# Alexander Wong

List of Publications by Year
in descending order



| 167 | 4,682 | 304743 | 128289 |
|---|---|---|---|
| papers | citations | 22 h-index | 60 g-index |

| 167 | 167 | 167 | 6022 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | VidAF: A Motion-Robust Model for Atrial Fibrillation Screening From Facial Videos. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1672-1683. | 6.3 | 9 |
| 2 | Computational and Experimental Model to Study Immunobead-Based Assays in Microfluidic Mixing Platforms. Analytical Chemistry, 2022, 94, 2087-2098. | 6.5 | 1 |
| 3 | Automated food intake tracking requires depth-refined semantic segmentation to rectify visual-volume discordance in long-term care homes. Scientific Reports, 2022, 12, 83. | 3.3 | 14 |
| 4 | BCUN: Bayesian Fully Convolutional Neural Network for Hyperspectral Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14. | 6.3 | 10 |
| 5 | TAL: Topography-Aware Multi-Resolution Fusion Learning for Enhanced Building Footprint Extraction. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 4 |
| 6 | Synthetic correlated diffusion imaging hyperintensity delineates clinically significant prostate cancer. Scientific Reports, 2022, 12, 3376. | 3.3 | 4 |
| 7 | Multi-Temporal Landsat-8 Images for Retrieval and Broad Scale Mapping of Soil Copper Concentration Using Empirical Models. Remote Sensing, 2022, 14, 2311. | 4.0 | 5 |
| 8 | A Bayesian Deep Image Prior Downscaling Approach for High-Resolution Soil Moisture Estimation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4571-4582. | 4.9 | 9 |
| 9 | Hallway Gait Monitoring Using Novel Radar Signal Processing and Unsupervised Learning. IEEE Sensors Journal, 2022, 22, 15133-15145. | 4.7 | 13 |
| 10 | Understanding the temporal evolution of COVID-19 research through machine learning and natural language processing. Scientometrics, 2021, 126, 725-739. | 3.0 | 46 |
| 11 | Detecting Pulse Rates From Facial Videos Recorded in Unstable Lighting Conditions: An Adaptive Spatiotemporal Homomorphic Filtering Algorithm. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15. | 4.7 | 11 |
| 12 | OutlierNets: Highly Compact Deep Autoencoder Network Architectures for On-Device Acoustic Anomaly Detection. Sensors, 2021, 21, 4805. | 3.8 | 9 |
| 13 | Deep Neural Network Perception Models and Robust Autonomous Driving Systems: Practical Solutions for Mitigation and Improvement. IEEE Signal Processing Magazine, 2021, 38, 22-30. | 5.6 | 9 |
| 14 | EvoPose2D: Pushing the Boundaries of 2D Human Pose Estimation Using Accelerated Neuroevolution With Weight Transfer. IEEE Access, 2021, 9, 139403-139414. | 4.2 | 22 |
| 15 | POOF: Efficient Goalie Pose Annotation using Optical Flow. , 2021, , . | | 0 |
| 16 | MANet: a Motion-Driven Attention Network for Detecting the Pulse from a Facial Video with Drastic Motions. , 2021, , . | | 2 |
| 17 | Environment Classification for Robotic Leg Prostheses and Exoskeletons Using Deep Convolutional Neural Networks. Frontiers in Neurorobotics, 2021, 15, 730965. | 2.8 | 39 |
| 18 | Generative Adversarial Networks and Conditional Random Fields for Hyperspectral Image Classification. IEEE Transactions on Cybernetics, 2020, 50, 3318-3329. | 9.5 | 108 |

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| 19 | 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. | 3.3 | 1,784 |
| 20 | An Innovative Eigenvector-Based Method for Traffic Light Scheduling. Journal of Advanced Transportation, 2020, 2020, 1-14. | 1.7 | 2 |
| 21 | Learn2Perturb: An End-to-End Feature Perturbation Learning to Improve Adversarial Robustness. , 2020, , . | | 29 |
| 22 | Comparative Analysis of Environment Recognition Systems for Control of Lower-Limb Exoskeletons and Prostheses. , 2020, , . | | 14 |
| 23 | A Deep Learning Approach for Multi-Depth Soil Water Content Prediction in Summer Maize Growth Period. IEEE Access, 2020, 8, 199097-199110. | 4.2 | 19 |
| 24 | ExoNet Database: Wearable Camera Images of Human Locomotion Environments. Frontiers in Robotics and AI, 2020, 7, 562061. | 3.2 | 27 |
| 25 | TimeConvNets: A Deep Time Windowed Convolution Neural Network Design for Real-time Video Facial Expression Recognition. , 2020, , . | | 8 |
| 26 | Exploring the regional disc bulge response of the cervical porcine intervertebral disc under varying loads and posture. Journal of Biomechanics, 2020, 104, 109713. | 2.1 | 3 |
| 27 | Detecting Pulse Wave From Unstable Facial Videos Recorded From Consumer-Level Cameras: A Disturbance-Adaptive Orthogonal Matching Pursuit. IEEE Transactions on Biomedical Engineering, 2020, 67, 3352-3362. | 4.2 | 12 |
| 28 | Nonlocal Band-Weighted Iterative Spectral Mixture Model for Hyperspectral Imagery Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5588-5601. | 6.3 | 3 |
| 29 | EmotionNet Nano: An Efficient Deep Convolutional Neural Network Design for Real-Time Facial Expression Recognition. Frontiers in Artificial Intelligence, 2020, 3, 609673. | 3.4 | 16 |
| 30 | Global chlorophyll-a concentration estimation from moderate resolution imaging spectroradiometer using convolutional neural networks. Journal of Applied Remote Sensing, 2020, 14, . | 1.3 | 12 |
| 31 | A Novel Motion Plane-Based Approach to Vehicle Speed Estimation. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1237-1246. | 8.0 | 19 |
| 32 | SISC: End-to-End Interpretable Discovery Radiomics-Driven Lung Cancer Prediction via Stacked Interpretable Sequencing Cells. IEEE Access, 2019, 7, 145444-145454. | 4.2 | 13 |
| 33 | STAR-Net: Action Recognition using Spatio-Temporal Activation Reprojection. , 2019, , . | | 25 |
| 34 | The Feasibility of Automated Identification of Six Algae Types Using Feed-Forward Neural Networks and Fluorescence-Based Spectral-Morphological Features. IEEE Access, 2019, 7, 7041-7053. | 4.2 | 22 |
| 35 | GolfDB: A Video Database for Golf Swing Sequencing. , 2019, , . | | 36 |
| 36 | Estimation Of Iron Concentration In Soil Of A Mining Area From Uav-Based Hyperspectral Imagery. , 2019, , . | | 5 |

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| 37 | Prototyping the Automated Food Imaging and Nutrient Intake Tracking System: Modified Participatory Iterative Design Sprint. JMIR Human Factors, 2019, 6, e13017. | 2.0 | 11 |
| 38 | ST-IRGS: A Region-Based Self-Training Algorithm Applied to Hyperspectral Image Classification and Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3-16. | 6.3 | 47 |
| 39 | Extracting aerobic system dynamics during unsupervised activities of daily living using wearable sensor machine learning models. Journal of Applied Physiology, 2018, 124, 473-481. | 2.5 | 24 |
| 40 | Deep Learning with Darwin: Evolutionary Synthesis of Deep Neural Networks. Neural Processing Letters, 2018, 48, 603-613. | 3.2 | 15 |
| 41 | Deep Learning-Driven Depth from Defocus via Active Multispectral Quasi-Random Projections with Complex Subpatterns. , 2018, , . | | 0 |
| 42 | MPCaD: a multi-scale radiomics-driven framework for automated prostate cancer localization and detection. BMC Medical Imaging, 2018, 18, 16. | 2.7 | 43 |
| 43 | 63-3: Real-time Spatial-based Projector Resolution Enhancement. Digest of Technical Papers SID International Symposium, 2018, 49, 831-834. | 0.3 | 2 |
| 44 | Quantification of cyanobacterial cells via a novel imaging-driven technique with an integrated fluorescence signature. Scientific Reports, 2018, 8, 9055. | 3.3 | 20 |
| 45 | Enhancement of morphological and vascular features in OCT images using a modified Bayesian residual transform. Biomedical Optics Express, 2018, 9, 2394. | 2.9 | 23 |
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| 47 | Unsupervised Bayesian Classification of a Hyperspectral Image Based on the Spectral Mixture Model and Markov Random Field. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3325-3337. | 4.9 | 17 |
| 48 | Simultaneous Projector-Camera Self-Calibration for Three-Dimensional Reconstruction and Projection Mapping. IEEE Transactions on Computational Imaging, 2017, 3, 74-83. | 4.4 | 33 |
| 49 | Deep Randomly-Connected Conditional Random Fields For Image Segmentation. IEEE Access, 2017, 5, 366-378. | 4.2 | 5 |
| 50 | An Enhanced Probabilistic Posterior Sampling Approach for Synthesizing SAR Imagery With Sea Ice and Oil Spills. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 188-192. | 3.1 | 4 |
| 51 | Radiomics-based Prognosis Analysis for Non-Small Cell Lung Cancer. Scientific Reports, 2017, 7, 46349. | 3.3 | 196 |
| 52 | Non-contact hemodynamic imaging reveals the jugular venous pulse waveform. Scientific Reports, 2017, 7, 40150. | 3.3 | 53 |
| 53 | A Novel Bayesian Spatialâ€“Temporal Random Field Model Applied to Cloud Detection From Remotely Sensed Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4913-4924. | 6.3 | 22 |
| 54 | Weakly Supervised Classification of Remotely Sensed Imagery Using Label Constraint and Edge Penalty. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1424-1436. | 6.3 | 22 |

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| 55 | Compensated Row-Column Ultrasound Imaging System Using Multilayered Edge Guided Stochastically Fully Connected Random Fields. Scientific Reports, 2017, 7, 10644. | 3.3 | 8 |
| 56 | Fully automated segmentation of prostate whole gland and transition zone in diffusion-weighted MRI using convolutional neural networks. Journal of Medical Imaging, 2017, 4, 1. | 1.5 | 57 |
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| 61 | TIGGER: A Texture-Illumination Guided Global Energy Response Model for Illumination Robust Object Saliency. , 2016, , . | | 0 |
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| 65 | Sparse reconstruction of compressive sensing MRI using cross-domain stochastically fully connected conditional random fields. BMC Medical Imaging, 2016, 16, 51. | 2.7 | 2 |
| 66 | Auto-calibration of a projector-camera stereo system for projection mapping. Journal of the Society for Information Display, 2016, 24, 510-520. | 2.1 | 4 |
| 67 | NeRD: A Neural Response Divergence Approach to Visual Saliency Detection. IEEE Signal Processing Letters, 2016, 23, 1404-1408. | 3.6 | 0 |
| 68 | Numerical Demultiplexing of Color Image Sensor Measurements via Non-linear Random Forest Modeling. Scientific Reports, 2016, 6, 28665. | 3.3 | 8 |
| 69 | StochasticNet: Forming Deep Neural Networks via Stochastic Connectivity. IEEE Access, 2016, 4, 1915-1924. | 4.2 | 20 |
| 70 | Intrinsic Representation of Hyperspectral Imagery for Unsupervised Feature Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1118-1130. | 6.3 | 22 |
| 71 | Extraction of Endmembers From Hyperspectral Images Using A Weighted Fuzzy Purified-Means Clustering Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 695-707. | 4.9 | 12 |
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| 76 | Monte Carlo-based noise compensation in coil intensity corrected endorectal MRI. BMC Medical Imaging, 2015, 15, 43. | 2.7 | 7 |
| 77 | 35.1: Distinguished Paper : Auto-Calibration for Screen Correction and Point Cloud Generation. Digest of Technical Papers SID International Symposium, 2015, 46, 507-510. | 0.3 | 1 |
| 78 | Stochastic color image segmentation using spatial constraints. , 2015, , . | | 1 |
| 79 | Scalable multi-neighborhood learning for convolutional networks. , 2015, , . | | 0 |
| 80 | Automated prostate cancer detection via comprehensive multi-parametric magnetic resonance imaging texture feature models. BMC Medical Imaging, 2015, 15, 27. | 2.7 | 140 |
| 81 | Oil spill candidate detection from SAR imagery using a thresholding-guided stochastic fully-connected conditional random field model. , 2015, , . | | 15 |
| 82 | Feature Extraction for Hyperspectral Imagery via Ensemble Localized Manifold Learning. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2486-2490. | 3.1 | 12 |
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| 93 | A Deep-Structured Conditional Random Field Model for Object Silhouette Tracking. PLoS ONE, 2015, 10, e0133036. | 2.5 | 3 |
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| 102 | Grid Seams: A Fast Superpixel Algorithm for Real-Time Applications. , 2014, , . | | 9 |
| 103 | K-P-Means: A Clustering Algorithm of K â€œPurifiedâ€•Means for Hyperspectral Endmember Estimation. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1787-1791. | 3.1 | 15 |
| 104 | A KPCA texture feature model for efficient segmentation of RADARSAT-2 SAR sea ice imagery. International Journal of Remote Sensing, 2014, 35, 5053-5072. | 2.9 | 7 |
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| 106 | ETVOS: An Enhanced Total Variation Optimization Segmentation Approach for SAR Sea-Ice Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 925-934. | 6.3 | 20 |
| 107 | Sparse Reconstruction of Breast MRI Using Homotopic <formula formulatype="inline"><tex Notation="TeX">$L_0$</tex></formula> Minimization in a Regional Sparsified Domain. IEEE Transactions on Biomedical Engineering, 2013, 60, 743-752. | 4.2 | 28 |
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| 128 | Quasi-Monte Carlo Estimation Approach for Denoising MRI Data Based on Regional Statistics. IEEE Transactions on Biomedical Engineering, 2011, 58, 1076-1083. | 4.2 | 19 |
| 129 | Automatic Skin Lesion Segmentation via Iterative Stochastic Region Merging. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 929-936. | 3.2 | 104 |
| 130 | Fisherâ€“Tippett Region-Merging Approach to Transrectal Ultrasound Prostate Lesion Segmentation. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 900-907. | 3.2 | 6 |
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| 132 | Multi-scale 3D representation via volumetric quasi-random scale space. , 2011, , . | | 0 |
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| 142 | Quasi-Random Scale Space Approach to Robust Keypoint Extraction in High-Noise Environments. , 2010, , . | | 1 |
| 143 | General Bayesian estimation for speckle noise reduction in optical coherence tomography retinal imagery. Optics Express, 2010, 18, 8338. | 3.4 | 165 |
| 144 | Extended Knowledge-Based Reasoning Approach to Spectrum Sensing for Cognitive Radio. IEEE Transactions on Mobile Computing, 2010, 9, 465-478. | 5.8 | 33 |

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| 145 | Spectral variation constrained power spectral density estimation for wideband spectrum sensing. , 2010, , . | | 0 |
| 146 | Prioritized Spectrum Sensing in Cognitive Radio Based on Spatiotemporal Statistical Fusion. , 2009, , . | | 6 |
| 147 | JEDI: Adaptive Stochastic Estimation for Joint Enhancement and Despeckling of Images for SAR. , 2009, , . | | 2 |
| 148 | SEC: Stochastic Ensemble Consensus Approach to Unsupervised SAR Sea-Ice Segmentation. , 2009, , . | | 2 |
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| 151 | Stochastic Channel Prioritization for Spectrum Sensing in Cooperative Cognitive Radio. , 2009, , . | | 5 |
| 152 | Adaptive Monte Carlo Retinex Method for Illumination and Reflectance Separation and Color Image Enhancement. , 2009, , . | | 10 |
| 153 | IceSynth: An Image Synthesis System for Sea-Ice Segmentation Evaluation. , 2009, , . | | 3 |
| 154 | Intervertebral Disc Segmentation and Volumetric Reconstruction From Peripheral Quantitative Computed Tomography Imaging. IEEE Transactions on Biomedical Engineering, 2009, 56, 2748-2751. | 4.2 | 15 |
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| 158 | A perceptually adaptive approach to image denoising using anisotropic non-local means. , 2008, , . | | 13 |
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| 160 | Efficient FFT-Accelerated Approach to Invariant Opticalâ€“LIDAR Registration. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3917-3925. | 6.3 | 37 |
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| 162 | An Iterative Approach to Improved Local Phase Coherence Estimation. , 2008, , . | | 7 |

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| 163 | An adaptive Monte Carlo approach to nonlinear image denoising. , 2008, , . | | 3 |
| 164 | Efficient nonlocal-means denoising using the SVD. , 2008, , . | | 86 |
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| 166 | Phase-adaptive image signal fusion using complex-valued wavelets. , 2008, , . | | 0 |
| 167 | A nonlocal-means approach to exemplar-based inpainting. , 2008, , . | | 122 |