .		10
96	Efficient least squares fusion of MRI and CT images using a phase congruency model. Pattern Recognition Letters, 2008, 29, 173-180.	2.6	35
97	Adaptive bilateral filtering of image signals using local phase characteristics. Signal Processing, 2008, 88, 1615-1619.	2.1	51
98	Automatic registration of inter-band and inter-sensor images using robust complex wavelet feature representations. , 2008, , .		2
99	Adaptive Nonlinear Image Denoising and Restoration Using a Cooperative Bayesian Estimation Approach. , 2008, , .		3
100	Efficient FFT-Accelerated Approach to Invariant Opticalâ€“LIDAR Registration. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3917-3925.	2.7	37
101	An Iterative Approach to Improved Local Phase Coherence Estimation. , 2008, , .		7
102	Improved interactive medical image segmentation using Enhanced Intelligent Scissors (EIS). , 2008, 2008, 3083-6.		23
103	Simultaneous multi-modal registration of multiple images based on multi-dimensional joint phase moment distributions. , 2008, , .		0
104	Phase-adaptive image signal fusion using complex-valued wavelets. , 2008, , .		0
105	ARRSI: Automatic Registration of Remote-Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1483-1493.	2.7	197
106	COVID-Net CXR-2: An Enhanced Deep Convolutional Neural Network Design for Detection of COVID-19 Cases From Chest X-ray Images. Frontiers in Medicine, 0, 9, .	1.2	13