# Allen Tannenbaum

## List of Publications by Citations

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|---|---|---|---|
| 187 papers | 5,834 citations | 39 h-index | 73 g-index |
| 207 ext. papers | 6,886 ext. citations | 4 avg, IF | 5.75 L-index |

| # | Paper | IF | Citations |
|---|-------|----|-----------|
| 187 | Localizing region-based active contours. *IEEE Transactions on Image Processing*, **2008**, 17, 2029-39 | 8.7 | 809 |
| 186 | Conformal curvature flows: From phase transitions to active vision. *Archive for Rational Mechanics and Analysis*, **1996**, 134, 275-301 | 2.3 | 299 |
| 185 | A lifting technique for linear periodic systems with applications to sampled-data control. *Systems and Control Letters*, **1991**, 17, 79-88 | 2.4 | 252 |
| 184 | Affine invariant scale-space. *International Journal of Computer Vision*, **1993**, 11, 25-44 | 10.6 | 229 |
| 183 | Image segmentation using active contours driven by the Bhattacharyya gradient flow. *IEEE Transactions on Image Processing*, **2007**, 16, 2787-801 | 8.7 | 210 |
| 182 | Optimal Mass Transport for Registration and Warping. *International Journal of Computer Vision*, **2004**, 60, 225-240 | 10.6 | 210 |
| 181 | Hamilton-Jacobi Skeletons. *International Journal of Computer Vision*, **2002**, 48, 215-231 | 10.6 | 193 |
| 180 | Perivascular spaces in the brain: anatomy, physiology and pathology. *Nature Reviews Neurology*, **2020**, 16, 137-153 | 15 | 161 |
| 179 | Flux driven automatic centerline extraction. *Medical Image Analysis*, **2005**, 9, 209-21 | 15.4 | 139 |
| 178 | Differential and Numerically Invariant Signature Curves Applied to Object Recognition. *International Journal of Computer Vision*, **1998**, 26, 107-135 | 10.6 | 130 |
| 177 | Tracking deforming objects using particle filtering for geometric active contours. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2007**, 29, 1470-5 | 13.3 | 122 |
| 176 | On the evolution of curves via a function of curvature. I. The classical case. *Journal of Mathematical Analysis and Applications*, **1992**, 163, 438-458 | 1.1 | 110 |
| 175 | Minimizing Flows for the Monge--Kantorovich Problem. *SIAM Journal on Mathematical Analysis*, **2003**, 35, 61-97 | 1.7 | 99 |
| 174 | Feedback stabilization of linear dynamical plants with uncertainty in the gain factor. *International Journal of Control*, **1980**, 32, 1-16 | 1.5 | 90 |
| 173 | Anterior cruciate ligament reconstruction in the skeletally immature: an anatomical study utilizing 3-dimensional magnetic resonance imaging reconstructions. *Journal of Pediatric Orthopaedics*, **2009**, 29, 124-9 | 2.4 | 83 |
| 172 | Blind deconvolution of medical ultrasound images: a parametric inverse filtering approach. *IEEE Transactions on Image Processing*, **2007**, 16, 3005-19 | 8.7 | 82 |
| 171 | A framework for image segmentation using shape models and kernel space shape priors. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2008**, 30, 1385-99 | 13.3 | 81 |

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| 152 | Texture mapping via optimal mass transport. *IEEE Transactions on Visualization and Computer Graphics*, **2010**, 16, 419-33 | 4 | 40 |
| 151 | On the affine heat equation for non-convex curves. *Journal of the American Mathematical Society*, **1998**, 11, 601-634 | 1.6 | 40 |
| 150 | Frequency domain analysis and robust control design for an ideal flexible beam. *Automatica*, **1991**, 27, 947-961 | 5.7 | 40 |
| 149 | A Skew Toeplitz Approach to the $H^\infty$ Optimal Control of Multivariable Distributed Systems. *SIAM Journal on Control and Optimization*, **1990**, 28, 653-670 | 1.9 | 39 |
| 148 | AN EFFICIENT NUMERICAL METHOD FOR THE SOLUTION OF THE L(2) OPTIMAL MASS TRANSFER PROBLEM. *SIAM Journal of Scientific Computing*, **2010**, 32, 197-211 | 2.6 | 38 |
| 147 | Modified Nevanlinna-Pick interpolation and feedback stabilization of linear plants with uncertainty in the gain factor. *International Journal of Control*, **1982**, 36, 331-336 | 1.5 | 38 |
| 146 | Flattening maps for the visualization of multibranched vessels. *IEEE Transactions on Medical Imaging*, **2005**, 24, 191-8 | 11.7 | 37 |
| 145 | Single nucleotide RNA choreography. *Nucleic Acids Research*, **2006**, 34, 1481-91 | 20.1 | 37 |
| 144 | An image morphing technique based on optimal mass preserving mapping. *IEEE Transactions on Image Processing*, **2007**, 16, 1481-95 | 8.7 | 36 |
| 143 | Shapes, shocks and wiggles. *Image and Vision Computing*, **1999**, 17, 365-373 | 3.7 | 36 |
| 142 | On the Nehari problem for a certain class of L∞ functions appearing in control theory. *Journal of Functional Analysis*, **1987**, 74, 146-159 | 1.4 | 35 |
| 141 | A statistically based flow for image segmentation. *Medical Image Analysis*, **2004**, 8, 267-74 | 15.4 | 33 |
| 140 | A spectral commutant lifting theorem. *Transactions of the American Mathematical Society*, **1991**, 325, 741-763 | 1 | 31 |
| 139 | Interactive medical image segmentation using PDE control of active contours. *IEEE Transactions on Medical Imaging*, **2013**, 32, 2127-39 | 11.7 | 29 |
| 138 | Dynamic Active Contours for Visual Tracking. *IEEE Transactions on Automatic Control*, **2006**, 51, 562-579 | 5.9 | 29 |
| 137 | Families of curves with nodes on K3 surfaces. *Mathematische Annalen*, **1982**, 260, 239-253 | 1 | 29 |
| 136 | Automatic segmentation of the left atrium from MR images via variational region growing with a moments-based shape prior. *IEEE Transactions on Image Processing*, **2013**, 22, 5111-22 | 8.7 | 28 |
| 135 | Abstract model and controller design for an unstable aircraft. *Journal of Guidance, Control, and Dynamics*, **1992**, 15, 498-508 | 2.1 | 28 |

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| 134 | On the Sensitivity Minimization Problem for Linear Time-Varying Periodic Systems. *SIAM Journal on Control and Optimization*, **1986**, 24, 1076-1085 | 1.9 | 28 |
| 133 | Vision-Based Range Regulation of a Leader-Follower Formation. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 442-448 | 4.8 | 27 |
| 132 | Robust 3D Pose Estimation and Efficient 2D Region-Based Segmentation from a 3D Shape Prior. *Lecture Notes in Computer Science*, **2008**, 169-182 | 0.9 | 27 |
| 131 | Weighted sensitivity minimization: General plants in H∞ and rational weights. *Linear Algebra and Its Applications*, **1988**, 109, 71-90 | 0.9 | 26 |
| 130 | Differential Invariant Signatures and Flows in Computer Vision: A Symmetry Group Approach. *Computational Imaging and Vision*, **1994**, 255-306 | | 25 |
| 129 | Deform PF-MT: particle filter with mode tracker for tracking nonaffine contour deformations. *IEEE Transactions on Image Processing*, **2010**, 19, 841-57 | 8.7 | 24 |
| 128 | Statistical analysis of RNA backbone. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2006**, 3, 33-46 | 3 | 24 |
| 127 | On the Four Block Problem, I. *Operator Theory: Advances and Applications*, **1988**, 93-112 | 0.4 | 24 |
| 126 | Finsler tractography for white matter connectivity analysis of the cingulum bundle **2007**, 10, 36-43 | | 24 |
| 125 | Sparse texture active contour. *IEEE Transactions on Image Processing*, **2013**, 22, 3866-78 | 8.7 | 22 |
| 124 | Tubular surface segmentation for extracting anatomical structures from medical imagery. *IEEE Transactions on Medical Imaging*, **2010**, 29, 1945-58 | 11.7 | 22 |
| 123 | Affine Invariant Detection: Edge Maps, Anisotropic Diffusion, and Active Contours. *Acta Applicandae Mathematicae*, **1999**, 59, 45-77 | 1.1 | 22 |
| 122 | Automated skin segmentation in ultrasonic evaluation of skin toxicity in breast cancer radiotherapy. *Ultrasound in Medicine and Biology*, **2013**, 39, 2166-75 | 3.5 | 21 |
| 121 | Mixed-sensitivity optimization for a class of unstable infinite-dimensional systems. *Linear Algebra and Its Applications*, **1993**, 178, 43-83 | 0.9 | 20 |
| 120 | Optimal transport for Gaussian mixture models. *IEEE Access*, **2018**, 7, 6269-6278 | 3.5 | 20 |
| 119 | Automatic delineation of the myocardial wall from CT images via shape segmentation and variational region growing. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 2887-95 | 5 | 18 |
| 118 | A nonrigid kernel-based framework for 2D-3D pose estimation and 2D image segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2011**, 33, 1098-115 | 13.3 | 18 |
| 117 | A Geometric Approach to Joint 2D Region-Based Segmentation and 3D Pose Estimation Using a 3D Shape Prior. *SIAM Journal on Imaging Sciences*, **2010**, 3, 110-132 | 1.9 | 18 |

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| 116 | Conformal Geometry and Brain Flattening. *Lecture Notes in Computer Science*, **1999**, 271-278 | 0.9 | 18 |
| 115 | Multi-Object Tracking Through Clutter Using Graph Cuts **2007**, | | 17 |
| 114 | Weighted Optimization Theory for Nonlinear Systems. *SIAM Journal on Control and Optimization*, **1989**, 27, 842-860 | 1.9 | 17 |
| 113 | Glymphatic Cerebrospinal Fluid and Solute Transport Quantified by MRI and PET Imaging. *Neuroscience*, **2021**, 474, 63-79 | 3.9 | 17 |
| 112 | The Structured Singular Value for Linear Input/Output Operators. *SIAM Journal on Control and Optimization*, **1996**, 34, 1392-1404 | 1.9 | 16 |
| 111 | Multiscale 3D shape representation and segmentation with applications to hippocampal/caudate extraction from brain MRI. *Medical Image Analysis*, **2012**, 16, 374-85 | 15.4 | 15 |
| 110 | Optimal-mass-transfer-based estimation of glymphatic transport in living brain. *Proceedings of SPIE*, **2015**, 9413, | 1.7 | 14 |
| 109 | Non-rigid 2D-3D pose estimation and 2D image segmentation **2009**, | | 14 |
| 108 | Knowledge-based 3D segmentation and reconstruction of coronary arteries using CT images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2004**, 2004, 1664-6 | | 14 |
| 107 | Sensitivity minimization for arbitrary SISO distributed plants. *Systems and Control Letters*, **1987**, 8, 189-195 | 5.4 | 14 |
| 106 | Vector-Valued Optimal Mass Transport. *SIAM Journal on Applied Mathematics*, **2018**, 78, 1682-1696 | 1.8 | 13 |
| 105 | Particle Filters and Occlusion Handling for Rigid 2D-3D Pose Tracking. *Computer Vision and Image Understanding*, **2013**, 117, 922-933 | 4.3 | 13 |
| 104 | Geometric observers for dynamically evolving curves. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2008**, 30, 1093-108 | 13.3 | 13 |
| 103 | On the structure of suboptimal H∞ controllers in the sensitivity minimization problem for distributed stable plants. *Automatica*, **1991**, 27, 293-305 | 5.7 | 12 |
| 102 | GlymphVIS: Visualizing Glymphatic Transport Pathways Using Regularized Optimal Transport. *Lecture Notes in Computer Science*, **2018**, 11070, 844-852 | 0.9 | 12 |
| 101 | A Shape-Based Approach to Robust Image Segmentation. *Lecture Notes in Computer Science*, **2006**, 173-183 | | 12 |
| 100 | Signals and control aspects of optimal mass transport and the Boltzmann entropy **2010**, | | 11 |
| 99 | On the multivariable gain margin problem. *Automatica*, **1986**, 22, 381-383 | 5.7 | 11 |

| 98 | Non-distorting Flattening for Virtual Colonoscopy. *Lecture Notes in Computer Science*, **2000**, 358-366 | 0.9 | 11 |
| 97 | The glymphatic system and its role in cerebral homeostasis. *Journal of Applied Physiology*, **2020**, 129, 1330-1340 | 3.7 | 11 |
| 96 | Shape-driven 3D segmentation using spherical wavelets. *Lecture Notes in Computer Science*, **2006**, 9, 66-74 | 0.9 | 10 |
| 95 | An Efficient Algorithm for Matrix-Valued and Vector-Valued Optimal Mass Transport. *Journal of Scientific Computing*, **2018**, 77, 79-100 | 2.3 | 9 |
| 94 | Area-Preserving Mappings for the Visualization of Medical Structures. *Lecture Notes in Computer Science*, **2003**, 277-284 | 0.9 | 9 |
| 93 | On decoupling the H∞-optimal sensitivity problem for products of plants. *Systems and Control Letters*, **1986**, 7, 239-245 | 2.4 | 9 |
| 92 | Gain optimization for distributed plants. *Systems and Control Letters*, **1986**, 6, 295-301 | 2.4 | 9 |
| 91 | A complete system for automatic extraction of left ventricular myocardium from CT images using shape segmentation and contour evolution. *IEEE Transactions on Image Processing*, **2014**, 23, 1340-51 | 8.7 | 8 |
| 90 | A new distribution metric for image segmentation **2008**, | | 8 |
| 89 | On the parametrization of the suboptimal solutions in generalized interpolation. *Linear Algebra and Its Applications*, **1989**, 122-124, 145-164 | 0.9 | 8 |
| 88 | Interpolation of matrices and matrix-valued densities: The unbalanced case. *European Journal of Applied Mathematics*, **2019**, 30, 458-480 | 1 | 7 |
| 87 | Fast approximate surface evolution in arbitrary dimension. *Proceedings of SPIE*, **2008**, 6914, | 1.7 | 7 |
| 86 | Some remarks on optimal interpolation. *Systems and Control Letters*, **1988**, 11, 259-264 | 2.4 | 7 |
| 85 | Shape-Based Approach to Robust Image Segmentation using Kernel PCA. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, **2006**, 977-984 | 6 | 7 |
| 84 | Wasserstein Geometry of Quantum States and Optimal Transport of Matrix-Valued Measures. *Lecture Notes in Control and Information Sciences - Proceedings*, **2018**, 139-150 | 0.2 | 7 |
| 83 | On Area Preserving Mappings of Minimal Distortion. *Kluwer International Series in Engineering and Computer Science*, **2000**, 275-286 | | 7 |
| 82 | Matricial Wasserstein-1 Distance **2017**, 1, 14-19 | | 6 |
| 81 | A novel kernel Wasserstein distance on Gaussian measures: An application of identifying dental artifacts in head and neck computed tomography. *Computers in Biology and Medicine*, **2020**, 120, 103731 | 7 | 6 |

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| 80 | Simultaneous Multi-object Segmentation Using Local Robust Statistics and Contour Interaction. *Lecture Notes in Computer Science*, **2011**, 195-203 | 0.9 | 6 |
| 79 | Localized Statistics for DW-MRI Fiber Bundle Segmentation. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, **2008**, 1-8 | 6 | 6 |
| 78 | Locally-Constrained Region-Based Methods for DW-MRI Segmentation. *Proceedings of the IEEE International Conference on Computer Vision*, **2007**, 1-8 | 3.3 | 6 |
| 77 | Comparative Analysis of Kernel Methods for Statistical Shape Learning. *Lecture Notes in Computer Science*, **2006**, 96-107 | 0.9 | 6 |
| 76 | On approximation of smooth functions from samples of partial derivatives with application to phase unwrapping. *Signal Processing*, **2008**, 88, 358-374 | 4.4 | 5 |
| 75 | Affine Registration of label maps in Label Space **2010**, 2, 1-11 | | 5 |
| 74 | Medial Axis Computation and Evolution. *Modeling and Simulation in Science, Engineering and Technology*, **2006**, 1-28 | 0.8 | 5 |
| 73 | Evaluation of nucleus segmentation in digital pathology images through large scale image synthesis. *Proceedings of SPIE*, **2017**, 10140, | 1.7 | 4 |
| 72 | Nano filler dispersion in polymer composites for electronic packaging **2012**, | | 4 |
| 71 | Object tracking and target reacquisition based on 3-D range data for moving vehicles. *IEEE Transactions on Image Processing*, **2011**, 20, 2912-24 | 8.7 | 4 |
| 70 | Stochastic approximations to curve-shortening flows via particle systems. *Journal of Differential Equations*, **2003**, 195, 119-142 | 2.1 | 4 |
| 69 | Coronary vessel cores from 3D imagery: a topological approach **2005**, | | 4 |
| 68 | On the Nehari problem for a certain class of L∞ functions appearing in control theory, II. *Journal of Functional Analysis*, **1988**, 81, 207-218 | 1.4 | 4 |
| 67 | Noise-Resistant Affine Skeletons of Planar Curves. *Lecture Notes in Computer Science*, **2000**, 742-754 | 0.9 | 4 |
| 66 | Anomaly detection in videos: A dynamical systems approach **2013**, | | 3 |
| 65 | Particle Filtering with Region-based Matching for Tracking of Partially Occluded and Scaled Targets. *SIAM Journal on Imaging Sciences*, **2011**, 4, 220-242 | 1.9 | 3 |
| 64 | Trajectory control of PbSe-gamma-Fe2O3 nanoplatforms under viscous flow and an external magnetic field. *Nanotechnology*, **2010**, 21, 175702 | 3.4 | 3 |
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| 62 | Frequency domain methods for the H∞ Optimization of distributed systems **1993**, 242-278 | | 3 |
| 61 | On combined H∞ H2 suboptimal interpolants. *Linear Algebra and Its Applications*, **1994**, 203-204, 443-469 | 0.9 | 3 |
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| 59 | Spectral Nevanlinna-Pick interpolation theory and robust stabilization **1987**, | | 3 |
| 58 | **1986**, | | 3 |
| 57 | Guiding Image Segmentation on the Fly: Interactive Segmentation From a Feedback Control Perspective. *IEEE Transactions on Automatic Control*, **2018**, 63, 3276-3289 | 5.9 | 2 |
| 56 | Optimal mass transport kinetic modeling for head and neck DCE-MRI: Initial analysis. *Magnetic Resonance in Medicine*, **2019**, 82, 2314-2325 | 4.4 | 2 |
| 55 | Macroscopic analysis of crowd motion in video sequences **2014**, | | 2 |
| 54 | Reconstruction and Feature Selection for Desorption Electrospray Ionization Mass Spectroscopy Imagery. *Proceedings of SPIE*, **2014**, 9036, 90360D | 1.7 | 2 |
| 53 | Nonparametric clustering for studying RNA conformations. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2011**, 8, 1604-19 | 3 | 2 |
| 52 | Interactive MRI Segmentation with Controlled Active Vision **2011**, 2293-2298 | 1.3 | 2 |
| 51 | A video analytics framework for amorphous and unstructured anomaly detection **2011**, | | 2 |
| 50 | Fast Optimal Mass Transport for Dynamic Active Contour Tracking on the GPU **2007**, | | 2 |
| 49 | On the eye tracking problem: a challenge for robust control. *International Journal of Robust and Nonlinear Control*, **2000**, 10, 875-888 | 3.6 | 2 |
| 48 | Visual tracking, active vision, and gradient flows **1998**, 183-194 | | 2 |
| 47 | Nonlinear $H^\infty$ Optimization: A Causal Power Series Approach. *SIAM Journal on Control and Optimization*, **1995**, 33, 185-207 | 1.9 | 2 |
| 46 | On the structured singular value for operators on Hilbert space **1995**, 11-23 | | 2 |
| 45 | Optimal sensitivity theory for multivariate distributed plants. *International Journal of Control*, **1988**, 47, 985-992 | 1.5 | 2 |

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| 44 | Non-rigid 2D-3D pose estimation and 2D image segmentation | | 2 |
| 43 | On the optimal two block H☐compensators for distributed unstable plants **1992**, | | 2 |
| 42 | New Solution to The Two Block H^|^infin; Problem for Infinite-Dimensional Stable Plants. *Transactions of the Society of Instrument and Control Engineers*, **1996**, 32, 1416-1424 | 0.1 | 2 |
| 41 | 4D Active Surfaces for Cardiac Analysis. *Lecture Notes in Computer Science*, **2002**, 667-673 | 0.9 | 2 |
| 40 | Fisher-Rao Regularized Transport Analysis of the Glymphatic System and Waste Drainage. *Lecture Notes in Computer Science*, **2020**, 12267, 573-582 | 0.9 | 2 |
| 39 | On the uniqueness of a minimal norm representative of an operator in the commutant of the compressed shift. *Proceedings of the American Mathematical Society*, **1987**, 101, 687-687 | 0.8 | 2 |
| 38 | Segmentation of Diffusion Tensor Imagery **2003**, 239-247 | | 2 |
| 37 | Interactive Image Segmentation Framework Based On Control Theory. *Proceedings of SPIE*, **2015**, 9413, | 1.7 | 1 |
| 36 | Interpolation of Longitudinal Shape and Image Data via Optimal Mass Transport. *Proceedings of SPIE*, **2014**, 9034, 90342X | 1.7 | 1 |
| 35 | Matrix-valued Monge-Kantorovich optimal mass transport **2013**, | | 1 |
| 34 | TEMPORAL REGISTRATION OF PARTIAL DATA USING PARTICLE FILTERING. *Proceedings International Conference on Image Processing*, **2011**, 2177-2180 | 1.6 | 1 |
| 33 | TAC: Thresholding active contours **2008**, | | 1 |
| 32 | Tissue Tracking: Applications for Brain MRI Classification. *Proceedings of SPIE*, **2007**, 6512, | 1.7 | 1 |
| 31 | Affine invariant surface evolutions for 3D image segmentation **2006**, | | 1 |
| 30 | Computation of the singular values of Toeplitz operators and the gap metric. *Systems and Control Letters*, **1999**, 36, 327-338 | 2.4 | 1 |
| 29 | On skew Toeplitz operations, I **1987**, | | 1 |
| 28 | Weighted sensitivity minimization: General plants in H☐and rational weights **1987**, | | 1 |
| 27 | Mass preserving registration for heart MR images. *Lecture Notes in Computer Science*, **2005**, 8, 147-54 | 0.9 | 1 |

| # | Title | | |
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| 26 | Iterative Commutant Lifting for Systems with Rational Symbol **1989**, 255-277 | | 1 |
| 25 | The Equivalence among the Solutions of the H^|^infin; Optimal Sensitivity Computation Problem. *Transactions of the Society of Instrument and Control Engineers*, **1995**, 31, 1954-1961 | 0.1 | 1 |
| 24 | Optimal Mass Transport for Problems in Control, Statistical Estimation, and Image Analysis **2012**, 311-324 | | 1 |
| 23 | $H^\infty$-Optimal Control and Related Minimax Design Problems (Tamer Basar and Pierre Bernhard). *SIAM Review*, **1993**, 35, 538-540 | 7.4 | 0 |
| 22 | On the Computation of Optimal Transport Maps Using Gradient Flows and Multiresolution Analysis. *Lecture Notes in Control and Information Sciences*, **2008**, 65-78 | 0.5 | 0 |
| 21 | Curve Shortening and Interacting Particle Systems. *Modeling and Simulation in Science, Engineering and Technology*, **2006**, 303-311 | 0.8 | 0 |
| 20 | Equi-affine differential invariants for invariant feature point detection. *European Journal of Applied Mathematics*, **2020**, 31, 277-296 | 1 | 0 |
| 19 | Machine Learning for Joint Classification and Segmentation. *Lecture Notes in Control and Information Sciences - Proceedings*, **2018**, 327-339 | 0.2 | |
| 18 | Sparse Blind Source Separation via ℓ1-Norm Optimization. *Lecture Notes in Control and Information Sciences*, **2010**, 321-330 | 0.5 | |
| 17 | 3D Automatic Segmentation of the Hippocampus Using Wavelets with Applications to Radiotherapy Planning. *Advances in Intelligent and Soft Computing*, **2010**, 17-31 | | |
| 16 | Visual Tracking and Object Recognition. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2001**, 34, 1539-1542 | | |
| 15 | Nonlinearity in $H^\infty$ control theory, causality in the commutant lifting theorem, and extension of intertwining operators. *Integral Equations and Operator Theory*, **1995**, 23, 89-100 | 0.5 | |
| 14 | New Solution to the Two Block $H^\infty$ Problem for Infinite-Dimensional Stable Plants. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1996**, 29, 3051-3056 | | |
| 13 | Label Space: A Multi-object Shape Representation **2008**, 185-196 | | |
| 12 | Crystalline Stochastic Systems and Curvature Driven Flows. *The IMA Volumes in Mathematics and Its Applications*, **2003**, 41-61 | 0.5 | |
| 11 | Iterative Commutant Lifting for Systems with Rational Symbol **1989**, 747-769 | | |
| 10 | Nonlinear $H^\infty$ Theory **1990**, 267-276 | | |
| 9 | Operator Theoretic Methods in the Control of Distributed and Nonlinear Systems. *The IMA Volumes in Mathematics and Its Applications*, **1990**, 51-78 | 0.5 | |

8     Standard Problem for Distributed Systems **1990**, 599-608

7     Generalized Interpolation Theory and Its Application to Robust Control Design. *Control and Dynamic Systems*, **1993**, 163-217

6     Affine invariant gradient flows. *Lecture Notes in Control and Information Sciences*, **1996**, 194-200     0.5

5     On the Nonlinear Standard H Problem **1997**, 413-429

4     Differential Invariants and Curvature Flows in Active Vision. *European Consortium for Mathematics in Industry*, **1997**, 196-213

3     Skew Toeplitz Solution to The H^|^infin; Problem for Infinite-Dimensional Unstable Plants. *Transactions of the Society of Instrument and Control Engineers*, **1997**, 33, 1066-1071     0.1

2     Gradients, Curvature, and Visual Tracking **1998**, 375-390

1     Human Supervisory Control Framework for Interactive Medical Image Segmentation **2012**, 77-88