# Tat-Jun Chin

## List of Publications by Year
## in descending order

| | | | |
|---|---|---|---|
| 69 | 2,014 | 394421 | 395702 |
| papers | citations | 19 | 33 |
| | | h-index | g-index |
| 69 | 69 | 69 | 1641 |
| all docs | docs citations | times ranked | citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Visual localization under appearance change: filtering approaches. Neural Computing and Applications, 2021, 33, 7325-7338. | 5.6 | 2 |
| 2 | HM$^4$: Hidden Markov Model With Memory Management for Visual Place Recognition. IEEE Robotics and Automation Letters, 2021, 6, 167-174. | 5.1 | 2 |
| 3 | Deterministic Approximate Methods for Maximum Consensus Robust Fitting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 842-857. | 13.9 | 20 |
| 4 | Quantum Robust Fitting. Lecture Notes in Computer Science, 2021, , 485-499. | 1.3 | 1 |
| 5 | Spot the GEO Satellites: From Dataset to Kelvins SpotGEO Challenge. , 2021, , . | | 3 |
| 6 | Learning to Predict Repeatability of Interest Points. , 2021, , . | | 2 |
| 7 | Rotation Coordinate Descent for Fast Globally Optimal Rotation Averaging. , 2021, , . | | 4 |
| 8 | Spatiotemporal Registration for Event-based Visual Odometry. , 2021, , . | | 17 |
| 9 | A Chaos Theory Approach to Understand Neural Network Optimization. , 2021, , . | | 0 |
| 10 | Quantum Annealing Formulation for Binary Neural Networks. , 2021, , . | | 6 |
| 11 | Accelerated Guided Sampling for Multistructure Model Fitting. IEEE Transactions on Cybernetics, 2020, 50, 4530-4543. | 9.5 | 5 |
| 12 | Robust Fitting in Computer Vision: Easy or Hard?. International Journal of Computer Vision, 2020, 128, 575-587. | 15.6 | 20 |
| 13 | SPRINT: Subgraph Place Recognition for INtelligent Transportation. , 2020, , . | | 1 |
| 14 | Topological Sweep for Multi-Target Detection of Geostationary Space Objects. IEEE Transactions on Signal Processing, 2020, 68, 5166-5177. | 5.3 | 15 |
| 15 | Globally Optimal Contrast Maximisation for Event-Based Motion Estimation. , 2020, , . | | 31 |
| 16 | NeuRoRA: Neural Robust Rotation Averaging. Lecture Notes in Computer Science, 2020, , 137-154. | 1.3 | 21 |
| 17 | Monocular Rotational Odometry with Incremental Rotation Averaging and Loop Closure. , 2020, , . | | 7 |
| 18 | Rotation Averaging with the Chordal Distance: Global Minimizers and Strong Duality. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 43, 1-1. | 13.9 | 15 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Visual SLAM: Why Bundle Adjust?. , 2019, , . | | 23 |
| 20 | Robust foreground segmentation and image registration for optical detection of GEO objects. Advances in Space Research, 2019, 64, 733-746. | 2.6 | 16 |
| 21 | Scalable Place Recognition Under Appearance Change for Autonomous Driving. , 2019, , . | | 42 |
| 22 | Satellite Pose Estimation with Deep Landmark Regression and Nonlinear Pose Refinement. , 2019, , . | | 69 |
| 23 | Practical optimal registration of terrestrial LiDAR scan pairs. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 147, 118-131. | 11.1 | 48 |
| 24 | A comprehensive genomic history of extinct and living elephants. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2566-E2574. | 7.1 | 142 |
| 25 | Guaranteed Outlier Removal for Point Cloud Registration with Correspondences. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2868-2882. | 13.9 | 107 |
| 26 | Rotation Averaging and Strong Duality. , 2018, , . | | 55 |
| 27 | Practical Motion Segmentation for Urban Street View Scenes. , 2018, , . | | 6 |
| 28 | Coresets for Triangulation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2095-2108. | 13.9 | 7 |
| 29 | Deterministic Consensus Maximization with Biconvex Programming. Lecture Notes in Computer Science, 2018, , 699-714. | 1.3 | 20 |
| 30 | Robust Fitting in Computer Vision: Easy or Hard?. Lecture Notes in Computer Science, 2018, , 715-730. | 1.3 | 26 |
| 31 | The Maximum Consensus Problem: Recent Algorithmic Advances. Synthesis Lectures on Computer Vision, 2017, 7, 1-194. | 0.6 | 40 |
| 32 | Motion Segmentation Via a Sparsity Constraint. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 973-983. | 8.0 | 36 |
| 33 | An Exact Penalty Method for Locally Convergent Maximum Consensus. , 2017, , . | | 27 |
| 34 | A branch-and-bound algorithm for checkerboard extraction in camera-laser calibration. , 2017, , . | | 4 |
| 35 | RATSAC - Random Tree Sampling for Maximum Consensus Estimation. , 2017, , . | | 4 |
| 36 | Conformal Surface Alignment with Optimal Möbius Search. , 2016, , . | | 6 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | A Consensus-Based Framework for Distributed Bundle Adjustment. , 2016, , . | | 39 |
| 38 | Efficient Point Process Inference for Large-Scale Object Detection. , 2016, , . | | 24 |
| 39 | Guaranteed Outlier Removal with Mixed Integer Linear Programs. , 2016, , . | | 30 |
| 40 | Fast Rotation Search with Stereographic Projections for 3D Registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2227-2240. | 13.9 | 43 |
| 41 | Efficient globally optimal consensus maximisation with tree search. , 2015, , . | | 45 |
| 42 | Guaranteed Outlier Removal for Rotation Search. , 2015, , . | | 18 |
| 43 | Smooth Globally Warp Locally: Video Stabilization Using Homography Fields. , 2015, , . | | 5 |
| 44 | High Breakdown Bundle Adjustment. , 2015, , . | | 3 |
| 45 | Fast Rotation Search with Stereographic Projections for 3D Registration. , 2014, , . | | 39 |
| 46 | The Random Cluster Model for Robust Geometric Fitting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1658-1671. | 13.9 | 95 |
| 47 | Visual tracking via weakly supervised learning from multiple imperfect oracles. Pattern Recognition, 2014, 47, 1395-1410. | 8.1 | 115 |
| 48 | An Adversarial Optimization Approach to Efficient Outlier Removal. Journal of Mathematical Imaging and Vision, 2014, 48, 451-466. | 1.3 | 8 |
| 49 | Sampling Minimal Subsets with Large Spans for Robust Estimation. International Journal of Computer Vision, 2014, 106, 93-112. | 15.6 | 26 |
| 50 | Interacting Geometric Priors For Robust Multimodel Fitting. IEEE Transactions on Image Processing, 2014, 23, 4601-4610. | 9.8 | 42 |
| 51 | A Multiple Hypothesis Tracker for Multitarget Tracking With Multiple Simultaneous Measurements. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 448-460. | 10.8 | 77 |
| 52 | Point Correspondence Validation under Unknown Radial Distortion. , 2013, , . | | 0 |
| 53 | A simultaneous sample-and-filter strategy for robust multi-structure model fitting. Computer Vision and Image Understanding, 2013, 117, 1755-1769. | 4.7 | 14 |
| 54 | Mode seeking over permutations for rapid geometric model fitting. Pattern Recognition, 2013, 46, 257-271. | 8.1 | 17 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | Adaptive human silhouette reconstruction based on the exploration of temporal information. , 2012, , . | | 1 |
| 56 | The Random Cluster Model for robust geometric fitting. , 2012, , . | | 2 |
| 57 | Accelerated Hypothesis Generation for Multistructure Data via Preference Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 625-638. | 13.9 | 90 |
| 58 | Simultaneously Fitting and Segmenting Multiple-Structure Data with Outliers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1177-1192. | 13.9 | 94 |
| 59 | Boosting histograms of descriptor distances for scalable multiclass specific scene recognition. Image and Vision Computing, 2011, 29, 241-250. | 4.5 | 8 |
| 60 | Dynamic and hierarchical multi-structure geometric model fitting. , 2011, , . | | 95 |
| 61 | Multi-structure model selection via kernel optimisation. , 2010, , . | | 16 |
| 62 | Visual localization and segmentation based on foreground/background modeling. , 2010, , . | | 1 |
| 63 | Retrieving 3D CAD models using 2D images with optimized weights. , 2010, , . | | 7 |
| 64 | Keypoint induced distance profiles for visual recognition. , 2009, , . | | 1 |
| 65 | Mobile phone-based mixed reality: the Snap2Play game. Visual Computer, 2009, 25, 25-37. | 3.5 | 2 |
| 66 | Robust fitting of multiple structures: The statistical learning approach. , 2009, , . | | 30 |
| 67 | Keypoint induced distance profiles for visual recognition. , 2009, , . | | 0 |
| 68 | Out-of-Sample Extrapolation of Learned Manifolds. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 1547-1556. | 13.9 | 29 |
| 69 | Incremental Kernel Principal Component Analysis. IEEE Transactions on Image Processing, 2007, 16, 1662-1674. | 9.8 | 148 |