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2292	Volume flow calculations on gas leaks imaged with infrared gas-correlation. 2012 , 20, 20318		
2291	Volume flow calculations on gas leaks imaged with infrared gas-correlation. 2012 , 20, 20318		
2290	Vibration frequency measurement using a local multithreshold technique. 2013 , 21, 26198		
2289	Vibration frequency measurement using a local multithreshold technique. 2013 , 21, 26198		
2288	Vibration frequency measurement using a local multithreshold technique. 2013 , 21, 26198		
2287	Vibration frequency measurement using a local multithreshold technique. 2013 , 21, 26198		
2286	Vibration frequency measurement using a local multithreshold technique. 2013 , 21, 26198		
2285	Volume flow calculations on gas leaks imaged with infrared gas-correlation. 2012 , 20, 20318		
2284	Vibration frequency measurement using a local multithreshold technique. 2013 , 21, 26198		
2283	180220_movie_HFR-STE-LV.gif.		
2282			1
2281			1
2280	An optical flow probabilistic observation model for tracking.		1
2279	Wavelet-based optical flow estimation.		
2278	Motion estimation hardware for autonomous vehicle guidance.		

(1995-)

2277 On the use of optical flow in mobile robot navigation: the search for a suitable algorithm.

2276 On robustness and localization accuracy of optical flow computation from color imagery.	3
QUASI-INVARIANCE AND DIFFERENTIABILITY OF MEASURES. 1978 , 33, 159-159	1
Laser beam formation for intracavity processing of objects. 1986 , 16, 1380-1384	3
2273 . 1993 , 15, 1253-1268	130
2272 .	2
2271 .	4
2270 .	4
2269 .	4
2268 . 1994 ,	2
2267 . 1994 ,	67
Measurement of complex optical flow with use of an augmented generalized gradient scheme. 1994 , 11, 2787	4
2265 Computational analysis of non-Fourier motion. 1994 , 34, 3057-79	69
2264 .	3
2263 A generalized motion model for estimating optical flow using 3-D Hermite polynomials.	1
2262 .	
2261 .	5
2260 Encoding motion and approximate segmentation in a slicing floorplan tree structure. 1995 ,	

Optic flow and autonomous navigation. 1995 , 24, 253-67		8
2258 Curve evolution and the computation of optical flow. 1995 , 2573, 419		
Estimation of image motion through mathematical modeling. 1995 , 2501, 1129		
Estimation of optical flow based on higher-order spatiotemporal derivatives in interlaced and non-interlaced image sequences. 1995 , 78, 5-43		44
Robust computation of optical flow in a multi-scale differential framework. <i>International Journal of Computer Vision</i> , 1995 , 14, 67-81	10.6	129
2254 Optical flow: a curve evolution approach.		5
2253 .		2
2252 Analog VLSI architecture for computing heading direction.		5
Direct recovery of motion and range from images of scenes with time-varying illumination.		14
2250 Optical flow techniques applied to video coding.		16
2249 Strategies for visual navigation, target detection and camouflage: inspirations from insect vision.		4
2248 Modeling foreshortening in stereo vision using local spatial frequency.		3
2247 Realtime multiple object tracking based on optical flows.		16
2246 . 1995 , 83, 705-741		1387
2245 . 1995 , 83, 858-876		239
2244 .		10
A frequency domain performance analysis of Horn and Schunck's optical flow algorithm for deformable motion. 1995 , 4, 1324-7		8
2242 .		2

2241 Physically-based adaptive preconditioners for early vision.	5
2240 .	6
2239 Real-time quantized optical flow.	8
2238 .	12
2237 A motion computation and interpretation framework for oceanographic satellite images.	6
2236 An adaptive smoothness constraint for computing optical flow on sequences of cardiac images.	O
Video-rate pyramid optical flow computation on the linear SIMD array IVIP.	
2234 Moment filters for high precision computation of focus and stereo.	3
2233 Range image segmentation: the user's dilemma.	6
2232 Robust and efficient algorithms for optical flow computation.	6
2231 Motion-model-based boundary extraction.	
2230 A real-time vision for intelligent vehicles.	10
2229 . 1995 , 17, 61-67	81
2228 The computation of optical flow. <i>ACM Computing Surveys</i> , 1995 , 27, 433-466	3.4 674
Analog VLSI architectures for motion processing: from fundamental limits to system applications. 1996, 84, 969-987	47
2226 Non-rigid matching using demons. 1996 ,	100
Optical flow: a curve evolution approach. 1996 , 5, 598-610	53
2224 An experimental comparison of range image segmentation algorithms. 1996 , 18, 673-689	515

Active stereo vision system with foveated wide angle lenses. 1996 , 191-200	13
2222 Real-time parallel computation of disparity and optical flow using phase difference. 1996 , 9, 87-9	96 10
Motion estimation and segmentation. 1996 , 9, 32-42	16
2220 A fast scalable algorithm for discontinuous optical flow estimation. 1996 , 18, 181-194	36
The performance of camera translation direction estimators from optical flow: analysis, comparison, and theoretical limits. 1996 , 18, 927-932	12
Estimating optical flow in segmented images using variable-order parametric models with local deformations. 1996 , 18, 972-986	108
Motion estimation with quadtree splines. 1996 , 18, 1199-1210	55
2216 Multiple constraints to compute optical flow. 1996 , 18, 1243-1250	24
2215 System implementations of analog VLSI velocity sensors. 1996 , 16, 40-49	15
2214 Passive navigation from image sequences - A practitioner's approach. 1996 ,	3
2213 An approach to obstacle detection and steering control from optical flow.	3
2212 Recovering affine motion and defocus blur simultaneously. 1996 ,	
2211 Skin and bones: multi-layer, locally affine, optical flow and regularization with transparency. 199 0	6 , 68
2210 Automatic violence detection in digital movies. 1996 ,	2
2209 Motion estimation using complex wavelets. 1996 ,	6
2208 Robust multiresolution computation of optical flow.	2
2207 Adapted differentiators for image motion estimation. 1996 , 32, 876	
2206 Chapter 14 General theory of geometric estimation. 1996 , 451-499	

2205 Image motion estimation from motion smear-a new computational model. 1996 , 18, 412-425		51
2204 Closing the loop: detection and pursuit of a moving object by a moving observer. 1996 , 14, 265-275		28
Evaluation of differential optical flow techniques on synthesized echo images. 1996 , 43, 259-72		66
2202 Detection and tracking of returns in sector-scan sonar image sequences. 1996 , 143, 157		19
A cellular automaton for the determination of the mean velocity of moving objects and its VLSI implementation. 1996 , 29, 689-699		29
2200 Recursive estimation of time-varying motion and structure parameters. 1996 , 29, 797-818		24
The use of optical flow for the analysis of non-rigid motions. <i>International Journal of Computer Vision</i> , 1996 , 18, 255-279	10.6	12
Computation and analysis of image motion: A synopsis of current problems and methods. International Journal of Computer Vision, 1996 , 19, 29-55	10.6	177
2197 Monocular optical flow for real-time vision systems. 1996 ,		6
2196 Robust discontinuity-preserving model for estimating optical flow. 1996 ,		2
2196 Robust discontinuity-preserving model for estimating optical flow. 1996 , 2195 Motion without structure. 1996 ,		11
2195 Motion without structure. 1996 ,		11
2195 Motion without structure. 1996 , 2194 Optical flow techniques applied to the calibration of visual perception experiments. 1996 ,		11 7
2195 Motion without structure. 1996 , 2194 Optical flow techniques applied to the calibration of visual perception experiments. 1996 , 2193 Optical-flow estimation while preserving its discontinuities: A variational approach. 1996 , 69-80		11 7 23
2195 Motion without structure. 1996, 2194 Optical flow techniques applied to the calibration of visual perception experiments. 1996, 2193 Optical-flow estimation while preserving its discontinuities: A variational approach. 1996, 69-80 2192 . 1996,		11 7 23 23
2194 Optical flow techniques applied to the calibration of visual perception experiments. 1996, 2193 Optical-flow estimation while preserving its discontinuities: A variational approach. 1996, 69-80 2192 .1996, 2191 Content-based indexing of image and video databases by global and shape features. 1996,		11 7 23 23

2187 Frame-free video.

2186 Robust optic flow estimation using least median of squares.	5
2185 Motion analysis of echocardiograph using optical flow method.	10
$_{21}8_{4}$ Estimation of motion boundary location and optical flow using dynamic programming.	5
2183 .	7
2182 Motion estimation using complex wavelets.	6
2181 Measuring confidence in optical flow estimation. 1996 , 32, 882	13
2180 .	1
2179 Mobile vehicle's egomotion estimation from time varying image sequences.	
2178 Robust real-time tracking on an active vision head.	6
The analysis of motion in natural scenes using a spatiotemporal/spatiotemporal-frequency representation.	1
2176 Linear spatio-temporal scale-space. 1997 , 113-127	14
2175 Fast stereovision by coherence detection. 1997 , 297-304	7
2174 Crowd motion estimation and motionless detection in subway corridors by image processing.	6
2173 Three-dimensional motion and dense-structure estimation using convex projections. 1997 , 3024, 1122	
2172 Automatic dominant camera motion annotation for video retrieval. 1997 , 3312, 50	3
2171 On automatic selection of temporal scales in time-causal scale-space. 1997 , 94-113	15
2170 .	

Acoustic Motion Estimation in a Structured Environment for an Unmanned Underwater Vehicle. **1997**, 30, 319-324

2168 Motion estimation using ordinal measures. 2167 Multiscale modeling and estimation of motion fields for video coding. 1997, 6, 1606-20 2166 Image velocity estimation from trajectory surface in spatiotemporal space. 2165 A data-driven method for choosing smoothing parameters in optical flow problems. 2164 . 2163 .	
2166 Image velocity estimation from trajectory surface in spatiotemporal space. 2165 A data-driven method for choosing smoothing parameters in optical flow problems. 2164 .	
2165 A data-driven method for choosing smoothing parameters in optical flow problems. 2164 .	
2164 .	
	6
2163 .	O
Video orbits of the projective group a simple approach to featureless estimation of parameters. 1997, 6, 1281-95	15
2161 Optic flow calculation using robust statistics.	0
Weighting Coefficient Determination In A Displacement Estimation Functional Using The Dynamical Similarity Principle.	
2159 Learning parameterized models of image motion. 58	8
2158 A real-time smart sensor system for visual motion estimation. 1997 ,	
2157 Robust motion estimation using complex wavelets. 5	
2156 View generation for three-dimensional scenes from video sequences. 1997 , 6, 584-98	8
Vector coherence mapping: A parallelizable approach to image flow computation. 1997 , 591-598	
Vers l'analyse du mouvement tridimensionnel du corps humain par une mEhode de traitement d'images en niveaux de gris. 1997 , 12, 3s-6s	
2153 Physically based adaptive preconditioning for early vision. 1997 , 19, 594-607	0

2151	Estimating optical flow by tracking contours. 1997 , 18, 641-648		4
2150	Subjective image fidelity metric based on bit allocation of the human visual system in the DCT domain. 1997 , 15, 535-548		22
2149	Determining optical flow using a differential method. 1997 , 15, 11-22		30
2148	A Two-Stage Algorithm for Motion Discontinuity-Preserving Optical Flow Estimation. 1997 , 65, 19-37		7
2147	A Parallel Feature Tracker for Extended Image Sequences. 1997 , 67, 296-310		7
2146	Multiscale Approach to Image Sequence Analysis. 1997 , 65, 259-268		21
2145	Motion from Color. 1997 , 68, 346-362		47
2144	Optical Flow Estimation Using Discontinuity Conforming Filters. 1997 , 68, 276-289		2
2143	Hypergeometric Filters for Optical Flow and Affine Matching. <i>International Journal of Computer Vision</i> , 1997 , 24, 163-177	10.6	8
2142	Moment and Hypergeometric Filters for High Precision Computation of Focus, Stereo and Optical Flow. <i>International Journal of Computer Vision</i> , 1997 , 22, 25-59	10.6	10
2141	Gradient Based Image Motion Estimation Without Computing Gradients. <i>International Journal of Computer Vision</i> , 1997 , 22, 81-101	10.6	15
2140	A Principal Component Clustering Approach to Object-Oriented Motion Segmentation and Estimation. 1997 , 17, 163-187		6
2139	A General Motion Model and Spatio-Temporal Filters for Computing Optical Flow. <i>International Journal of Computer Vision</i> , 1997 , 22, 141-172	10.6	30
2138	Spline-Based Image Registration. International Journal of Computer Vision, 1997, 22, 199-218	10.6	127
2137	A stochastic approach for blurred image restoration and optical flow computation on field image sequence. 1997 , 12, 385-399		1
2136	Optic flow estimation by a Hopfield neural network using geometrical constraints. 1997 , 10, 114-122		
2135	Acquisition of high-resolution digital images in video microscopy: automated image mosaicking on a desktop microcomputer. 1997 , 38, 335-9		13
2134	3-D Structure from Visual Motion: Modeling, Representation and Observability**This paper was not presented at any IFAC meeting. This paper was recommended for publication in revised form by Associate Editor Hassan Khalil under the direction of Editor Tamer Ballr.11The estimation of the		46

nonlinear systems whose state evolves on certain differentiable manifolds; noisy measurements are performed in projective spaces.. **1997**, 33, 1287-1312

2133	Minimal complexity velocity-tuned filters with analogue neuromorphic networks: A theoretical approach for efficient design. 1998 , 8, 229-239	1
2132	The Intrinsic Structure of Optic Flow Incorporating Measurement Duality. <i>International Journal of Computer Vision</i> , 1998 , 27, 263-286	34
2131	New Visual Invariants for Terrain Navigation Without 3D Reconstruction. <i>International Journal of Computer Vision</i> , 1998 , 28, 45-71	3
2130	Reliable and Efficient Computation of Optical Flow. <i>International Journal of Computer Vision</i> , 1998 , 29, 87-105	51
2129	Robust Optic Flow Computation. <i>International Journal of Computer Vision</i> , 1998 , 29, 59-77 10.6	86
2128	Motion-Model-Based Boundary Extraction and a Real-Time Implementation. 1998 , 70, 87-99	4
2127	Accuracy vs Efficiency Trade-offs in Optical Flow Algorithms. 1998 , 72, 271-286	87
2126	Efficient Scene Change Detection and Camera Motion Annotation for Video Classification. 1998 , 71, 166-181	63
2125	Contour motion estimation from image sequences using curvature information. 1998 , 31, 31-39	2
2124	Contour matching: a curvature-based approach. 1998 , 16, 181-189	13
2123	A scale selection principle for estimating image deformations. 1998 , 16, 961-977	24
2122	Recursive Optical Flow Estimation Adaptive Filtering Approach. 1998, 9, 119-138	23
2121	Real-Time Tracking of Moving Objects with an Active Camera. 1998 , 4, 3-20	39
2120	Robust Regression for the Detection of Independent 3D Motion by a Binocular Observer. 1998 , 4, 125-141	3
2119	MRI monitoring of laser ablation using optical flow. 1998 , 8, 1306-18	19
2118	Particle image velocimetry with optical flow. <i>Experiments in Fluids</i> , 1998 , 25, 177-189 2.5	133
2117	Analog computation for phase-based disparity estimation: continuous and discrete models. 1998 , 11, 83-95	4
2116	An efficient motion estimator with application to medical image registration. 1998 , 2, 79-98	46

2115 lma	ge matching as a diffusion process: an analogy with Maxwell's demons. 1998 , 2, 243-60	1575
2114 Rec	ustering techniques improve early vision feature maps. 1998 , 1, 42-51	1
2113 Spa	ciotemporal energy-based method for velocity estimation. 1998 , 65, 347-362	15
2112 Rob	ust reweighted MAP motion estimation. 1998 , 20, 353-365	13
2111 Rec	overing affine motion and defocus blur simultaneously. 1998 , 20, 652-658	31
2110 Spa l	cio-temporal segmentation based on region merging. 1998 , 20, 897-915	116
2109 Red	ucing "Structure from Motion": a general framework for dynamic vision. 1. Modeling. 1998 , 20, 933-942	54
	ucing "Structure from Motion": a general framework for dynamic vision. 2. Implementation and erimental assessment. 1998 , 20, 943-960	22
	ised definition of optical flow: integration of radiometric and geometric cues for dynamic scene ysis. 1998 , 20, 961-979	152
2106 Esti	mation of dense image flow fields in fluids. 1998 , 36, 256-264	23
2105 Tem	poral Enhancement And Color Based Motion Detection In Image Sequences.	1
2104	cio-temporal continuous wavelet transforms for motion-based segmentation in real image uences.	1
2103 Eval	uation of image stabilization algorithms.	66
2102 Vide	eo segmentation based on multiple features for interactive multimedia applications. 1998 , 8, 562-571	77
2101 Aha	rmonic retrieval framework for discontinuous motion estimation. 1998 , 7, 1242-57	17
	osing the optimal neighbourhood size in optical flow problems with errors-in-variables Ielling.	3
2099 Согі	relation-feedback technique in optical flow determination. 1998 , 7, 1061-7	5
2098 Ma k	ing good features track better.	60

2097 An optical-flow person following behaviour.	8
2096 Optical flow estimation using wavelet motion model.	4
2095 A morphological, affine, and Galilean invariant scale-space for movies. 1998 , 7, 444-56	19
2094 •	2
2093 A multigrid approach for hierarchical motion estimation.	29
2092 Total least squares estimation of stereo optical flow.	1
Dense estimation and object-based segmentation of the optical flow with robust techniques. 1998 , 7, 703-19	192
Robust tracking of multiple objects in sector-scan sonar image sequences using optical flow motion estimation. 1998 , 23, 31-46	44
Humanistic computing: "WearComp" as a new framework and application for intelligent signal processing. 1998 , 86, 2123-2151	84
2088 Motion estimation using a complex-valued wavelet transform. 1998 , 46, 1069-1084	106
2087 Real-time human motion analysis by image skeletonization.	116
2086 A review of image-warping methods. 1998 , 25, 155-171	169
Decoupling Fourier components of dynamic image sequences: A theory of signal separation, image segmentation, and optical flow estimation. 1998 , 69-85	7
2084 Spatiotemporally adaptive estimation and segmentation of OF-fields. 1998 , 86-102	18
2083 Optical flow using overlapped basis functions for solving global motion problems. 1998 , 288-304	6
	0
2082 Discrete wavelet analysis: A new framework for fast optic flow computation. 1998 , 354-368	8
2082 Discrete wavelet analysis: A new framework for fast optic flow computation. 1998 , 354-368 2081 Joint estimation-segmentation of optic flow. 1998 , 563-577	4

2079 .	О
2078 . 1998 , 11, 201-211	
2077 RETIMAC: REal-Time Motion Analysis Chip. 1998 , 45, 361-375	4
2076 Atmospheric turbulence visualisation through image time-sequence registration.	
2075 Co-design by parallel prototyping: optical-flow detection case study. 1998 ,	1
2074 Bias-corrected optical flow estimation for road vehicle tracking. 1998 ,	6
2073 Scene segmentation from 3D motion.	2
2072 Estimating coloured 3D face models from single images: An example based approach. 1998 , 499-513	16
2071 The use of optical flow for road navigation. 1998 , 14, 34-48	142
2070 .	17
2069 Reducing chromatic grain noise in film sequences. 1998,	2
2068 Query by video clip.	5
2067 Segmentation using spatial-feature clustering from image sequences.	2
2066 Precise planar positioning using visual servoing based on coarse optical flow.	4
2065 Estimation of image feature reliability for an interactive video segmentation scheme.	
2064 Errors-in-variables modelling in optical flow problems.	6
2063 3D Vision Process Based on Motion Parallax and Accommodation Principle Fusion. 1998 , 31, 417-422	

Computing optical flow for motion images sequences by applying multi-constraints to 2061 multi-locations. 2060 Hierarchical 2D content-based mesh tracking for video object. 1998, 2059 Visual tracking, active vision, and gradient flows. **1998**, 183-194 2 High precision image matching using 4D optimal minimisation

2058 High precision image matching using 4D optimal minimisation.	
Dendritic structure and receptive-field organization of optic flow processing interneurons in the fly. 1998 , 79, 1902-17	231
2056 Direct visualization of organ of corti kinematics in a hemicochlea. 1999 , 82, 2798-807	51
2055 Image Sequences. 1999,	
2054 The PDAF based active contour. 1999 ,	1
2053 Locking onto 3D-structure by a combined vergence- and fusion system.	1
2052 Automatic face feature tracking.	O
2051 Face image matching using fractal dimension.	3
2050 Real-time control of a mobile robot by using visual stimuli.	
2049 Differential matching constraints. 1999 ,	7
2048 Optimal filters for gradient-based motion estimation. 1999 ,	12
2047 .	O
2046 Structure from motion: sparse versus dense correspondence methods. 1999 ,	10
2045 Parallel Computation. 1999 ,	1
High-resolution image reconstruction from digital video by exploitation of nonglobal motion. 1999 , ²⁰⁴⁴ 38, 806	11

2043	Motion-compensated multichannel noise reduction of color film sequences. 1999 , 8, 246	3
2042	Regularization of optic flow estimates by means of weighted vector median filtering. 1999 , 8, 1462-7	21
2041	•	
2040	Two-dimensional matched filtering for motion estimation. 1999 , 8, 438-44	24
2039	A fast rate-optimized motion estimation algorithm for low-bit-rate video coding. 1999 , 9, 994-1002	15
2038	Prediction error as a quality metric for motion and stereo. 1999 ,	54
2037	An efficient neuromorphic analog network for motion estimation. 1999 , 46, 269-280	22
2036	A new system for the acquisition of ultrasonic multicompression strain images of the human prostate in vivo. 1999 , 46, 1147-54	69
2035	A multi-differential neuromorphic approach to motion detection. 1999 , 9, 429-34	12
2034	ADAPTIVE GABOR FILTERS FOR PHASE-BASED DISPARITY ESTIMATION. 1999 , 13, 591-614	4
2033	Robot navigation inspired by principles of insect vision. 1999 , 26, 203-216	142
2032	Generative character of perception: a neural architecture for sensorimotor anticipation. 1999 , 12, 1101-1129	45
2031	Dynamic motion analysis using wavelet flow surface images. 1999 , 20, 383-393	5
2030	Motion enhancement for preprocessing of optical flow detection and scientific visualization. 1999 , 20, 451-461	7
2029	An evolutionary system for recognition and tracking of synoptic-scale storm systems. 1999 , 20, 1389-1396	8
2028	A non-rigid registration algorithm for dynamic breast MR images. 1999 , 114, 125-156	35
2027	Object Oriented Motion-Segmentation for Video-Compression in the CNN-UM. 1999 , 23, 479-496	8
2026	Non Uniform Multiresolution Method for Optical Flow and Phase Portrait Models: Environmental Applications. <i>International Journal of Computer Vision</i> , 1999 , 33, 29-49	25

2025 AV-Shell, an Environment for Autonomous Robotic Applications Using Active Vision. 1999 , 6, 21-38	1
2024 A hybrid approach for stereo disparity computation. 1999 , 11, 161-170	
2023 Query by video clip. 1999 , 7, 369-384	101
2022 Improving Feature Tracking with Robust Statistics. 1999 , 2, 312-320	54
Characterization of cell deformation and migration using a parametric estimation of image motion. 1999 , 46, 584-600	26
2020 Computation of instantaneous optical flow using the phase of Fourier components. 1999 , 17, 189-199	5
Detection of motion fields under spatio-temporal non-uniform illumination. 1999 , 17, 309-320	19
3D shape and 2D surface textures of human faces: the role of liverages in attractiveness and age. 1999, 18, 9-19	104
2017 A Survey on the Automatic Indexing of Video Data,. 1999 , 10, 78-112	135
2016 The Velocity Snake: Deformable Contour for Tracking in Spatio-Velocity Space. 1999 , 73, 346-356	31
2015 A tracker for broken and closely spaced lines. 1999 , 30, 18-26	6
Uncertainty model of the gradient constraint and quantitative reliability measures of optical flow. 1999 , 30, 9-17	
2013 Fast algorithms for the estimation of motion vectors. 1999 , 8, 435-8	54
2012 A parallel noise-robust algorithm to recover depth information from radial flow fields. 1999 , 11, 381-416	12
2011 Hierarchical 2-D mesh representation, tracking, and compression for object-based video. 1999 , 9, 353-369	37
2010 Real-time 3D flow generation system.	7
2009 Accurate motion flow estimation with discontinuities. 1999 ,	12
2008 A model of the effect of image motion in the Radon transform domain. 1999 , 8, 1276-81	31

2007	. 1999,	181
2006	Hybrid estimation of navigation parameters from aerial image sequence. 1999 , 8, 429-35	13
2005	Illumination invariant background extraction.	2
2004	Intrinsic multiscale representation using optical flow in the scale-space. 1999 , 8, 444-7	3
2003	Cellular automata-based optical flow computation for "just-in-time" applications.	1
2002	Moving target detection in infrared imagery using a regularized CDWT optical flow.	
2001	Rotational and translational motion estimation and selective reconstruction in digital image sequences. 1999 ,	
2000	Robust tracking of position and velocity with Kalman snakes. 1999 , 21, 564-569	171
1999	A new interpretation and improvement of the nonlinear anisotropic diffusion for image enhancement. 1999 , 21, 940-946	65
1998	Computing Optical Flow via Variational Techniques. 1999 , 60, 156-182	162
1997	A Mathematical Study of the Relaxed Optical Flow Problem in the Space \$BV (Omega)\$. 1999 , 30, 1282-1308	26
1996	Three-dimensional shape and two-dimensional surface reflectance contributions to face recognition: an application of three-dimensional morphing. 1999 , 39, 3145-55	88
1995	Optimally isotropic Laplacian operator. 1999 , 8, 1467-72	24
1995	Optimally isotropic Laplacian operator. 1999 , 8, 1467-72 Detection of aircraft in video sequences using a predictive optical flow algorithm. 1999 , 38, 523	12
1994	Detection of aircraft in video sequences using a predictive optical flow algorithm. 1999 , 38, 523	12
1994	Detection of aircraft in video sequences using a predictive optical flow algorithm. 1999 , 38, 523 A multiprocessor-oriented visual tracking system. 1999 , 46, 842-850 Direct estimation of motion from sea floor images for automatic station-keeping of submersible	7

1989 Detecting lip motion in digital video. 1999 ,	1
1988 Visual servoing based on coarse optical flow. 1999 , 32, 539-544	O
Detection of expansion, contraction and shear motion using spatio-temporal continuous wavelet transforms. 1999 , 32, 4331-4335	
1986 Motion based decompositing of video. 1999 ,	22
Probabilistic multichannel optical flow analysis based on a multipurpose visual representation of image sequences. 1999 ,	2
1984 A real-time motion stereo vision based on brightness difference.	
1983 Visual measurement estimation for autonomous vehicle navigation. 1999 ,	1
1982 Velocity estimation from images sequence and application to super-resolution.	
1981 Let us suppose a liquid optical flow in images-the validity of optical flow revisited.	
1980 Novel object detection method by probability velocity field. 2000 , 3966, 309	3
Three-dimensional optical flow method for measurement of volumetric brain deformation from intraoperative MR images. 2000 , 24, 531-8	48
1978 Region-based motion estimation in image sequences.	1
1977 Fast and robust prediction of optical flow field sequences for visuomotor anticipation. 2000 ,	1
1976 Feature-based image mosaicing. 2000 , 31, 1-9	5
1975 Robust multiresolution alignment of MRI brain volumes. 2000 , 43, 705-15	227
1974 Average Brain Models: A Convergence Study. 2000 , 77, 192-210	306
1973 Robustly Estimating Changes in Image Appearance. 2000 , 78, 8-31	78
1972 Feature Tracking in Video and Sonar Subsea Sequences with Applications. 2000 , 79, 92-122	32

1971	Modeling Parameter Space Behavior of Vision Systems Using Bayesian Networks. 2000 , 79, 185-223		7
1970	3D Shape Inferencing and Modeling for Video Retrieval. 2000 , 11, 41-57		2
1969	3D image acquisition and NURBS based geometry modelling of natural objects. 2000 , 31, 955-969		13
1968	Robust direct motion estimation considering discontinuity. 2000 , 21, 999-1011		3
1967	User-independent online gesture recognition by relative motion extraction. 2000 , 21, 69-82		11
1966	A neural fuzzy system for image motion estimation. 2000 , 114, 281-304		4
1965	BiolD: a multimodal biometric identification system. 2000 , 33, 64-68		192
1964	Iterative computation of 3D plane parameters. 2000 , 18, 1093-1100		3
1963	Matching techniques to compute image motion. 2000 , 18, 247-260		118
1962	Spatio-temporal optimization method for determining motion vector fields under non-stationary illumination. 2000 , 18, 939-950		10
1961	Image Registration Using Wavelet-Based Motion Model. <i>International Journal of Computer Vision</i> , 2000 , 38, 129-152	10.6	48
1960	Extracting Structure from Optical Flow Using the Fast Error Search Technique. <i>International Journal of Computer Vision</i> , 2000 , 37, 203-230	10.6	22
1959	Structure from Motion: Beyond the Epipolar Constraint. <i>International Journal of Computer Vision</i> , 2000 , 37, 231-258	10.6	27
1958	Design and Use of Linear Models for Image Motion Analysis. <i>International Journal of Computer Vision</i> , 2000 , 36, 171-193	10.6	56
1957	Visual Speech Synthesis by Morphing Visemes. <i>International Journal of Computer Vision</i> , 2000 , 38, 45-57	10.6	52
1956	Probabilistic Detection and Tracking of Motion Boundaries. <i>International Journal of Computer Vision</i> , 2000 , 38, 231-245	10.6	89
1955	Regularized CDWT optical flow applied to moving-target detection in IR imagery. 2000 , 11, 277-288		4
1954	User-independent gesture recognition by relative-motion extraction and discriminant analysis. 2000 , 18, 117-126		4

A model of motion adaptation and motion after-effects based upon principal component regression. 2000 , 83, 407-17	2
1952 .	
1951 Fast and accurate motion estimation using orientation tensors and parametric motion models.	46
1950 A VISION BASED SYSTEM FOR OBJECT DETECTION IN UNDERWATER IMAGES. 2000 , 14, 167-188	32
1949 A Computational Framework for Segmentation and Grouping - Pages 243-253. 2000 , 243-253	
1948 MRF solutions for probabilistic optical flow formulations.	8
1947 ·	0
1946 Real-time object tracking based on optical flow and active rays.	
1945 Block-matching evaluation in digital architectures for motion estimation.	
1944 Optical flow estimation over extended image sequence.	2
1943 ON THE STUDY OF VLSI DERIVATION FOR OPTICAL FLOW ESTIMATION. 2000 , 14, 441-461	6
1942 Fast motion estimation for real-time shape-adaptive MPEG-4 encoding. 2000 ,	4
1941 Image sequence evaluation: 30 years and still going strong.	13
1940 Computing optical flow based on the mass-conserving assumption.	1
1939 Vision Algorithms: Theory and Practice. 2000 ,	65
1938 Face analysis for the synthesis of photo-realistic talking heads.	12
1937 Objective quantification of the motion of soft tissues in the orbit. 2000 , 19, 986-95	24
1936 Application of panoramic annular lens for motion analysis tasks: surveillance and smoke detection.	20

1935 Fundamental matrix from optical flow: optimal computation and reliability evaluation. 2	2000 , 9, 194 8
Automatic enhancement of noisy image sequences through local spatiotemporal spectr 2000 , 39, 1457	rum analysis. 2
1933 .	8
1932 Evaluation of an Optical Flow Method for Measuring 2D and 3D Corn Seedling Growth.	2000 , 181-194
1931 Geometric Driven Optical Flow Estimation and Segmentation for 3D Reconstruction. 20	000 , 849-863
1930 An adaptive contour closure algorithm and its experimental evaluation. 2000 , 22, 1252-	1265 27
1929 Robust dense matching using local and global geometric constraints.	15
1928 A probabilistic sensor for the perception of activities.	7
1927 Comparison of tracking techniques applied to digital PIV.	2
1926 Computing optical flow with physical models of brightness variation.	11
1925 A level-set based approach to image registration.	20
1924 Properties of independent components of self-motion optical flow.	3
1923 Simultaneous estimation of optical flow and heat transport in infrared image sequence	s. 4
1922 Optimal filters for gradient-based motion estimation.	
SpatioTemporal Wavelets: A Group-Theoretic Construction for Motion Estimation and T 2000 , 61, 596-632	Fracking. 4
1920 . 2000 , 36, 1075-1089	11
1919 .	3
1918 Imaging heart motion using harmonic phase MRI. 2000 , 19, 186-202	321

1917 Autonomous target tracking by AUVs using dynamic vision.	3
1916 On the use of motion as a primitive quantity for autonomous vehicle guidance.	
1915 .	14
1914 Multiple camera tracking of interacting and occluded human motion. 2001 , 89, 1441-1455	136
1913 Algorithms for cooperative multisensor surveillance. 2001 , 89, 1456-1477	383
Development of real-time image sequence analysis for evaluating posture change and respiratory rate of a subject in bed. 2001 , 22, N21-8	67
1911 Multiple camera fusion for multi-object tracking.	43
1910 Motion estimation in the frequency domain using fuzzy c-planes clustering. 2001 , 10, 1873-9	11
1909 Fast optical flow estimation and its application to real-time obstacle avoidance.	8
A fast super-resolution reconstruction algorithm for pure translational motion and common space-invariant blur. 2001 , 10, 1187-93	280
Systematic errors in optical-flow velocimetry for turbulent flows and flames. <i>Applied Optics</i> , 2001 , 40, 757-64	1.7 9
1906 Computing optical flow with physical models of brightness variation. 2001 , 23, 661-673	138
1905 Dynamic image sequence analysis using fuzzy measures. 2001 , 31, 557-72	14
1904 A taxonomy and evaluation of dense two-frame stereo correspondence algorithms.	242
1903 Fixation could simplify, not complicate, the interpretation of retinal flow. 2001 , 41, 815-34	17
Gradient-based residual variance modeling and its applications to motion-compensated video coding. 2001 , 10, 24-35	10
1901 On a new motion estimation and segmentation framework for digital video processing.	
1900 Trinocular stereo: a real-time algorithm and its evaluation.	2

1899	Non-rigid object tracking using performance evaluation measures as feedback.	5
1898	A system for tracking laboratory animals based on optical flow and active contours.	4
1897	Evolving image segmentations for the analysis of video sequences.	1
1896	Estimating correspondence in digital video.	4
1895	Real-time disparity analysis for applications in immersive teleconference scenarios-a comparative study.	4
1894	Local gradient, global matching, piecewise-smooth optical flow.	2
1893	Performance evaluation of stereo for tele-presence.	15
1892	Estimating the motion direction from brightness gradient on lines. 2001 , 31, 419-426	1
1891	Errors-in-variables modeling in optical flow estimation. 2001 , 10, 1528-40	8
1890	. 2001,	3
1889	Toward flexible speech recognition-recent progress at Tokyo Institute of Technology.	2
1888	Early visual experience and the receptive-field organization of optic flow processing interneurons in the fly motion pathway. 2001 , 18, 1-8	41
1887	MRF-based moving object detection from MPEG coded video.	10
1886	A neural architecture for expectation driven detection of moving objects during egomotion.	1
1885	Recording the region of interest from FlyCam panoramic video.	
1884	Chapter 23 Information transfer between sensory and motor networks. 2001 , 4, 1001-1041	
1883	Multiple feature clustering for image sequence segmentation. 2001 , 22, 1207-1217	7

1881	Velocity estimation of spots in three-dimensional confocal image sequences of living cells. 2001 , 43, 261-72	13
1880	Motion Segmentation and Tracking with Edge Relaxation and Optimization using Fully Parallel Methods in the Cellular Nonlinear Network Architecture. 2001 , 7, 77-95	14
1879	Discrete Wavelet Analysis for Fast Optic Flow Computation. 2001 , 11, 32-63	17
1878	On Benchmarking Optical Flow. 2001 , 84, 126-143	173
1877	Automatic registration for images of two-dimensional protein gels. 2001 , 22, 1616-26	99
1876	A closed-form solution for optical flow by imposing temporal constraints.	O
1875	Image Registration, Optical Flow and Local Rigidity. 2001 , 14, 131-147	25
1874	On the use of optical flow methods with spin-tagging magnetic resonance imaging. 2001 , 29, 9-17	7
1873	Rapid modeling of animated faces from video. 2001 , 12, 227-240	46
1872	A penalized likelihood approach to image warping. 2001 , 63, 465-492	65
1871	Evaluating optical-flow algorithms on a parallel machine. 2001 , 19, 131-143	17
1870	Probabilistic estimation of optical flow in multiple band-pass directional channels. 2001 , 19, 339-351	12
1869	Entropy-based gaze planning. 2001 , 19, 779-786	32
1868	A 3-D marker-free system for the analysis of movement disabilitiesan application to the legs. 2001 , 5, 18-26	12
1867	3D translational motion estimation from 2D displacements.	
1866	Neural anticipative architecture for expectation driven perception.	1
1865	Estimation of elastic constants from 3D range-flow.	3
1864	A probabilistic approach for estimation of physiological movements in fMRI.	

 $\ensuremath{\mathtt{1863}}$ Fuzzy approach of motion estimation.

1862 Visual speech synthesis using quadtree splines.	
1861 Blind broadband source localization and separation in miniature sensor arrays.	17
1860 Ubiquitous speech processing.	3
Automatic Counterflow Detection in Subway Corridors by Image Processing. 2001 , 6, 97-123	2
1858 A data-driven model for monocular face tracking.	21
1857 Robust optical flow estimation using invariant feature.	
Very high accuracy velocity estimation using orientation tensors, parametric motion, and simultaneous segmentation of the motion field.	51
1855 Estimation and interpretation of discontinuities in optical flow fields.	14
1854 Functional Imaging and Modeling of the Heart. 2001 ,	13
1853 Motion-based segmentation and contour-based classification of video objects. 2001 ,	14
1852 Optical flow estimation using high frame rate sequences.	4
1851 A practical algorithm for exception event detection for the home video security surveillance.	2
$_{ m 1850}$ Space-frequency block motion field modeling for video coding. 2001 , 10, 486	
1849 Multi-image gradient-based algorithms for motion estimation. 2001 , 40, 2003	16
Quantigraphic Imaging: Estimating the camera response and exposures from differently exposed images.	33
1847 Target tracking by underwater robots.	
1846 Accurate optical flow in noisy image sequences. 2001 ,	20

1845	Segmentation and range sensing using a moving-aperture lens.	3
1844	Optical flow based speed estimation in AUV target tracking.	Ο
1843	Perceptual feedback in multigrid motion estimation using an improved DCT quantization. 2001 , 10, 1411-27	26
1842	Analysis of cloudy structures evolution on meteorological satellite acquisitions.	1
1841	Global motion model based on B-spline wavelets: application to motion estimation and video indexing.	5
1840	Analysis of motion and curvature in image sequences.	5
1839	A computational algebraic topology approach for optical flow.	2
1838	Density estimation-based information fusion for multiple motion computation.	1
1837	Local frequency representations for robust multimodal image registration. 2002 , 21, 462-9	49
1836	Computation and visualization of three-dimensional soft tissue motion in the orbit. 2002 , 21, 296-304	54
1835	A phase-based approach to the estimation of the optical flow field using spatial filtering. 2002 , 13, 1127-36	165
1834		
1833	Robust pan, tilt and zoom estimation.	7
1832	Detection and estimation of motion using adaptive grids.	1
1831	Nonparametric motion characterization using causal probabilistic models for video indexing and retrieval. 2002 , 11, 393-407	55
1830	The virtual time domain depth estimation of stereo-scopic sequence using optical flow.	
1829	High performance motion analysis for video restoration.	1
1828		1

1827 Motion texture	e: a new motion based video representation.	6
1826 Video matting (of complex scenes. 2002 ,	88
1825 Combining the	Advantages of Local and Global Optic Flow Methods. 2002 , 454-462	32
1824 Fast gradient m	nethods based global motion estimation for video compression.	3
1823 filter.	f improving accuracy of differential-based optical flow algorithm by spatio-temporal	
1822 Constrained str	ructure and motion estimation from optical flow.	3
1821 Estimating opti	ical flow using a global matching formulation and graduated optimization.	2
1820 Confidence me	asures for block matching motion estimation.	6
1819 Multiresolution	n moment filters.	
1818 Stable AGV cor	ridor navigation with fused vision-based control signals.	20
1817 Motion transpa	rency constraint equation based on a wavelet function decomposition.	0
1816 Accurate dense	e optical flow estimation using adaptive structure tensors and a parametric model.	
1815 Trainable video	orealistic speech animation. 2002 ,	79
1814 Accurate optica	al flow estimation using adaptive scale-space and 3D structure tensor.	2
1813 Video matting (of complex scenes. 2002 , 21, 243-248	119
1812 Trainable video	orealistic speech animation. 2002 , 21, 388-398	87
1811 Contribution to	o a marker-free system for human motion analysis. 2002 , 11, 381	1
1810 Gain fixed-patt	ern-noise correction via optical flow. 2002 ,	4

1809 Omnidirectional imaging and optical flow.	5
Semi-automatic image segmentation and object tracking framework for investigative and surveillance-oriented applications. 2002 , 4709, 25	
1807 USING OPTICAL FLOW TO CONTROL MOBILE ROBOT NAVIGATION. 2002 , 35, 193-198	О
1806 Optical snow and the aperture problem.	5
1805 Model-based face tracking for view-independent facial expression recognition.	40
1804 Video-based face motion measurement. 2002 , 30, 569-590	8
1803 . 2002 , 27, 79-99	60
1802 Introduction. 2002 , 1-8	5
1801 FFT based image registration. 2002 ,	9
1800 A unified prediction method for heterogeneous weather radar patterns.	1
1799 Vision-Augmented GNC: Passive Ranging from Image Flow. 2002 ,	4
1798 Fast obstacle detection for urban traffic situations. 2002 , 3, 173-181	61
1797 Meta-analysis of face recognition algorithms.	23
1796 Stereo tracking using ICP and normal flow constraint.	19
Magnetic resonance image segmentation and heart motion tracking with an active mesh based system.	1
1794 Real-time implementation of an optical flow algorithm.	25
Object-based video coding by global-to-local motion segmentation. 2002 , 12, 1106-1116	12
1792 Layered detection for multiple overlapping objects.	10

1791 Quantitative color optical flow.	20
1790 Motion analysis of echocardiograms using a local-affine, spatio-temporal model.	5
1789 A linear model for simultaneous estimation of 3D motion and depth.	4
$_{17}88$ Efficient global motion estimation for MPEG4 video compression.	
1787 .	
$_{17}86$ Two-frame multi-scale optical flow estimation using wavelet decomposition. 2002 ,	2
1785 Wavelet-based optical flow estimation. 2002 , 12, 1-12	14
$_{1784}$ Fast motion estimation using Bidirectional Gradient Methods. 2002 ,	3
1783 Match propagation for image-based modeling and rendering. 2002 , 24, 1140-1146	123
$_{17}8_{2}$ Integrated position estimation using aerial image sequences. 2002 , 24, 1-18	94
1781 Optical flow in log-mapped image plane - a new approach. 2002 , 24, 125-131	16
1780 Dense estimation of fluid flows. 2002 , 24, 365-380	212
1779 . 2002, 24, 402-412	369
1778 FPGA board for real time vision development systems.	3
1777 Gradient flow adaptive beamforming and signal separation in a miniature microphone array. 2	2002 , 4
$_{1776}$ Internal shearing within the hearing organ evoked by basilar membrane motion. 2002 , 22, 985	. 0-7 39
1775 Low-level feature extraction (including edge detection). 2002 , 99-160	3
1774 Advanced Nonrigid Registration Algorithms for Image Fusion. 2002 , 661-690	5

1773	4-D voting for matching, densification and segmentation into motion layers.		3
1772	Fast optical flow using 3D shortest path techniques. 2002 , 20, 981-991		37
1771	Spatial-Feature Parametric Clustering Applied to Motion-Based Segmentation in Camouflage. 2002 , 85, 144-157		4
1770	Range Flow Estimation. 2002 , 85, 209-231		42
1769	Dense Disparity Map Estimation Respecting Image Discontinuities: A PDE and Scale-Space Based Approach. 2002 , 13, 3-21		95
1768	Fast Panoramic Image Mosaicing Using One-dimensional Flow Estimation. 2002 , 8, 95-103		4
1767	An optimal control approach to optical flow computation. 2002 , 40, 231-240		16
1766	An efficient statistical method for subpixel optical flow detection. 2002 , 15, 169-176		4
1765	Super-resolution microscopy using normal flow decoding and geometric constraints. 2001 , 204, 136-49		9
1764	A multiresolution spatiotemporal motion segmentation technique for video sequences based on pyramidal structures. 2002 , 23, 1761-1769		3
1763	Robust motion estimation using spatial Gabor-like filters. 2002 , 82, 297-309		19
1762	Optimal projection of 2-D displacements for 3-D translational motion estimation. 2002 , 20, 793-804		5
1761	Detection of vehicles from traffic scenes using fuzzy integrals. 2002 , 35, 967-980		30
1760	Measuring the structure of dynamic visual signals. 2002 , 64, 131-146		66
1759	Trinocular Stereo: A Real-Time Algorithm and its Evaluation. <i>International Journal of Computer Vision</i> , 2002 , 47, 51-61	10.6	32
1758	Self-Calibration from Image Derivatives. International Journal of Computer Vision, 2002, 48, 91-114	10.6	7
1757	Optical Snow. International Journal of Computer Vision, 2003, 55, 55-71	10.6	10
1756	Two-Frame Motion Estimation Based on Polynomial Expansion. 2003 , 363-370		842

1755 A super-resolution method with EWA. 2003, 18, 822-832

1754 Segmentation and range sensing using a moving-aperture lens. 2003 , 15, 46-53	
1753 Recent developments in human motion analysis. 2003 , 36, 585-601	604
1752 A fast incremental approach for accurate measurement of the displacement field. 2003 , 21, 383-399	7
1751 Regularization of optical flow with M-band wavelet transform. 2003 , 45, 437-452	4
1750 Voting method for the detection of subpixel flow field. 2003 , 24, 197-214	5
Evaluation of global image thresholding for change detection. 2003 , 24, 2345-2356	251
1D and 2D Fourier-based approaches to numeric curvature estimation and their comparative performance assessment. 2003 , 13, 172-197	14
Analysis and comparison of two methods for the estimation of 3D motion parameters. 2003 , 45, 23-49	1
1746 Motion compensation using backward prediction and prediction refinement. 2003 , 18, 381-400	2
Motion estimation based on eigenvalue algorithm matching local image features. 2003 , 34, 63-72	1
1744 Image registration via level-set motion: applications to atlas-based segmentation. 2003 , 7, 1-20	140
1743 Elastic registration in the presence of intensity variations. 2003 , 22, 865-74	139
1742 Vision-based fusion system for smart airbag applications.	6
Robust optical flow estimation based on a sparse motion trajectory set. 2003 , 12, 431-45	23
1740 Vision-based vehicle detection and tracking method for forward collision warning in automobiles.	18
1739 Adaptive estimation of 3-D motion parameters and optical flow.	1
1738 Fast two-frame multiscale dense optical flow estimation using discrete wavelet filters. 2003 , 20, 1505-15	13

1737	Optimal Control Formulation for Determining Optical Flow. 2003 , 24, 818-847	58
1736	Recovering slant and angular velocity from a linear velocity field: modeling and psychophysics. 2003 , 43, 1753-64	11
1735	Motion analysis in the hemicochlea. 2003 , 85, 1929-37	19
1734	Layered 4D representation and voting for grouping from motion. 2003 , 25, 492-501	22
1733	Statistical cue integration in DAG deformable models. 2003 , 25, 801-813	22
1732	A condition number for point matching with application to registration and postregistration error estimation. 2003 , 25, 1437-1454	25
1731	Estimating piecewise-smooth optical flow with global matching and graduated optimization. 2003 , 25, 1625-1630	32
1730	On 3-D scene flow and structure recovery from multiview image sequences. 2003 , 33, 592-606	17
1729	Video object tracking with feedback of performance measures. 2003 , 13, 310-324	30
1728	Robust optical flow estimation using underwater color images. 2003,	8
1727	Fast gradient methods based on global motion estimation for video compression. 2003 , 13, 300-309	48
1726	Accuracy of Digital Image Correlation for Measuring Deformations in Transparent Media. 2003, 17, 88-96	78
1725	Bayesian clustering of optical flow fields. 2003,	9
1724	Motion estimation on driver video data.	
1723	Accurate dense optical flow estimation using adaptive structure tensors and a parametric model. 2003 , 12, 1170-80	26
1722	Enhancing silhouette-based human motion capture with 3D motion fields.	9
1721	Towards objective performance analysis for estimation of complex motion: analytic motion modeling, filter optimization, and test sequences.	
1720	A robust multiscale B-spline function decomposition for estimating motion transparency. 2003 , 12, 1416-26	11

1719 Fast obstacle detection using flow/depth constraint.	3
1718 One-dimensional dense disparity estimation for three-dimensional reconstruction. 2003 , 12, 1107-19	7
1717 A snake model for anatomic M-mode tracking in echocardiography.	2
High performance missing data detection and interpolation for video compression and restoration applications.	
Estimation of time-varying velocities of moving objects by time-frequency representations. 2003 , 12, 550-62	12
1714 Error-in-variables likelihood functions for motion estimation.	6
1713 Image-based rendering by joint view triangulation. 2003 , 13, 1051-1063	9
1712 Advanced framework for an error-resilient parameter analysis-synthesis system of facial animation.	
1711 Structure tensor-based motion field classification and optical flow estimation.	
1710 Homotopy-based computation of defocus blur and affine transform.	
1709 Robust real-time egomotion from stereo images.	6
1708 Multidisciplinary Research in Control. 2003,	
1707 Variable bandwidth QMDPE and its application in robust optical flow estimation. 2003 ,	11
1706 Variational stereovision and 3D scene flow estimation with statistical similarity measures. 2003 ,	21
1705 Space-time interest points. 2003 ,	704
1704 Efficiently synthesizing virtual video. 2003 , 13, 325-337	1
1703 Multiframe optical flow estimation with oriented smoothness in the direction of motion.	
A fast parametric motion estimation algorithm with illumination and lens distortion correction. 2003, 12, 395-408	60

1701 A multiscale technique for optical flow computation using piecewise affine approximation.	1
1700 A robot's spatial perception communicated via human touch.	1
1699 APPLYING FEATURE TRACKING TO PARTICLE IMAGE VELOCIMETRY. 2003 , 17, 487-504	13
1698 SUDDEN GLOBAL SPATIAL-TEMPORAL CHANGE DETECTION AND ITS APPLICATIONS. 2003 , 12, 845-856	5 0
1697 Interest Point Detection and Scale Selection in Space-Time. 2003 , 372-387	13
1696 Background models for tracking objects in water.	6
1695 Geometric Level Set Methods in Imaging, Vision, and Graphics. 2003,	263
1694 Robust Computer Vision. 2003 ,	19
1693 Bio-inspired flight control and visual search with CNN technology.	2
1692 Empirical choice of smoothing parameters in optical flow with correlated errors.	2
1691 Vision data fusion for target tracking. 2003 ,	1
Velocity and acceleration estimation in video sequences by the local polynomial periodogram. 2003 ,	2
1689 Robust optical flow estimation using B-spline image models. 2003,	1
$_{ m 1688}$ Optical flow estimation and segmentation through surface fitting and robust statistics.	
1687 A modified space frequency decomposition algorithm for visual motion. 2003 ,	
1686 Real-Time Optic Flow Computation with Variational Methods. 2003 , 222-229	30
1685 Mobile video stream monitoring system. 2003 ,	1
The lightspace change constraint equation (LCCE) with practical application to estimation of the projectivity+gain transformation between multiple pictures of the same subject matter.	

1683 Automatic video object segmentation via 3D structure tensor.	3
1682 Tracking bees - a 3D, outdoor small object environment.	4
1681 Estimation of complex motion from thermographic image sequences. 2003 ,	3
$_{1680}$ Optical flow estimation based on the extraction of motion patterns.	1
1679 Optical flow angular rate determination.	2
1678 Spatio-temporal view interpolation in real-time. 2003 ,	
1677 Motion Pattern-Based Video Classification and Retrieval. 2003 , 2003, 1	15
Measurements of cell-generated deformations on flexible substrata using correlation-based opt flow. 2003 , 361, 197-211	tical 50
FPGA implementation of Santos-Victor optical flow algorithm for real-time image processing: an useful attempt. 2003 , 5117, 23	3
1674 Robust Computation of Optical Flow using Orientation Code Matching 2003 , 123, 301-308	1
1673 Comparative study of motion estimation methods for spatio-temporal interpolation.	
Automatic motion correction for quantification of myocardial perfusion with dynamic magnetic resonance imaging. 2004 , 3, 105-17	6
1671 Distributed Computation of Optical Flow. 2004 , 380-387	2
1670 Adaptive visual object surveillance with continuously moving panning camera. 2004 ,	7
First-order and second-order motion: neurological evidence for neuroanatomically distinct system 2004, 144, 197-212	ems. 34
Informatics in radiology (infoRAD): NeatVision: visual programming for computer-aided diagnos applications. 2004 , 24, 1779-89	tic 6
Disambiguating visual motion through contextual feedback modulation. 2004 , 16, 2041-66	102
1666 A monocular image based intersection assistant.	7

1665	. 2004 , 3, 15-21	47
1664	Differentiation of discrete multidimensional signals. 2004 , 13, 496-508	119
1663	Fast motion estimation using bidirectional gradient methods. 2004 , 13, 1042-54	34
1662	Experience with 3D optical flow on gated MRI cardiac datasets.	6
1661	Performance of optical flow techniques for indoor navigation with a mobile robot. 2004,	29
1660	Motion estimation using dynamic programming with selective path search. 2004,	1
1659	Real-time motion estimation and visualization on graphics cards.	24
1658	Real-time and accurate segmentation of moving objects in dynamic scene. 2004 ,	27
1657	Regional requirements for Dishevelled signaling during Xenopus gastrulation: separable effects on blastopore closure, mesendoderm internalization and archenteron formation. 2004 , 131, 6195-209	62
1656	A Pipelined Real-Time Optical Flow Algorithm. 2004 , 372-380	5
1655	Camera motion and visual information fusion for 3D target tracking.	
1654	Convex set-based estimation of image flows. 2004,	
1653	Estimate large motions using reliability-based dynamic programming.	
1652	An adaptive scheme for estimating motion.	
1651	Benefits of temporal oversampling in optical flow estimation.	
1650	Multiple motion segmentation through a highly robust estimator.	
1649	A new motion estimation algorithm based on balanced multiwavelets vector transform.	
1648	Robust computation of optical flow field with large motion.	1

 $\,$ 1647 $\,$ A 3D facial combination model based on mesh resampling.

1646 Visual 3D target tracking for autonomous vehicles. 2004 ,	
Quantification Methods in Contrast Echocardiography. 2004 , 69-89	
1644 Adaptive Cross Correlation for Imaging Displacements in Soils. 2004 , 18, 46-57	64
1643 Galilean Differential Geometry of Moving Images. 2004 , 494-506	
16 ₄₂ A Probabilistic Approach to Large Displacement Optical Flow and Occlusion Detection. 2004 , 71-82	18
Entropy-based metrics for the analysis of partial and total occlusion in video object tracking. 2004 , 151, 487	3
A wavelet-based region of interest encoder for the compression of angiogram video sequences. 2004 , 8, 103-13	23
Omnidirectional Vision and Inertial Clues for Robot Navigation. 2004 , 21, 33-39	3
1638 Gradient-based approach for fine registration of panorama images. 2004 , 19, 691-697	3
1637 The MPMMAP algorithm for motion segmentation. 2004 , 95, 165-183	1
Combining 3D flow fields with silhouette-based human motion capture for immersive video. 2004 , 66, 333-351	14
1635 Computation of optical flow under non-uniform brightness variations. 2004 , 25, 885-892	7
Finding the focus of expansion and estimating range using optical flow images and a matched filter. 2004 , 15, 229-236	20
1633 Optical flow using textures. 2004 , 25, 449-457	9
1632 Tracking of regions-of-interest in myocardial contrast echocardiography. 2004 , 30, 303-9	27
1631 Motion estimation of transparent objects in the frequency domain. 2004 , 84, 709-719	9
Motion parameters estimation by new propagation approach and time f requency representations. 2004 , 19, 755-770	3

Motion estimation based on the direction of intensity gradient. 2004 , 22, 637-653	11
1628 Towards Bayesian real-time optical flow. 2004 , 22, 1051-1069	6
1627 A multiscale elastic registration scheme for retinal angiograms. 2004 , 95, 129-149	18
1626 Automatic quantification of microtubule dynamics.	10
1625 Multiple layer based background maintenance in complex environment.	4
1624 Evaluating certainties in image intensity differentation for optical flow.	1
1623 Real time visual control of two-axis robotic arm using motion estimation.	1
1622 3D head tracking based on recognition and interpolation using a time-of-flight depth sensor.	2
1621 Behavioral simulation results of the optical flow estimation algorithm for CADSP system design.	
1620 Mesh resampling alignment for 3D face morphable model.	
Non-rigid motion estimation using the robust tensor method. 2004 ,	10
1618 Generalized optical flow in the scale space.	
1617 A survey of motion-parallax-based 3-D reconstruction algorithms. 2004 , 34, 532-548	27
1616 Real time hardware vision system applications: optical flow and time to contact detector units.	4
1615 Fast and accurate facial pose estimation by aligning a 3D appearance model. 2004 ,	6
1614 Trainable videorealistic speech animation.	18
1613 . 2004 , 51, 864-884	12

1611 Gain fixed pattern noise correction via optical flow. 2004 , 51, 779-786	16
1610 Motion-based background subtraction using adaptive kernel density estimation.	234
1609 A survey on visual surveillance of object motion and behaviors. 2004 , 34, 334-352	1194
1608 .	1
1607 Efficient Computation of Optical Flow Using the Census Transform. 2004 , 79-86	68
$_{1606}$ Real-time detection of moving objects from moving vehicles using dense stereo and optical flow.	52
1605 Techniques for evaluating optical flow for visual odometry in extreme terrain.	27
1604 Multiresolution moment filters: theory and applications. 2004 , 13, 484-95	29
1603 Pattern Recognition. 2004 ,	8
1602 Progress in Pattern Recognition, Image Analysis and Applications. 2004 ,	3
1601 Cellular Multi-adaptive Analogic Computing: Algorithms for UAV Applications. 2004 ,	1
1600 A visual motion sensor based on the properties of V1 and MT neurons. 2004 , 44, 1733-55	46
1599 High Accuracy Optical Flow Estimation Based on a Theory for Warping. 2004 , 25-36	849
$_{1598}$ Measuring hearing organ vibration patterns with confocal microscopy and optical flow. 2004 , 86, 535-	-43 20
1597 Optimizing motion estimation with linear programming and detail-preserving variational method.	2
Computation of discontinuous optical flow fields based on spatiotemporal bilateral filtering. 2004 , 5308, 1325	
1595 Integrating color and motion to enhance human detection within aquatic environment.	
Automated 4D lung computed tomography reconstruction during free breathing for conformal radiation therapy. 2004 ,	2

1593	Vector field smoothing via heat flow. 2004 ,	2
1592	Active multispot projection for object tracking and recognition. 2004,	
1591	Spatio-Temporal Video Object Segmentation via Scale-Adaptive 3D Structure Tensor. 2004 , 2004, 1	6
1590	Interaction between High-Level and Low-Level Image Analysis for Semantic Video Object Extraction. 2004 , 2004, 1	17
1589	A new multiwavelets-based motion estimation.	
1588	Control System for MR-Guided Cryotherapy Short-Term Prediction of Therapy Boundary Using Automatic Segmentation and 3D Optical Flow 2004 , 542-550	1
1587	An accurate and adaptive optical flow estimation algorithm.	
1586	Optical flow and depth estimators of 3D moving objects via fuzzy adaptive algorithms. 2004 , 37, 285-290	
1585	Statistical and Deterministic Regularities: Utilization of Motion and Grouping in Biological and Artificial Visual Systems. 2004 , 131, 81-146	4
1584	Tree-Based Tracking of Temporal Image. 2005 , 322-331	
1583	Achieving efficient dense matching for uncalibrated images. 2005,	
1582	Mean field annealing for motion estimation in medical image sequences.	
1581	Discrete Orthogonal Decomposition and Variational Fluid Flow Estimation. 2005, 267-278	12
1580	Decision Fusion for Target Detection Using Multi-spectral Image Sequences from Moving Cameras. 2005 , 720-727	1
1579	Dealing with Multiple Motions in Optical Flow Estimation. 2005 , 52-59	
1578	A Study of the Yosemite Sequence Used as a Test Sequence for Estimation of Optical Flow. 2005 , 659-668	7
1577	A stochastic filter for fluid motion tracking. 2005 ,	7
1576	Tracking of LV Endocardial Surface on Real-Time Three-Dimensional Ultrasound with Optical Flow. 2005 , 434-445	9

1575	Dense optical flow by iterative local window registration. 2005,	26
1574	A Contrast Invariant Approach to Motion Estimation. 2005 , 242-253	4
1573	Foveated Vision Sensor and Image Processing 🖪 Review. 2005 , 57-98	3
1572	A biologically inspired method for estimating 2D high-speed translational motion. 2005 , 26, 2450-2462	6
1571	Accurate optical flow in noisy image sequences using flow adapted anisotropic diffusion. 2005 , 20, 537-553	15
1570	Robust motion estimation under varying illumination. 2005 , 23, 365-375	63
1569	Geodesic active regions and level set methods for motion estimation and tracking. 2005, 97, 259-282	101
1568	Accurate optical flow computation under non-uniform brightness variations. 2005, 97, 315-346	30
1567	Adaptive Grid Refinement Procedures for Efficient Optical Flow Computation. <i>International Journal of Computer Vision</i> , 2005 , 61, 31-54	10
1566	Lucas/Kanade Meets Horn/Schunck: Combining Local and Global Optic Flow Methods. <i>International Journal of Computer Vision</i> , 2005 , 61, 1-21	738
1565	Head Movements for Depth Perception: Praying Mantis versus Pigeon. 2005 , 18, 21-42	9
1564	Tracking quasi-stationary flow of weak fluorescent signals by adaptive multi-frame correlation. 2005 , 220, 150-67	58
1563	Mutual feedback scheme for face detection and tracking aimed at density estimation in demonstrations. 2005 , 152, 334	7
1562	3D velocity from 3D Doppler radial velocity. 2005 , 15, 189-198	2
1561	Displacement sensing and estimation theory and applications. 2005 , 80, 1265-1278	6
1560	Variational optical flow estimation for particle image velocimetry. <i>Experiments in Fluids</i> , 2005 , 38, 21-32 _{2.5}	101
1559	Adaptive robust estimation of affine parameters from block motion vectors. 2005 , 23, 1250-1263	16
1558	A deformable model for fingerprint matching. 2005 , 38, 95-103	112

1557	A contribution to vision-based autonomous helicopter flight in urban environments. 2005 , 50, 195-209		86
1556	On Space-Time Interest Points. International Journal of Computer Vision, 2005, 64, 107-123	10.6	1818
1555	On the Design of Filters for Gradient-Based Motion Estimation. 2005 , 23, 345-365		9
1554	Motion-Driven Segmentation by Competitive Neural Processing. 2005 , 22, 125-147		8
1553	. 2005,		56
1552	Non-rigid Registration Using Morphons. 2005 , 501-510		17
1551	Location and intensity discrimination in the leech local bend response quantified using optic flow and principal components analysis. 2005 , 93, 3560-72		21
1550	Dominant Plane Detection Using Optical Flow and Independent Component Analysis. 2005 , 497-506		1
1549	Approximating optical flow within the MPEG-2 compressed domain. 2005, 15, 103-107		21
1548	Local image structures and optic flow estimation. 2005 , 16, 341-56		6
1547	Moving object segmentation and detection for monocular robot based on active contour model. 2005 , 41, 1320		8
1546	Biologically motivated space-variant filtering for robust optic flow processing. 2005 , 16, 323-40		7
1545	Technology Evaluation of Fingerprint Verification Algorithms. 2005, 137-205		
1544	Four-dimensional cardiac imaging in living embryos via postacquisition synchronization of nongated slice sequences. 2005 , 10, 054001		115
1543	A ROBUST OPTICAL FLOW ESTIMATION UNDER VARYING ILLUMINATION. 2005 , 02, 303-313		
1542	Diffusion constructs in optical flow computation. 2005 , 14, 033008		
1541	Towards space. 2005 ,		7
1540	A robust motion estimation algorithm for PIV. 2005 , 16, 865-877		29

1539	Dense discontinuous optical flow via contour-based segmentation. 2005,	16
1538	Accurate optical flow estimation in noisy sequences by robust tensor-driven anisotropic diffusion. 2005 ,	
1537	Higher order polynomials, free form deformations and optical flow estimation. 2005,	O
1536	Dense motion field estimation using spatial filtering and quasi eigenfunction approximations. 2005,	O
1535	Ultrasound image compounding based on motion compensation. 2005 , 2005, 6445-8	2
1534	A Robust Visual Odometry and Precipice Detection System Using Consumer-grade Monocular Vision.	67
1533	Visual target tracking for autonomous vehicles with the optimal OOSM solution.	1
1532	Vision based autonomous vehicles target visual tracking with multiple dynamics models.	
1531	Optical flow estimation using temporally oversampled video. 2005 , 14, 1074-87	34
1530	Towards ultimate motion estimation: combining highest accuracy with real-time performance. 2005	63
1529	Mixtures of dynamic textures. 2005,	44
1528	Biologically plausible visual homing methods based on optical flow techniques. 2005 , 17, 47-89	90
1527	Sensor Fusion based 3D Target Visual Tracking for Autonomous Vehicles with IMM.	1
1526	Dynamic cardiac information from optical flow using four dimensional ultrasound. 2005, 2005, 4465-8	4
1525	Flow lookup and biological motion perception. 2005,	5
1524	Tracking small hand movements in interview situations. 2005,	2
1523	A real-time video mosaicking and target tracking system. 2005 , 5787, 146	
1522	Movement-induced motion signal distributions in outdoor scenes. 2005 , 16, 357-76	22

1521 Multimodal image registration with applications to image fusion. 2005 ,	6
1520 Discontinuity-Preserving Computation of Variational Optic Flow in Real-Time. 2005 , 279-290	13
1519 .	
$_{1518}$ Image-based spatio-temporal modeling and view interpolation of dynamic events. 2005 , 24, 240-261	62
1517 Detecting and Segmenting Motions by Matching Flows.	
1516 On the spatial statistics of optical flow. 2005 ,	57
1515 Time-to-Collision estimation from motion based on primate visual processing. 2005 , 27, 1279-91	15
1514 Three-dimensional scene flow. 2005 , 27, 475-480	180
Recursive estimation of 3D motion and surface structure from local affine flow parameters. 2005 , 27, 562-574	13
1512 A voting-based computational framework for visual motion analysis and interpretation. 2005 , 27, 739-5	2 23
1511 . 2005 , 35, 795-810	3
1510 Visual navigation of wheeled robots : compensating floor undulations.	
1509 . 2005 ,	43
1508 Scale Space and PDE Methods in Computer Vision. 2005 ,	9
1507 Graph-Based Representations in Pattern Recognition. 2005,	1
1506 An Optimal Optical Flow. 2005 , 44, 728-742	1
1505 Head nods analysis: interpretation of non verbal communication gestures. 2005 ,	9
1504 A quantitative comparison of 4 algorithms for recovering dense accurate depth.	

1503 Human posture recognition using active contours and radial basis function neural network.	10
1502 Biometric Gait Recognition. 2005, 19-42	66
1501 Featureless robot navigation using optical flow. 2005 , 17, 23-46	19
1500 Visual odometry based on locally planar ground assumption.	9
Reliable Tracking of Large Scale Dense Antiparallel Particle Motion for Fluorescence Live Cell Imaging.	2
Nearly automated left ventricular long axis tracking on real time three-dimensional echocardiographic data. 2005 ,	1
1497 Pixelwise-adaptive blind optical flow assuming nonstationary statistics. 2005 , 14, 222-30	3
Detection and tracking of moving objects from a moving platform in presence of strong parallax 2005 ,	. 13
1495 SIMD, SMP and MIMD-DM parallel approaches for real-time 2D image stabilization.	3
1494 Domain decomposition for variational optical-flow computation. 2005 , 14, 1125-37	13
Volumetric quantification of global and regional left ventricular function from real-time three-dimensional echocardiographic images. 2005 , 112, 1161-70	201
1492 Target tracking using the complex discrete wavelet transform based motion estimation method.	. 1
Real-time three-dimensional echocardiographic evaluation of global and regional left ventricular function. 2005 ,	-
1490 A Contour-Based Moving Object Detection and Tracking.	51
1489 Myocardial motion analysis from B-mode echocardiograms. 2005 , 14, 525-36	96
1488 Generalizing inverse perspective.	1
1487 Evaluating liveness by face images and the structure tensor.	62
Development of an experimental device of measurement of the thermomechanical behaviour of textile vascular prostheses. 2005 , 8, 149-150	

1485	•	27
1484	Spectrum analysis of motion parallax in a 3D cluttered scene and application to egomotion. 2005 , 22, 1717-31	O
1483	Image change detection algorithms: a systematic survey. 2005 , 14, 294-307	1063
1482	Optical Flow Calculation Using Data Fusion with Decentralized Information Filter.	1
1481	. 2005 , 7, 981-990	45
1480	Fast Motion Detection Based on Accumulative Optical Flow and Double Background Model. 2005 , 291-296	2
1479	Fixed Wing UAV Navigation and Control Through Integrated GNSS and Vision. 2005,	14
1478	2D Shape Measurement of Multiple Moving Objects by GMM Background Modeling and Optical Flow. 2005 , 789-795	3
1477	Modified GMM background modeling and optical flow for detection of moving objects.	28
1476	Optical flow techniques in biomimetic UAV vision.	3
1475	Variational optical flow computation in real time. 2005 , 14, 608-15	105
1474	Adaptive Structure Tensors and their Applications. 2006, 17-47	45
1473	Video Completion by Motion Field Transfer.	30
1472	Computer Vision ŒCCV 2006. 2006,	35
1471	Reconfigurable Computing: Architectures and Applications. 2006,	
1470	Bilateral Filtering-Based Optical Flow Estimation with Occlusion Detection. 2006, 211-224	85
1469	Variational Motion Segmentation with Level Sets. 2006 , 471-483	31
1468	Spatio-temporal motion segmentation and tracking under realistic condition.	5

Robust Moving Object Detection at Distance in the Visible Spectrum and Beyond Using A Moving Camera.	17
1466 Obstacle Avoidance for Unmanned Air Vehicles Using Image Feature Tracking. 2006 ,	33
1465 Reliable Detection of Overtaking Vehicles Using Robust Information Fusion. 2006 , 7, 401-414	42
$_{1464}$ Velocity selective filters recursively implemented in the spatiotemporal domain. 2006 , 15, 1601-9	8
1463 A CNN Implementation of the Horn & Schunck Motion Estimation Method. 2006 ,	
1462 Integrated Motion Detection and Tracking for Visual Surveillance. 2006 ,	15
1461 A neuromorphic depth-from-motion vision model with STDP adaptation. 2006 , 17, 482-95	19
1460 Performance of Optical Flow Techniques on Graphics Hardware. 2006 ,	6
1459 Video Sequence Stabilization for Real-Time Remote Sensing Applications. 2006 ,	1
$_{1458}$ Pre-processor for bioinspired optical flow models: a customizable hardware implementation.	3
1457 Specular Flow and the Recovery of Surface Structure.	36
1456 Recovery of Egomotion from Optical Flow with Large Motion Based on Subspace Method. 2006 ,	1
1455 Human action recognition using multi-view image sequences.	16
1454 . 2006 ,	1
1453 A direct frequency-based phase algorithm for motion estimation. 2006 ,	
1452 A GPU-based Algorithm for Estimating 3D Geometry and Motion in Near Real-time.	
1451 B-spline image model for energy minimization-based optical flow estimation. 2006 , 15, 3201-6	7
$_{1450}$ On the equivalence of variational and statistical differential motion estimation.	3

1449	Motion-Based Video Fusion Using Optical Flow Information. 2006 ,	2
1448	A discontinuity-preserving optical flow algorithm.	
1447	Fingerprint warping using ridge curve correspondences. 2006 , 28, 19-30	63
1446	Error analysis of robust optical flow estimation by least median of squares methods for the varying illumination model. 2006 , 28, 1418-35	17
1445	A real-time automated system for the recognition of human facial expressions. 2006 , 36, 96-105	185
1444	Non-Gaussian velocity distributions integrated over space, time, and scales. 2006 , 36, 482-93	13
1443	. 2006,	4
1442	Video Tracking: A Concise Survey. 2006 , 31, 520-529	69
1441	Color Optic Flow: A Computer Vision Approach for Object Detection on UAVs. 2006,	4
1440	Real-time Vision-based Object Tracking from a Moving Platform in the Air. 2006,	7
1439	FPGA-based real-time optical-flow system. 2006 , 16, 274-279	122
1438	. 2006,	3
1437	Robust Optic Flow Computation with Support Vector Regression. 2006,	
1436	Vehicle Detection and Tracking for Traffic Monitoring System. 2006,	11
1435	Robust Optical Flow with Combined Lucas-Kanade/Horn-Schunck and Automatic Neighborhood Selection. 2006 ,	8
1434	A Novel Method for Moving Object Detection in Intelligent Video Surveillance Systems. 2006,	7
1433	Lung motion correction on respiratory gated 3-D PET/CT images. 2006 , 25, 476-85	133
1432	On-road vehicle detection: a review. 2006 , 28, 694-711	645

1431 Stereo Analysis. **2006**, 115-132

1430	MODEL-BASED FACE MODELING AND TRACKING WITH APPLICATION TO VIDEOCONFERENCING. 2006 , 463-517	
1429	. 2006,	9
1428	Navigation biases compensation algorithm using the aerial image sequence. 2006,	
1427	Multisensor Network-Based Framework for Video Surveillance: Real-Time Superresolution Imaging. 631-647	
1426	Spatial and Fourier Error Minimization for Motion Estimation and Segmentation. 2006,	1
1425	Vector Fields Modelization Using Basis of Polynomials: Application to the Analysis of Simple Face Movements.	3
1424	. 2006,	5
1423	Tracking Magnetic Footpoints with the Magnetic Induction Equation. 2006 , 646, 1358-1391	124
1422	Optimal instantaneous rigid motion estimation insensitive to local minima. 2006 , 104, 77-86	7
1421	Optic flow estimation by support vector regression. 2006 , 19, 761-768	5
1420	Nonlinear structure tensors. 2006 , 24, 41-55	161
1419	Inverse perspective mapping and optic flow: A calibration method and a quantitative analysis. 2006 , 24, 153-165	27
1418	A system for rotational velocity computation from image sequences. 2006 , 24, 357-362	
1417	Medical image registration with partial data. 2006 , 10, 452-64	113
1416	Object tracking. ACM Computing Surveys, 2006, 38, 13	2787
1415	Highly Accurate Optic Flow Computation with Theoretically Justified Warping. <i>International Journal of Computer Vision</i> , 2006 , 67, 141-158	286
1414	Piecewise-Smooth Dense Optical Flow via Level Sets. <i>International Journal of Computer Vision</i> , 2006 , 68, 111-124	44

1413	Estimate Large Motions Using the Reliability-Based Motion Estimation Algorithm. <i>International Journal of Computer Vision</i> , 2006 , 68, 319-330	10.6	3
1412	A Multigrid Platform for Real-Time Motion Computation with Discontinuity-Preserving Variational Methods. <i>International Journal of Computer Vision</i> , 2006 , 70, 257-277	10.6	117
1411	A Super-Resolution Imaging Method Based on Dense Subpixel-Accurate Motion Fields. 2006 , 42, 79-89		4
1410	A New Parallel Differential Method for Optical Flow Estimation. 2006 , 26, 345-356		1
1409	Local visual homing by matched-filter descent in image distances. 2006 , 95, 413-30		82
1408	Fluid experimental flow estimation based on an optical-flow scheme. <i>Experiments in Fluids</i> , 2006 , 40, 80-97	2.5	145
1407	Measuring and quantifying dynamic visual signals in jumping spiders. 2006, 192, 785-97		36
1406	Dominant plane detection from optical flow for robot navigation. 2006 , 27, 1009-1021		28
1405	Tracking based motion segmentation under relaxed statistical assumptions. 2006, 101, 45-64		5
1404	A general method for human activity recognition in video. 2006 , 104, 232-248		105
1403	Subpixel motion computing architecture. 2006 , 153, 869		2
1402	Tracking of left ventricular long axis from real-time three-dimensional echocardiography using optical flow techniques. 2006 , 10, 174-81		40
1401	Automatic 3-D grayscale volume matching and shape analysis. 2006 , 10, 362-76		18
1400	Functional proteometrics for cell migration. 2006 , 69, 563-72		27
1399	Adaptive vs. non-adaptive strategies for the computation of optical flow. 2006 , 16, 35-50		1
1398	A Fast Modified Horn & Schunck Method. 2006,		
1397	Wall Motion Estimation for Gated Cardiac Emission Tomography: Physical Phantom Evaluation. 2006 ,		
1396	A General Framework and New Alignment Criterion for Dense Optical Flow.		2

1395 Motion Parallax without Motion Compensation in 3D Cluttered Scenes. 2006,

1394 Disparity Flow Estimation using Orthogonal Reliability-based Dynamic Programming. 2006 ,	1
1393 Dynamics Based Robust Motion Segmentation.	8
1392 Data Assimilation of Satellite Images Within an Oceanographic Circulation Model.	4
1391 Tracking endocardium using optical flow along iso-value curve. 2006 , 2006, 707-10	6
1390 A PDE-Based Method For Optical Flow Estimation. 2006 ,	1
A method for prediction and estimation of large-amplitude optical flows via extended Kalman filtering approach. 2006 , 23, 503-514	1
1388 A super-resolution method for spatio-temporal plasma diagnostics. 2006 , 48, 419-431	3
1387 Bilayer Segmentation of Live Video.	118
Reliability index of optical flow that considers error margin of matches and stabilizes camera movement estimation. 2006 ,	
1385 An efficient algorithm for computing optical flow. 2006 ,	
1384 Mathematical Models for Registration and Applications to Medical Imaging. 2006 ,	15
Automatic Water Eddy Detection in SST Maps Using Random Ellipse Fitting and Vectorial Fields for Image Segmentation. 2006 , 77-88	г 14
Superresolution reconstruction of a video captured by a vibrated time delay and integration camera. 2006 , 15, 023006	3
1381 Markovian segmentation and parameter estimation on graphics hardware. 2006 , 15, 033005	13
Comparing optical-flow based methods for quantification of myocardial deformations on RT3D ultrasound.	1
1379 An Algorithm for Optical Flow Computation Based on a Quasi-Interpolant Operator. 2006 , 2, 93-10	D6 2
1378 A Survey on Variational Optic Flow Methods for Small Displacements. 2006 , 103-136	43

1377 Multiscale Modeling and Constraints for Max-flow/Min-cut Problems in Computer Vision.	1
1376 Estimation of images and nonrigid deformations in gated emission CT. 2006 , 25, 1130-44	50
1375 Robust Diffusion Kernels for Optical Flowsmoothing. 2006 ,	
1374 Real-time moving obstacle detection using optical flow models.	34
Checkerboard-Type Filtering for a Low-Power Gradient-Based Optical Flow Estimation System 2006 ,	n.
1372 Extracting Static Hand Gestures in Dynamic Context. 2006 ,	
1371 P1D-6 Quantification of Rotational Tissue Motion in IVUS with Optical Flow Algorithm. 2006 ,	
1370 Optical-Flow Based on an Edge-Avoidance Procedure. 2006 ,	0
1369 Non-Rigid Registration for Automatic Fracture Segmentation. 2006 ,	7
A Maximum Likelihood Estimator for Choosing the Regularization Parameters in Global Optic Flow Methods. 2006 ,	cal 12
1367 Vision-based altitude and pitch estimation for ultra-light indoor microflyers.	8
MOTION FLOW ESTIMATION FROM IMAGE SEQUENCES WITH APPLICATIONS TO BIOLOGICA GROWTH AND MOTILITY. 2006 , 2006, 1245-1248	L
1365 MRF Modeling for Optical Flow Computation from Multi-Structure Objects. 2006 ,	1
1364 A Motion Estimation Method Based on Possibility Theory. 2006 ,	2
1363 Multiscale MSE-Minimizing Filters for Gradient-based Motion Estimation. 2006 ,	
1362 Fusion of stereo and optical flow data using occupancy grids. 2006 ,	9
1361 Optical flow analysis of the aurora borealis. 2006 , 3, 159-163	17
1360 Grid System for Satellite Data Processing. 2006 ,	1

1359 A Robust Video Object Tracking by	Using Active Contours.	5
1358 Discovery Science. 2006 ,		
1357 Performance analysis of a correlat	ion-based optical flow algorithm under noisy environments.	
1356 Real-time stereo and optical flow o	data fusion. 2006 ,	1
1355 A Minimum-Entropy Procedure for	Robust Motion Estimation. 2006 ,	8
Road Junction Background Recons 1354 Machines. 2006 ,	struction Based on Median Estimation and Support Vector	
1353 Fast cross correlation algorithm fo	or optical flow estimation. 2006 ,	4
VHDL-Based Simulation of a Parall 2006 ,	el Implementation of a Phase-Based Algorithm for Optical Flow.	1
Information Fusion Based on Option Problems. 2006 ,	cal Flow Field and Feature Extraction for Solving Registration	
1350 Highly Paralellized Architecture fo	r Image Motion Estimation. 2006 , 75-86	2
1349 Segmentation framework based or	n label field fusion. 2007 , 16, 2535-50	21
1348 Optical Flow Approximation of Sub	o-Pixel Accurate Block Matching for Video Coding. 2007 ,	5
1347 An Energy Minimisation Approach	to Attributed Graph Regularisation. 2007 , 71-86	
	AL WORLD IN MOTION: COMPUTING STRUCTURE FROM OURIER TRANSFORMATIONS. 2007 , 21, 2493-2504	2
Dense estimation of motion fields consistency. 2007 ,	on meteosat second generation images using a dynamical	
1344 A Bayesian algorithm for tracking I	multiple moving objects in outdoor surveillance video. 2007,	3
1343 Real time stabilization of long rang	ge observation system turbulent video. 2007 , 6496, 101	1
	messung von Kraftfahrzeugen Ber Grund (Image-based er Ground of Cars). 2007 , 74, 429-436	

1341 Cued Speech Gesture Recognition: A First Prototype Based on Early Reduction. 2007 , 2007, 1-19	
Two-frame frequency-based estimation of local motion parallax direction in 3D cluttered scenes. 2007 ,	
1339 Motion Detection by Using Entropy Image and Adaptive State-Labeling Technique. 2007 ,	7
1338 Research on User Applying Mode for Video Conference System. 2007 ,	2
Design and implementation of a built-in camera based user interface for mobile games. 2007 ,	6
1336 Image Pixel Force Fields and their Application for Color Map Vectorisation. 2007 ,	2
1335 Dense Multiscale Motion Extraction from Cardiac Cine MR Tagging using HARP Technology. 200 7	7. 7
1334 Rapid algorithm verification for cooperative analog-digital imaging systems. 2007 ,	
1333 An Adaptive Multi-Resolution Algorithm for Motion Estimation in Medical Image Sequences. 200	7,
1332 Human pose modelling and body tracking from monocular video sequences. 2007 ,	
1331 Probabilistic Confidence Measures for Block Matching Motion Estimation. 2007 , 17, 988-995	9
1330 A Rotational and Translational Image Stabilization System for Remotely Operated Robots. 2007 ,	1
1329 A Forward Model of Optic Flow for Detecting External Forces. 2007 ,	
1328 Complex Motion. 2007 ,	1
Temporal scaling of upper body motion for Sound feedback system of a dancing humanoid robot 2007 ,	t. 5
1326 Real-time Motion Region Detection and Contouring System. 2007 ,	
Non Rigid Object Tracking in Aerial Videos by Combined Snake and Optical flow Technique. 2007	', 1
1324 A Self-organizing Approach to Detection of Moving Patterns for Real-Time Applications. 2007 , 18	31-190 10

1323	A New Block Based Motion Estimation with True Region Motion Field. 2007,	О
1322	Illumination-Robust Variational Optical Flow with Photometric Invariants. 2007, 152-162	55
1321	New Image Processing Tools for Structural Dynamic Monitoring. 2007 , 347, 239-244	16
1320	Biomedical Image Sequence Analysis with Application to Automatic Quantitative Assessment of Facial Paralysis. 2007 , 2007, 1-11	8
1319	A Combined PMHT and IMM Approach to Multiple-Point Target Tracking in Infrared Image Sequence. 2007 , 2007, 1-14	O
1318	SwarmArt: Interactive Art from Swarm Intelligence. 2007 , 40, 248-254	31
1317	Interframe registration of IVUS images due to catheter rotation with feature-based optical flow. 2007 ,	1
1316	Real time lane detector hardware system. 2007,	
1315	Moving object segmentation based on optical flow field. 2007,	
1314	A new optical flow estimation method in joint EO/IR video surveillance. 2007,	1
1313	Fine grain pipeline systems for real-time motion and stereo-vision computation. 2007, 1, 60	4
1312	Better Flow Estimation from Color Images. 2007 , 2007,	O
1311	Edge Segment-Based Automatic Video Surveillance. 2007 , 2008,	2
1310	Adaptive Multiscale Optical Flowestimation. 2007,	
1309	The wavelet-based multi-resolution motion estimation using temporal aliasing detection. 2007,	
1308	A Multi-Resolution Mean Field Annealing Algorithm for Motion Estimation in Medical CT Image Sequences. 2007 ,	
1307	Location of innervation zone determined with multichannel surface electromyography using an optical flow technique. 2007 , 17, 549-55	30
1306	Detecting motion regions in presence of strong parallax from a moving camera by multi-view geometric constraints. 2007 , 29, 1627-41	69

1305	A fast biologically inspired algorithm for recurrent motion estimation. 2007 , 29, 246-60	29
1304	Space-time light field rendering. 2007 , 13, 697-710	6
1303	A Study on Predicting Hazard Factors for Safe Driving. 2007 , 54, 781-789	27
1302	Bottom-up spatiotemporal visual attention model for video analysis. 2007 , 1, 237	27
1301	Object Detection and Avoidance Using Optical Techniques in Uninhabited Aerial Vehicles. 2007,	2
1300	Real Time Architectures for Moving-Objects Tracking. 2007 , 365-372	2
1299	Reconfigurable Computing: Architectures, Tools and Applications. 2007,	1
1298	Model-Based Plane-Segmentation Using Optical Flow and Dominant Plane. 2007, 295-306	4
1297	Fall Detection from Human Shape and Motion History Using Video Surveillance. 2007,	181
1296	An Empirical Study on Estimating Motions in Video Stabilization. 2007,	6
1295	Estimation of multiple accelerated motions using chirp-Fourier transform and clustering. 2007 , 16, 142-52	10
1294	Uncertainty optimization for robust dynamic optical flow estimation. 2007,	9
1293	Optical Flow in Dynamic Graph Cuts. 2007,	
1292	Moving Object Detection for Real-Time Applications. 2007,	1
1291	A New Recursive Search with Multi Stage Approach for Fast Block Based True Motion Estimation. 2007 ,	
1290	The infinitesimal operator for the semigroup of the Frobenius-Perron operator from image sequence data: vector fields and transport barriers from movies. 2007 , 17, 023126	5
1289	Dynamically consistent optical flow estimation. 2007,	21
1288	. 2007,	266

1287	Advances in Brain, Vision, and Artificial Intelligence. 2007,	O
	Simultaneous estimation of optical flow and object state: A modified approach to optical flow calculation. 2007 ,	7
1285	A VGA 30-fps optical-flow processor core based on Pyramidal Lucas and Kanade algorithm. 2007 ,	
1284 .	. 2007 , 37, 39-51	8
1283	Optical flow estimator with multichannel integration. 2007,	
1282 .	. 2007,	1
1281	Optical Flow Computation on Compute Unified Device Architecture. 2007,	22
	Determination of Velocity and Skin Friction Fields from Images by Solving Projected Motion Equations. 2007 ,	3
1279	Lateral Driving Assistance Using Optical Flow and Scene Analysis. 2007,	8
1278	A Hierarchical Trajectory-Based Representation for Video. 2007 ,	
1277	An Accurate Image Registration Method Using a Projective Transformation Model. 2007,	2
1276 (Can Lucas-Kanade be used to estimate motion parallax in 3D cluttered scenes?. 2007 ,	
1275	Exposing Digital Forgeries in Interlaced and Deinterlaced Video. 2007 , 2, 438-449	96
1274	Corridor Navigation and Obstacle Avoidance using Visual Potential for Mobile Robot. 2007,	7
1273	A New Color Based Optical Flow Algorithm for Environment Mapping Using a Mobile Robot. 2007,	1
1272	. 2007,	
1271	FPGA-based architecture for motion sequence extraction. 2007 , 94, 435-450	5
1270	Discontinuity-Preserving Optical Flow Computation by a Dynamic Overdetermined System. 2007 ,	3

1269	Multimedia Approach for Traffic Noise Monitoring. 2007,	
1268	Motion Estimation Using a General Purpose Neural Network Simulator for Visual Attention. 2007,	
1267	Object Tracking by introducing Stochastic Filtering into Window-Matching Techniques. 2007,	
1266	. 2007,	
1265	Performance analysis of MIMO JT schemes based on energy effciency. 2007,	
1264	Applications of the Iterated Conditional Modes Algorithm for Motion Estimation in Medical Image Sequences. 2007 ,	
1263	About robust hypotheses generation and object validation in traffic scenes. 2007,	
1262	Visual Odometry for Velocity Estimation of UGVs. 2007,	5
1261	. 2007,	
1260	Vision-Based Multimodal Human Computer Interface Based on Parallel Tracking of Eye and Hand Motion. 2007 ,	15
1259	Real-time tracking and shape analysis of atrial septal defects in 3D echocardiography. 2007, 14, 1298-309	8
1258	An Optical Flow Based Electro-Optical See-and-Avoid System for UAVs. 2007,	5
1257	An optical flow based method for improved reconstruction of 4D CT data sets acquired during free breathing. 2007 , 34, 711-21	103
1256	Sensory Systems and Flight Stability: What do Insects Measure and Why?. 2007 , 34, 231-316	168
1255	Motion Estimation Using the Single-row Superposition-type Planar Compound-like Eye. 2007 , 7, 1047-1068	2
1254	Planar Fuel-Air-Ratio-LIF with Gasoline for Dynamic Mixture-Formation Investigations. 2007,	10
1253	An optical flow-based sensing system for reactive mobile robot navigation. 2007 , 18, 265-277	1
1252	Crowd motion capture. 2007 , 18, 361-370	38

1251	Robust multiscale algorithms for gradient-based motion estimation. 2007, 17, 333-340		2
1250	Real-time adaptive methods for treatment of mobile organs by MRI-controlled high-intensity focused ultrasound. 2007 , 57, 319-30		183
1249	Ultrasound motion estimation using a hierarchical feature weighting algorithm. 2007, 31, 178-90		13
1248	Image sequence inpainting: Towards numerical software for detection and removal of local missing data via motion estimation. 2007 , 198, 396-413		5
1247	Generalized optical flow in the scale space. 2007 , 105, 86-92		3
1246	Towards direct recovery of shape and motion parameters from image sequences. 2007 , 105, 145-165		2
1245	Experimental quantification of the plastic blunting process for stage II fatigue crack growth in one-phase metallic materials. 2007 , 23, 1763-1795		20
1244	Coarse to over-fine optical flow estimation. 2007 , 40, 2496-2503		44
1243	Using Fourier local magnitude in adaptive smoothness constraints in motion estimation. 2007 , 28, 1019-	1028	
1242	Multiscale MSE-minimizing filters for gradient-based motion estimation. <i>Measurement: Journal of the International Measurement Confederation</i> , 2007 , 40, 841-848	4.6	2
1241	Face recognition under variable pose and illumination conditions using 3D facial appearance models. 2007 , 38, 57-70		2
1240	Manipulating, Deforming and Animating Sampled Object Representations. 2007 , 26, 824-852		11
1239	Robust measurement of ocular torsion using iterative Lucas-Kanade. <i>Computer Methods and Programs in Biomedicine</i> , 2007 , 85, 238-46	5.9	8
1238	Comparison between different feature extraction techniques for audio-visual speech recognition. 2007 , 1, 7-20		12
1237	The design of a wireless real-time visual surveillance system. <i>Multimedia Tools and Applications</i> , 2007 , 33, 175-199	2.5	2
1236	On the Spatial Statistics of Optical Flow. <i>International Journal of Computer Vision</i> , 2007 , 74, 33-50	10.6	100
1235	Multi-View Stereo Reconstruction and Scene Flow Estimation with a Global Image-Based Matching Score. <i>International Journal of Computer Vision</i> , 2007 , 72, 179-193	10.6	173

1233	Disambiguating Visual Motion by Form-Motion Interaction Computational Model. <i>International Journal of Computer Vision</i> , 2007 , 72, 27-45	10.6	18
1232	Fixation as a Mechanism for Stabilization of Short Image Sequences. <i>International Journal of Computer Vision</i> , 2007 , 72, 67-78	10.6	3
1231	Symmetrical Dense Optical Flow Estimation with Occlusions Detection. <i>International Journal of Computer Vision</i> , 2007 , 75, 371-385	10.6	86
1230	3-D Depth Reconstruction from a Single Still Image. <i>International Journal of Computer Vision</i> , 2007 , 76, 53-69	10.6	343
1229	Discrete Orthogonal Decomposition and Variational Fluid Flow Estimation. 2007, 28, 67-80		69
1228	Active contours for video object tracking using region, boundary and shape information. 2007 , 1, 101-11	7	19
1227	Image registration based on virtual frame sequence analysis. 2007 , 2, 127-133		1
1226	Real-time stabilization of long range observation system turbulent video. <i>Journal of Real-Time Image Processing</i> , 2007 , 2, 11-22	1.9	31
1225	Change-driven data flow image processing architecture for optical flow computation. <i>Journal of Real-Time Image Processing</i> , 2007 , 2, 259-270	1.9	10
1224	Using quasi-continuous histograms for fuzzy main motion estimation in video sequence. 2007 , 158, 475-4	195	4
1223	A novel approach to photometric motion. 2007 , 25, 126-135		1
1222	A genetic algorithm for optical flow estimation. 2007 , 25, 141-147		12
1221	Handling occlusion in optical flow algorithms for object tracking. 2008 , 56, 733-742		8
1220	Multi-scale 3D scene flow from binocular stereo sequences. 2008 , 110, 75-90		23
1219	Superpipelined high-performance optical-flow computation architecture. 2008 , 112, 262-273		38
1218	Motion bias and structure distortion induced by intrinsic calibration errors. 2008 , 26, 639-646		3
1217	Extraction and temporal segmentation of multiple motion trajectories in human motion. 2008 , 26, 1621-	1635	9
1216	A fast accumulative motion orientation model based on integral image for video smoke detection.		155

1215	Sensor fusion-based visual target tracking for autonomous vehicles with the out-of-sequence measurements solution. 2008 , 56, 157-176		40
1214	Over-Parameterized Variational Optical Flow. <i>International Journal of Computer Vision</i> , 2008 , 76, 205-21 6 0.	6	88
1213	Shape from Specular Reflection and Optical Flow. <i>International Journal of Computer Vision</i> , 2008 , 80, 226-241	6	22
1212	Particle Video: Long-Range Motion Estimation Using Point Trajectories. <i>International Journal of Computer Vision</i> , 2008 , 80, 72-91	6	150
1211	A Variational Technique for Time Consistent Tracking of Curves and Motion. 2008, 31, 81-103		29
121 0	Guessing Tangents in Normal Flows. 2008 , 31, 195-205		2
1209	Micro-flow analysis by molecular tagging velocimetry and planar Raman-scattering. <i>Experiments in Fluids</i> , 2008 , 44, 419-430		21
1208	Double-pulse planar-LIF investigations using fluorescence motion analysis for mixture formation investigation. <i>Experiments in Fluids</i> , 2008 , 45, 583-593		3
1207	Sensor fusion-based visual target tracking for autonomous vehicles. 2008 , 12, 317-328		3
1206	Developmental changes of mechanics measured in the gerbil cochlea. 2008 , 9, 22-32		9
1205	Multigrid solution of the optical flow system using a combined diffusion- and curvature-based regularizer. 2008 , 15, 201-218		17
1204	Vision based data fusion for autonomous vehicles target tracking using interacting multiple dynamic models. 2008 , 109, 1-21		22
1203	Performance characterization in computer vision: A guide to best practices. 2008 , 109, 305-334		41
1202	Global parametric image alignment via high-order approximation. 2008 , 109, 244-259		5
1201	Narrow directional steerable filters in motion estimation. 2008 , 110, 192-211		9
1200	Motion representation using composite energy features. 2008, 41, 1110-1123		7
1199	A homotopy-based approach for computing defocus blur and affine transform simultaneously. 2008 , 41, 2263-2282		5
1198	Three-Dimensional Motion Estimation of Atmospheric Layers From Image Sequences. 2008 , 46, 2385-2396		27

(2008-2008)

1197	Motion Estimation Techniques to Automatically Track Oceanographic Thermal Structures in Multisensor Image Sequences. 2008 , 46, 2743-2762	22
1196	Lane-Change Decision Aid System Based on Motion-Driven Vehicle Tracking. 2008 , 57, 2736-2746	87
1195	Accuracy in prediction of catheter rotation in IVUS with feature-based optical flowa phantom study. 2008 , 12, 356-65	12
1194	Respiratory motion correction in 3-D PET data with advanced optical flow algorithms. 2008 , 27, 1164-75	133
1193	Image-based three-dimensional model reconstruction for Chinese treasurelladeite Cabbage with Insects. 2008 , 32, 682-694	0
1192	LANDING AN UNMANNED AIR VEHICLE: VISION BASED MOTION ESTIMATION AND NONLINEAR CONTROL. 2008 , 1, 128-145	167
1191	Independent component analysis of optical flow for robot navigation. 2008, 71, 2140-2163	7
1190	A self-organizing approach to background subtraction for visual surveillance applications. 2008 , 17, 1168-77	531
1189	Application of Matlab in Moving Object Detecting Algorithm. 2008,	1
1188	Infrared Techniques for Measuring Ocean Surface Processes. 2008 , 25, 307-326	27
1187	Artificial Evolution. 2008,	
1186	Central Processing of Visual Information in Insects. 2008, 131-203	16
1185	A study of sub-pixel interpolation algorithm in digital speckle correlation method. 2008,	
1184	A Comparison of Optical Flow algorithms for Real Time Aircraft Guidance and Navigation. 2008,	9
1183	Efficient encoding of natural optic flow. 2008 , 19, 183-212	9
1182	Hovering flight and vertical landing control of a VTOL Unmanned Aerial Vehicle using optical flow. 2008 ,	81
1181	A fast inverse consistent deformable image registration method based on symmetric optical flow computation. 2008 , 53, 6143-65	74
1180	Realtime phase-based optical flow on the GPU. 2008 ,	24

1179	Modelling fruit (micro)structures, why and how?. 2008 , 19, 59-66	63
1178	A framework for dense optical flow from multiple sparse hypotheses. 2008,	1
1177	Considerations in video playback design: using optic flow analysis to examine motion characteristics of live and computer-generated animation sequences. 2008 , 78, 455-63	8
1176	High resolution (400 m) motion characterization of sea ice using ERS-1 SAR imagery. 2008 , 52, 207-223	50
1175	Multi-resolution optical flow tracking algorithm based on multi-scale Harris corner points feature. 2008 ,	2
1174	Gradient - based optical flow for sub-pixel registration of speckle image sequences using a spatial/temporal postprocessing technique. 2008 ,	2
1173	Motion-blur-free camera system splitting exposure time. 2008 , 54, 981-986	15
1172	Modeling, clustering, and segmenting video with mixtures of dynamic textures. 2008 , 30, 909-26	276
1171	Homotopic image pseudo-invariants for openset object recognition and image retrieval. 2008 , 30, 1891-901	2
1170	Optical flow and advection on 2-Riemannian manifolds: a common framework. 2008 , 30, 1081-92	17
1169	Fast block flow tracking of atrial septal defects in 4D echocardiography. 2008, 12, 397-412	16
1168	Hardware accelerated implementation of wavelet transform for machine vision in road traffic monitoring system. 2008 ,	4
1167	Visual Navigation of Mobile Robot Using Optical Flow and Visual Potential Field. 2008, 412-426	7
1166	4-D Tensor Voting motion segmentation for obstacle detection in autonomous guided vehicle. 2008 ,	11
1165	3D facial geometry recovery via group-wise optical flow. 2008 ,	2
1164	High-Speed Action Recognition and Localization in Compressed Domain Videos. 2008, 18, 1006-1015	43
1163	Vision-assisted thermal monitoring system for CNC machine surveillance. 2008,	0
1162	Low Complexity Motion Model Analysis for Distributed Video Coding. 2008,	2

1161 . 2008 ,	1
1160 Moving object detection based on blob analysis. 2008 ,	4
1159 Multi technique face recognition using PCA/ICA with wavelet and Optical Flow. 2008 ,	
An Improved Algorithm of Human Skin Detection in Video Image Based on Linear Combination of 2-order Markov and Wiener Predictor. 2008 ,	1
Phase correlation pixel-to-pixel image co-registration based on optical flow and median shift propagation. 2008 , 29, 5943-5956	31
1156 . 2008 ,	3
A combined local-global optical flow approach for cranial ultrasonogram image sequence analysis. 2008 ,	O
1154 A robust slip estimation method for skid-steered mobile robots. 2008 ,	2
An optical flow sensor realized by retinal resistive network. 2008 ,	
1152 Dense linear-time correspondences for tracking. 2008 ,	2
1151 . 2008 ,	2
1150 Two Applications of Graph-Cuts to Image Processing. 2008,	6
1149 A stable optic-flow based method for tracking colonoscopy images. 2008 ,	1
1148 Learning Vision Algorithms for Real Mobile Robots with Genetic Programming. 2008,	
1147 ClearShot: Eavesdropping on Keyboard Input from Video. 2008 ,	51
1146 TED: A Texture-Edge Descriptor based on LBP for pedestrian detection. 2008 ,	5
Detecting deviations in visual path following for indoor environments. 2008 ,	3
1144 FPGA based Architecture for Robust Optical Flow Computation. 2008,	

1143	Automatic Video Classification: A Survey of the Literature. 2008 , 38, 416-430	138
1142	Vision-Based Tracking and Motion Estimation for Moving Targets Using Unmanned Air Vehicles. 2008 , 31, 907-917	58
1141	Review on vehicle detection based on video for traffic surveillance. 2008,	16
1140	Emotion recognition from facial expression using neural networks. 2008,	2
1139	AM-FM Demodulation Methods for Reconstruction, Analysis and Motion Estimation in Video signals. 2008 ,	4
1138	Motion from blur. 2008,	1
1137	Recursive photometric stereo when multiple shadows and highlights are present. 2008,	14
1136	Automatic Detection and Tracking of Maneuverable Birds in Videos. 2008,	6
1135	A Kind of Active Fortify Method of Moving Object Detection. 2008,	1
1134	A Robust Moving Object Detection Approach. 2008,	1
1133	TIME-TO-CONTACT INFORMATION ESTIMATION FOR MONOCULAR MOBILE ROBOTS. 2008, 05, 223-233	1
1132	Example based learning of image stitching for an omni-directional camera using a variational optical flow methodology. 2008 ,	2
1131	Research on Background Reconstruction Based on Prediction and Filtering. 2008,	1
1130	Experimental surface strain mapping of porcine peripapillary sclera due to elevations of intraocular pressure. 2008 , 130, 041017	28
1129	Moving objects detection for mobile mapping. 2008,	
1128	An empirical comparison of high definition video and regular video in optical flow computation. 2008 ,	
1127	Moving object tracking via one-dimensional optical flow using queue. 2008,	2
1126	System and algorithms for an autonomous observatory assisting the search for the Ivory-Billed Woodpecker. 2008 ,	1

1125 Probabilistic Exploitation of the Lucas and Kanade Smoothness Constraint. 2008, Optical flow robust estimation in a hybrid multi-resolution MRF framework. 2008, 1123 . 2008, Crowd behaviour monitoring on the escalator exits. 2008, 6 1121 Printer profiling for forensics and ballistics. 2008, 24 1120 A spatially recursive optical flow estimation framework using adaptive filtering. 2008, A design of mobile robot based on Network Camera and sound source localization for intelligent 1119 3 surveillance system. 2008, Human Motion. 2008, 16 1118 INDEPENDENT COMPONENTS OF OPTICAL FLOW IN A MULTIRESOLUTION IMAGE SEQUENCE. 1117 2 2008, 22, 929-944 1116 A Direct Frequency-based Phase Algorithm for Motion Estimation. 2008, Mathematical Methods in Signal Processing and Digital Image Analysis. 2008, 10 Fluid flow and optical flow. 2008, 614, 253-291 156 Exploiting correlations in projection-based image registration. 2008, 47, 077005 3 1112 Automated Surveillance of Intruders at US Borders. 2008, 231-236 Perception-motivated interpolation of image sequences. 2008, 18 1110 Optical flow estimation using Fourier Mellin Transform. 2008, 1109 Wavelet domain processing for trajectory extraction. 2008, 1108 Confidence based optical flow algorithm for high reliability. 2008,

1107 Vector field resampling using local streamline approximation. 2008,

A fast inverse consistent deformable image registration method based on symmetric optical flow computation. 2008 ,	1
Fluid motion estimation method based on physical properties of waves. 2008,	9
1104 An Approach for Vehicle Warning Based on Video Information in Transportation Surveillance. 2008 ,	O
1103 Estimation of Self-Motion for Gaze and Flight Stabilization in Flying Insects. 2008 , 55, 147-158	1
1102 In-plane micro-motion measurement with high accuracy based on computer microvision. 2008 ,	
Optical flow based volumetric spatio-temporal interpolation. 2008 , 2008, 3979-82	1
1100 Camera motion filtering and its applications. 2008,	
1099 Realtime Visual Tracking of Aircrafts. 2008,	11
1098 Applications for bio-inspired visual processing algorithms. 2008 ,	2
1097 Local grouping for optical flow. 2008 ,	1
1096 A Novel Motion Based Lip Feature Extraction for Lip-Reading. 2008,	14
1095 Lung tumor tracking in fluoroscopic video based on optical flow. 2008 , 35, 5351-9	50
1094 SmartBuckle. 2008 ,	32
1093 Automatic Human Behaviour Recognition and Explanation for CCTV Video Surveillance. 2008 , 21, 17	3-188 ₄
1092 Real-time turbulent video super-resolution using MPEG-4. 2008 ,	
1091 Precise differentiation can significantly improve the accuracy of optical flow measurements. 2008 ,	
1090 Optical flow processing for sub-pixel registration of speckle image sequences. 2008 ,	1

1089 A Test of Three Optical Flow Techniques IICT, DAVE, and NAVE. 2008, 689, 593-612	56
1088 Optical Speed Measurement and Applications. 2008,	
Spatial, Temporal, and Interchannel Image Data Fusion for Long-Distance Terrestrial Observation Systems. 2008 , 2008, 1-18	6
1086 Neuromorphic Configurable Architecture for Robust Motion Estimation. 2008 , 2008, 1-9	3
1085 A Recursive Fuzzy System for Efficient Digital Image Stabilization. 2008 , 2008, 1-8	4
1084 . 2009,	55
1083 . 2009,	296
1082 Parallel Processor for 3D Recovery from Optical Flow. 2009 , 2009, 1-11	
Optimized noninvasive monitoring of thermal changes on digital B-mode renal sonography during revascularization therapy. 2009 , 28, 1535-47	8
$_{ m 1080}$ A Retrograde Vehicle Detection Method Based on the Optical Flow Field. 2009 ,	
A Dense Point-to-Point Alignment Method for Realistic 3D Face Morphing and Animation. 2009 , 2009, 1-9	13
Noninvasive cardiac flow assessment using high speed magnetic resonance fluid motion tracking. 2009 , 4, e5688	11
1077 A Robust and Discontinuity-Preserving Approach to Optical Flow Estimation. 2009 ,	
1076 Towards macro- and micro-expression spotting in video using strain patterns. 2009 ,	56
SRAD and optical flow based external energy for echocardiograms with primitive shape priors. 2009 ,	1
1074 Variational layered dynamic textures. 2009,	13
1073 Block-matching-based CMOS optical flow sensor using only-nearest-neighbor computation. 2009 ,	4
1072 Mouth motion analysis with space-time interest points. 2009 ,	1

1071 Anomalous Event Detection Based on Self-Organizing Map for Supermarket Monitoring. 2009 ,	10
1070 Statistical Modeling of Optical Flow. 2009 ,	
1069 Regional image correspondence matching method for SIMD processing. 2009 ,	1
The impact of nonlinear filtering and confidence information on optical flow estimation in a Lucas $\&$ Kanade framework. 2009 ,	1
1067 Detection and tracking of high motion objects in arm robotics. 2009 ,	2
1066 Research on Moving Object Detecting and Shadow Removal. 2009,	1
Real-Time Dynamic Scene Analysis Using Differential Technique and Performance Evaluation with Optical Flow. 2009 ,	3
1064 Estimation of mobile robot ego-motion and obstacle depth detection by using optical flow. 2009 ,	1
1063 A VLSI system architecture for optical flow computation. 2009 ,	1
1062 Obstacle avoidance on a mobile inverted pendulum robot. 2009 ,	
1061 Stereo and Optical Flow Calculation Using Recursive Filter. 2009 ,	О
1060 Motion segmentation with occlusions on the superpixel graph. 2009,	20
1059 A CAPTCHA Implementation Based on 3D Animation. 2009 ,	9
Detection and Classification of Moving Objects by Using Real Time Traffic Flux through Differential and Graphical Analysis. 2009 ,	2
1057 Real-time Hand Gesture Recognition System Based on Q6455 DSP Board. 2009 ,	2
An effective flowestimation method with particle filter based on Helmholtz decomposition theorem. 2009,	
1055 Approach of moving objects detection in active video surveillance. 2009 ,	1

1053 Optical flow on a flapping wing robot. 2009 ,	11
1052 Moving Object Detection Based on Background Extraction. 2009 ,	5
1051 Motion vision based structure estimation in forest environment. 2009 ,	1
1050 Visual servoing of an autonomous Micro Air Vehicle for ground object tracking. 2009 ,	7
1049 A NONLINEAR FILTERING BASED OPTICAL FLOW COMPUTATION. 2009 , 09, 121-132	
1048 Smart video surveillance for airborne platforms. 2009 , 27, 749	6
1047 A fast quasi-dense matching algorithm with an adaptive window. 2009 ,	
Fusion of inertial, optical flow, and airspeed measurements for UAV navigation in GPS-denied environments. 2009 ,	8
1045 Bio-inspired robust optical flow processor system for VLSI implementation. 2009 , 45, 1304	10
Non-rigid alignment of multi-channel fluorescence microscopy images of live cells for improved classification of subcellular particle motion. 2009 ,	1
1043 Real Time Multiple Object Tracking Using Tracking Matrix. 2009 ,	1
1042 A Novel Method for Suppressing Shadow and Judging Pose Based on Projection Histogram. 2009 ,	
1041 . 2009,	1
1040 Visual Motion Models. 2009, 297-305	
1039 Recognizing child's emotional state in problem-solving child-machine interactions. 2009 ,	1
1038 Moving gradients. 2009 , 28, 1-11	84
1037 Moving gradients. 2009 ,	23
Development of Human Pose Analyzing Algorithms for the Determination of Construction Productivity in Real-Time. 2009 ,	25

A study of coronary artery rotational motion with dense scale-space optical flow in intravascular ultrasound. 2009 , 54, 1397-418	. 8
1034 Correlation-based particle filter for 3D object tracking. 2009 , 16, 165-177	3
Segment Tracking via a Spatiotemporal Linking Process including Feedback Stabilization in an n- Lattice Model. 2009 , 9, 9355-79	D 9
1032 Energy Minimization Methods in Computer Vision and Pattern Recognition. 2009 ,	1
1031 Robust models for optic flow coding in natural scenes inspired by insect biology. 2009 , 5, e10009	555 57
1030 Detection of mitoses in embryonic epithelia using motion field analysis. 2009 , 12, 151-163	1
DSP structure to motion computation on reconfigurable hardware. 2009 ,	
1028 Framework for Freeway Auto-Surveillance from Traffic Video. 2009 ,	
Application of Optical Flow and Methods of Group Lee Representation in Problems of Detecting Movements and Pattern Detection on the Images. 2009 , 147-149, 582-587	ı of
Automatic Detection of Disfluency Boundaries in Spontaneous Speech of Children Using	
Audio Visual Information. 2009 , 17, 2-12	9
	37
AudioWisual Information. 2009 , 17, 2-12	37
1026 Audio Visual Information. 2009 , 17, 2-12 1025 . 2009 , 3, 135-147	37 3, 176 8
Audio Visual Information. 2009, 17, 2-12 1025 . 2009, 3, 135-147 1024 Robust video stabilisation algorithm using feature point selection and delta optical flow. 2009, 3	37 3, 176 8
Audio Visual Information. 2009, 17, 2-12 1025 . 2009, 3, 135-147 1024 Robust video stabilisation algorithm using feature point selection and delta optical flow. 2009, 3 1023 Quantification of cardiomyocyte contraction based on image correlation analysis. 2009, 75, 298-	37 3, 176 8 308 41
Audio Visual Information. 2009, 17, 2-12 1025 . 2009, 3, 135-147 1024 Robust video stabilisation algorithm using feature point selection and delta optical flow. 2009, 3 1023 Quantification of cardiomyocyte contraction based on image correlation analysis. 2009, 75, 298- 1022 A matching method using edges with the rigid body assumption. 2009, 92, 28-33	37 3, 176 8 308 41
AudioWisual Information. 2009, 17, 2-12 1025 . 2009, 3, 135-147 1024 Robust video stabilisation algorithm using feature point selection and delta optical flow. 2009, 3 1023 Quantification of cardiomyocyte contraction based on image correlation analysis. 2009, 75, 298- 1022 A matching method using edges with the rigid body assumption. 2009, 92, 28-33 1021 Motion estimation based on optical flow and an artificial neural network (ANN). 2009, 14, 502-50	37 3, 176 8 308 41 05 2

1017	Le recalage en imagerie m⊞icale : de la conception □la validation. 2009 , 30, 60-71		6
1016	A Geometric Framework and a New Criterion in Optical Flow Modeling. 2009 , 33, 178-194		7
1015	Occlusion Boundaries from Motion: Low-Level Detection and Mid-Level Reasoning. <i>International Journal of Computer Vision</i> , 2009 , 82, 325-357	10.6	55
1014	A Robust hierarchical motion estimation algorithm in noisy image sequences in the bispectrum domain. 2009 , 3, 291-302		6
1013	Vehicle detection system design based on stereo vision sensors. 2009 , 10, 373-379		9
1012	An evaluation of optical flow algorithms for background oriented schlieren imaging. <i>Experiments in Fluids</i> , 2009 , 46, 467-476	2.5	108
1011	A synthetic Schlieren method for the measurement of the topography of a liquid interface. <i>Experiments in Fluids</i> , 2009 , 46, 1021-1036	2.5	136
1010	Local and global motion preferences in descending neurons of the fly. 2009 , 195, 1107-20		31
1009	Real-time exploration and photorealistic reconstruction of large natural environments. <i>Visual Computer</i> , 2009 , 25, 117-137	2.3	3
1008	Multimodality image registration with software: state-of-the-art. 2009 , 36 Suppl 1, S44-55		78
1007	In vivo skin elastography with high-definition optical videos. 2009 , 15, 271-82		18
1006	Network-Wide Traffic State Observation and Analysis Method Using Pseudo-Color Map. 2009 , 9, 46-52		8
1005	Region-based endocardium tracking on real-time three-dimensional ultrasound. 2009 , 35, 256-65		40
1004	Planar flow model identification for improved navigation of small AUVs. 2009, 36, 119-131		18
1003	Real-time moving object segmentation in H.264 compressed domain based on approximate reasoning. 2009 , 51, 99-114		16
1002	A simulation and estimation framework for intracellular dynamics and trafficking in video-microscopy and fluorescence imagery. 2009 , 13, 132-42		23
1001	Compensating for camera translation in video eye-movement recordings by tracking a representative landmark selected automatically by a genetic algorithm. 2009 , 176, 157-65		2
1000	High-speed target tracking by fuzzy hostility-induced segmentation of optical flow field. 2009 , 9, 126-1:	34	23

999	Real-time joint disparity and disparity flow estimation on programmable graphics hardware. 2009 , 113, 90-100	20
998	Discriminative optical flow tensor for video semantic analysis. 2009 , 113, 372-383	15
997	Motion estimation, segmentation and separation, using hypercomplex phase correlation, clustering techniques and graph-based optimization. 2009 , 113, 212-234	9
996	Optical-flow based on an edge-avoidance procedure. 2009 , 113, 511-531	8
995	A new energy-based method for 3D motion estimation of incompressible PIV flows. 2009 , 113, 802-810	12
994	Generalized least squares-based parametric motion estimation. 2009 , 113, 790-801	37
993	Non-intrusive liveness detection by face images. 2009 , 27, 233-244	138
992	Optic flow from unstable sequences through local velocity constancy maximization. 2009 , 27, 579-587	15
991	Continuous dimensionality characterization of image structures. 2009 , 27, 628-636	35
990	Nodal and modal strategies for longitudinal thermal diffusivity profile estimation: Application to the non destructive evaluation of SiC/SiC composites under uniaxial tensile tests. 2009 , 52, 1-13	21
989	A liveness detection method for face recognition based on optical flow field. 2009,	52
988	High-throughput quantification of root growth using a novel image-analysis tool. 2009 , 150, 1784-95	154
987	Adaptive frame selection for improved face recognition in low-resolution videos. 2009,	6
986	Moving Objects Detection in Birds Video Based on Multiple Block Matching. 2009 ,	1
985	Computer Vision-Based Human Body Segmentation and Posture Estimation. 2009, 39, 119-133	35
984	Vehicle Detection and Counting by Using Real Time Traffic Flux through Differential Technique and Performance Evaluation. 2009 ,	12
983	Fast-framing ballistic imaging of velocity in an aerated spray. 2009 , 34, 2748-50	30
982	A nonlinear terrain-following controller for a VTOL unmanned aerial vehicle using translational optical flow. 2009 ,	10

981	Motion Detection Based on Temporal Difference Method and Optical Flow field. 2009,	12
980	Reliability Analysis for Global Motion Estimation. 2009 , 16, 977-980	5
979	Estimation of motions in color image sequences using hypercomplex fourier transforms. 2009 , 18, 168-87	25
978	Statistical Learning and Pattern Analysis for Image and Video Processing. 2009,	20
977	Optimization Strategies for High-Performance Computing of Optical-Flow in General-Purpose Processors. 2009 , 19, 1475-1488	23
976	Estimation and analysis of urban traffic flow. 2009,	13
975	Real-Time Estimation Method of the Number of Pedestrians in Video Sequences. 2009,	
974	Low complexity dense motion estimation using phase correlation. 2009,	1
973	Analysis, comparison and improvement of block matching based sub-pixel motion measurement methods for image sequences. 2009 ,	Ο
972	Smart Surveillance System for Vehicles Using Mobile Phone Camera. 2009 ,	
972 971	Smart Surveillance System for Vehicles Using Mobile Phone Camera. 2009, . 2009, 47, 2478-2491	11
		11
971	. 2009 , 47, 2478-2491	11
971	. 2009, 47, 2478-2491 Localization of door handle using a single camera on a door opening mobile manipulator. 2009,	
971 970 969	. 2009, 47, 2478-2491 Localization of door handle using a single camera on a door opening mobile manipulator. 2009, Motion field and occlusion time estimation via alternate exposure flow. 2009,	2
971 970 969 968	. 2009, 47, 2478-2491 Localization of door handle using a single camera on a door opening mobile manipulator. 2009, Motion field and occlusion time estimation via alternate exposure flow. 2009, A general framework for Approximate Nearest Subspace search. 2009,	2
971 970 969 968	. 2009, 47, 2478-2491 Localization of door handle using a single camera on a door opening mobile manipulator. 2009, Motion field and occlusion time estimation via alternate exposure flow. 2009, A general framework for Approximate Nearest Subspace search. 2009, Trajectory Tree as an Object-Oriented Hierarchical Representation for Video. 2009, 19, 547-560	2

963 Tangent flow estimation based on 3-D gradient constraint. 2009,

962	Real Time Object Detection and Motion. 2009,	1
961	Bayesian selection of scaling laws for motion modeling in images. 2009,	9
960	Enhanced gradient-based motion vector coprocessor. 2009,	
959	Multigrid Methods for PDE Optimization. 2009 , 51, 361-395	111
958	A method of optical flow computation based on LUV color space. 2009 ,	1
957	Pedestrian detection: A benchmark. 2009 ,	584
956	Diffeomorphic demons: efficient non-parametric image registration. 2009 , 45, S61-72	935
955	Back Matter. 2009 , 235-286	
954	A stochastic filtering technique for fluid flow velocity fields tracking. 2009 , 31, 1278-93	26
953	Layered dynamic textures. 2009 , 31, 1862-79	50
952	Visual system based on artificial retina for motion detection. 2009 , 39, 752-62	15
951	A parallel mapping of optical flowto Compute Unified Device Architecture for motion-based image segmentation. 2009 ,	2
950	. 2009,	1
949	Vision-Based Obstacle Avoidance Using SIFT Features. 2009 , 550-557	10
948	Optic Flow to Steer and Avoid Collisions in 3D. 2009 , 73-86	31
947	Reduced order models for wake control with a spinning cylinder. <i>Journal of Physics: Conference Series</i> , 2009 , 166, 012016	1
946	An Object Detection Algorithm Based on the Cloud Model. 2009 ,	2

945 Deformable Templates. 181-200

944	Controlling the Display of Capsule Endoscopy Video for Diagnostic Assistance. 2009 , E92-D, 512-528	3
943	Data Mining Storm Attributes from Spatial Grids. 2009 , 26, 2353-2365	37
942	Optical Flow Active Contours with Primitive Shape Priors for Echocardiography. 2009 , 2010,	8
941	Position control of a quad-rotor UAV using vision *. 2010 , 43, 31-36	3
940	Stereoscopic Visual Attention-Based Regional Bit Allocation Optimization for Multiview Video Coding. 2010 , 2010,	8
939	Detection by collaborative intrinsic images and vertical projection histogram integration. 2010,	
938	Digital speckle correlation method based on wavelet transform using micro-displacement measurement. 2010 ,	1
937	Surveying and Pose Estimation of a Lander Using Approximative Crater Modelling. 2010,	2
936	Full Pixel Matching between Images for Non-linear Registration of Objects. 2010 , 2, 1-14	3
935	Comparison of myocardial motion estimation methods based on simulated echocardiographic B-mode and RF data. 2010 ,	3
934	An Ego-Motion Detection System Employing Directional-Edge-Based Motion Field Representations. 2010 , E93-D, 94-106	2
933	Virtual Vibration Measurement Using KLT Motion Tracking Algorithm. 2010 , 132,	21
932	Automatic free parking space detection by using motion stereo-based 3D reconstruction. 2010 , 21, 163-176	48
931	A compact harmonic code for early vision based on anisotropic frequency channels. 2010 , 114, 681-699	26
930	A modified model for the Lobula Giant Movement Detector and its FPGA implementation. 2010 , 114, 1238-1247	18
929	Photometric stereo with an arbitrary number of illuminants. 2010 , 114, 887-900	15
928	Watershed from propagated markers: An interactive method to morphological object segmentation in image sequences. 2010 , 28, 1491-1514	12

927	Mapping the spatiotemporal dynamics of calcium signaling in cellular neural networks using optical flow. 2010 , 38, 2520-31		8
926	Three 2D-warping schemes for visual robot navigation. 2010 , 29, 253-291		33
925	A terrain-following control approach for a VTOL Unmanned Aerial Vehicle using average optical flow. 2010 , 29, 381-399		34
924	A fuzzy spatial coherence-based approach to background/foreground separation for moving object detection. <i>Neural Computing and Applications</i> , 2010 , 19, 179-186	1.8	99
923	Vision without Frames: A Semiotic Paradigm of Event Based Computer Vision. 2010, 3, 1-16		1
922	Intelligent visual surveillance [A survey. 2010 , 8, 926-939		98
921	Motion processing with wide-field neurons in the retino-tecto-rotundal pathway. 2010 , 28, 47-64		3
920	Vision-based Position Control of a Two-rotor VTOL miniUAV. 2010 , 57, 49-64		11
919	A framework for unsupervised mesh based segmentation of moving objects. <i>Multimedia Tools and Applications</i> , 2010 , 50, 7-28	2.5	2
918	Video Fire Smoke Detection Using Motion and Color Features. 2010 , 46, 651-663		91
917	Continuous wavelet transform for time-varying motion extraction. 2010 , 4, 271		5
916	Mapping displacement and deformation of the heart with local sine-wave modeling. 2010 , 29, 1114-23		104
915	Vision of a Visipedia. 2010 , 98, 1526-1534		13
914	A model of neural mechanisms in monocular transparent motion perception. 2010 , 104, 71-83		5
913	Modelling the dynamics of motion integration with a new luminance-gated diffusion mechanism. 2010 , 50, 1676-92		27
912	Rapid motion correction in MR-guided high-intensity focused ultrasound heating using real-time ultrasound echo information. 2010 , 23, 1103-8		21
911	Application of optical flow method for imaging diagnostic in JET. 2010 , 400, 205-212		5
910	Block-based disparity estimation by partial finite ridgelet distortion search (PFRDS). 2010 , 48, 125-131		O

(2010-2010)

909	Fine grain pipeline architecture for high performance phase-based optical flow computation. 2010 , 56, 577-587	9
908	Motion estimation of tagged cardiac magnetic resonance images using variational techniques. 2010 , 34, 514-22	17
907	Estimation of the epipole using optical flow at antipodal points. 2010 , 114, 245-253	8
906	Illumination-robust variational optical flow using cross-correlation. 2010 , 114, 1104-1114	27
905	Smoothing of optical flow using robustified diffusion kernels. 2010 , 28, 1575-1589	12
904	Self-Localization of an Omnidirectional Mobile Robot Based on an Optical Flow Sensor. 2010 , 7, S172-S176	3
903	Assimilation of image sequences in numerical models. 2010 , 62, 30-47	25
902	Image Stabilization in Active Robot Vision. 2010 ,	5
901	Concentration measurement of injected gaseous fuel using quantitative schlieren and optical tomography. 2010 , 5,	8
900	Analysis of Arabidopsis thaliana root growth kinetics with high temporal and spatial resolution. 2010 , 105, 783-91	36
899	The Object Removal Detection Based on the Background Subtraction. 2010 , 29-32, 1188-1192	
898	Multiple moving objects detection and tracking based on optical flow in polar-log images. 2010,	5
897	A CAPTCHA Implementation Based on Moving Objects Recognition Problem. 2010,	12
896	Low-resolution vehicle tracking using dense and reduced local gradient features maps. 2010,	2
895	Towards optical flow-based robotic homing. 2010,	1
894	A Novel Method on Moving-Objects Detection Based on Background Subtraction and Three Frames Differencing. 2010 ,	7
893	Real time constrained motion estimation for ECG-gated cardiac MRI. 2010,	2
892	Deformable Registration for Re-Contouring and Phase Prediction in 4D CT[] 2010 ,	1

891	Robust processing of optical flow of fluids. 2010 , 19, 2332-44	20
890	Design and optimization of the moving object detecting system based on Blackfin DSP. 2010 ,	
889	Study on moving-objects detection technique in video surveillance system. 2010,	2
888	Multiphase joint segmentation-registration and object tracking for layered images. 2010 , 19, 1706-19	4
887	Image sequence segmentation based on the formal lattice Boltzmann equation and its lower order approximation. 2010 ,	1
886	Optical flow A combined local-global approach using L1 norm. 2010 ,	4
885	Object rigidity and reflectivity identification based on motion analysis. 2010,	3
884	Implicit Feature-Based Alignment System for Radiotherapy. 2010 ,	
883	Motion Estimation with Adaptive Regularization and Neighborhood Dependent Constraint. 2010,	
882	An Experimental Study of Image Components and Data Metrics for Illumination-Robust Variational Optical Flow. 2010 ,	1
881	Keypoint matching in stereo vision. 2010 ,	1
880	Moving object detection based on kirsch operator combined with Optical Flow. 2010,	2
879	The Movement Estimation of Target and Background by Fourier Phase Spectrum Difference. 2010,	
878	Facial Expression Recognition Based on Extended Optical Flow Constraint. 2010,	2
877	Optical Flow Analysis Based on Lattice Boltzmann Method and Lower Order Approximation with Relaxation Factors. 2010 ,	1
876	Human brain inspired still and moving image processing. 2010,	
875	Image tracking by window-matching techniques and stochastic filtering. 2010,	
874	Bio-inspired model for robust motion detection under noisy conditions. 2010 ,	2

(2010-2010)

873	Optical flow object detection, motion estimation, and tracking on moving vehicles using wavelet decompositions. 2010 ,	2
872	. 2010,	
871	Brightness-compensated 3-D optical flow algorithm for monitoring cochlear motion patterns. 2010 , 15, 056012	5
870	Combining content and context information fusion for video classification and retrieval. 2010,	1
869	. 2010,	
868	Event detection in video using motion analysis. 2010 ,	2
867	Automated gross and sub-pixel registration accuracy of visible and thermal imagery. 2010,	О
866	Goal seeking in honeybees: matching of optic flow snapshots?. 2010 , 213, 2913-23	58
865	Joint photometric registration and optical flowestimation. 2010,	
864	The landing problem of a VTOL Unmanned Aerial Vehicle on a moving platform using optical flow. 2010 ,	15
863	Echocardiographic particle image velocimetry: a novel technique for quantification of left ventricular blood vorticity pattern. 2010 , 23, 86-94	358
862	Detection of anomalous events in shipboard video using moving object segmentation and tracking. 2010 ,	1
861	Consistent optical flow for stereo video. 2010 ,	1
860	Variational model for robust computation of optical flow under varying illumination. 2010,	
859	Color optical flow estimation based on gradient fields with extended constraints. 2010,	2
858	Technical note: DIRARTA software suite for deformable image registration and adaptive radiotherapy research. 2011 , 38, 67-77	70
857	A motion estimation refinement framework for real-time tissue axial strain estimation with freehand ultrasound. 2010 , 57, 1943-51	11
856	Secrets of optical flow estimation and their principles. 2010 ,	707

855 Probabilistic Framework for Feature-Point Matching. **2010**,

854	Evaluation of motion analysis on synthetic and real-world image sequences. 2010 ,	1
853	Motion Detection Based on Biological Correlation Model. 2010 , 214-221	1
852	Moving-object segmentation using a foreground history map. 2010 , 27, 180-7	5
851	The structure of multiplicative motions in natural imagery. 2010 , 32, 1310-6	5
850	A VLSI Architecture and Algorithm for Lucas Ranade-Based Optical Flow Computation. 2010, 18, 29-38	32
849	High-Performance Optical-Flow Architecture Based on a Multi-Scale, Multi-Orientation Phase-Based Model. 2010 , 20, 1797-1807	16
848	Robust Bioinspired Architecture for Optical-Flow Computation. 2010 , 18, 616-629	63
847	Range flow in varying illumination: algorithms and comparisons. 2010 , 32, 1646-58	7
846	Combined region and motion-based 3D tracking of rigid and articulated objects. 2010 , 32, 402-15	93
845	A novel adaptive motion detection based on k-means clustering. 2010 ,	1
844	MAV navigation through indoor corridors using optical flow. 2010 ,	103
843	Computational Intelligence Methods for Bioinformatics and Biostatistics. 2010,	1
842	Image Analysis and Recognition. 2010 ,	3
841	A general optical flow based terrain-following strategy for a VTOL UAV using multiple views. 2010 ,	5
840	Motion tuned spatio-temporal quality assessment of natural videos. 2010 , 19, 335-50	463
839	Four-dimensional deformable image registration using trajectory modeling. 2010 , 55, 305-27	170
838	Physics-Based Optical Flow Method in Global Flow Diagnostics. 2010 ,	1

837	Anti-spoofing system for RFID access control combining with face recogntion. 2010,	1
836	. 2010,	2
835	Bi-directional optical flow for improving motion compensation. 2010 ,	14
834	Comparison of supervised and unsupervised learning classifiers for human posture recognition. 2010 ,	14
833	Ground-plane classification for robot navigation: Combining multiple cues toward a visual-based learning system. 2010 ,	1
832	Dense photometric stereo reconstruction on many core GPUs. 2010 ,	1
831	PLL Powered, Real-Time Visual Motion Tracking. 2010 , 20, 632-646	4
830	Categorization of Human Movement Based on Rule-Based Classifier. 2010 ,	1
829	Real-time traffic vehicle tracking based on improved MoG background extraction and motion segmentation. 2010 ,	4
828	Moving Object Segmentation and Tracking Using Active Contour and Color Classification Models. 2010 ,	1
827	Myocardial motion analysis using optical flow and wavelet decomposition. 2010,	1
826	An enhanced light adaptability algorithm on dynamic background reconstruction. 2010,	
825	The City of Sights: Design, construction, and measurement of an Augmented Reality stage set. 2010 ,	15
824	Moving Object Detection based on Clausius Entropy. 2010 ,	2
823	Fast probabilisitic estimation of egomotion from image intensities. 2010,	
822	A Multi-Scale Phase-Based Optical Flow Method for Motion Tracking of Left Ventricle. 2010 ,	5
821	Tracking with local spatio-temporal motion patterns in extremely crowded scenes. 2010,	48
820	Entropy-based action features selection using histogram intersection kernel. 2010,	

819 Reconstruction of three-dimensional objects using video sequences. 2010,

818	Bootstrap resampling for image registration uncertainty estimation without ground truth. 2010 , 19, 64-73	67
817	Segmenting video into classes of algorithm-suitability. 2010 ,	14
816	Super-resolution image construction from high-speed camera sequences. 2010 ,	1
815	Pipelined Hardware Architecture for High-Speed Optical Flow Estimation Using FPGA. 2010,	2
814	Abnormal behavior detection using a novel behavior representation. 2010,	1
813	Video Denoising Based on a Spatiotemporal Gaussian Scale Mixture Model. 2010 , 20, 1032-1040	59
812	Robust optical flow for Driver Assistance. 2010 ,	1
811	On improving the robustness of differential optical flow. 2011 ,	3
810	Barcode-Assisted Planar Object Tracking Method for Mobile Augmented Reality. 2011,	4
809	Automatic feature classification for object detection based on motion analysis. 2011,	1
808	Orientation histogram of SIFT displacement for recognizing actions in broadcast videos. 2011 ,	2
807	A deformation and lighting insensitive metric for face recognition based on dense correspondences. 2011 ,	6
806	Fuzzy control for obstacle avoiding in mobile robots using stereo vision algorithms. 2011 ,	4
805	Motion analysis for capsule endoscopy video segmentation. 2011 ,	2
804	Vehicle forecast track based on virtual detector. 2011 ,	1
803	Topological localization using optical flow descriptors. 2011,	3
802	A robust method for vector field learning with application to mismatch removing. 2011 ,	55

801 Moving object detection based on T-test combined with kirsch operator. **2011**,

800	Soccer Ball Speed Estimation Using Optical Flow for Humanoid Soccer Player. 2011 ,		
799	Guiding optical flow estimation using superpixels. 2011,		2
798	Approximate ground truth in the real world for testing optical flow algorithms. 2011,		
797	A confidence measure for assessing optical flow accuracy in the absence of ground truth. 2011,		
796	An autonomous robot navigation system based on optical flow. 2011 ,		
795	Accurate Motion Detection in Dynamic Scenes Based on Ego-Motion Estimation and Optical Flow Segmentation Combined Method. 2011 ,		3
794	Single-Photon Tracking for High-Speed Vision. 2018 , 18,		20
793	A passive camera based determination of a non-cooperative and unknown satellite's pose and shape. 2018 , 151, 805-817		11
792	Detection clone an object movement using an optical flow approach. 2018 ,		19
791	A framework for developing and benchmarking sampling and denoising algorithms for Monte Carlo rendering. <i>Visual Computer</i> , 2018 , 34, 765-778	2.3	1
790	A novel algorithm for ocean wave direction inversion from X-band radar images based on optical flow method. 2018 , 37, 88-93		3
789	Left ventricular MRI wall motion assessment by monogenic signal amplitude image computation. 2018 , 54, 109-118		3
788	Bayesian optical flow with uncertainty quantification. 2018 , 34, 105008		5
787	Long-term Tracking Based on Deep Learning. 2018 ,		
786	Matlab programmed method for the optical flow estimation based on the integral image. 2018,		O
785	Automatic Quadcopter Control Avoiding Obstacle Using Camera with Integrated Ultrasonic Sensor. Journal of Physics: Conference Series, 2018, 1011, 012046	0.3	4
784	Market basket analysis from egocentric videos. 2018 , 112, 83-90		6

783	Robust vehicle detection in different weather conditions: Using MIPM. 2018 , 13, e0191355		11
782	KRMARO: Aerial Detection of Small-Size Ground Moving Objects Using Kinematic Regularization and Matrix Rank Optimization. 2019 , 29, 1672-1686		8
781	Detecting interaction/complexity within crowd movements using braid entropy. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019 , 20, 849-861	2.2	3
780	Exploiting Flow Dynamics for Superresolution in Contrast-Enhanced Ultrasound. 2019 , 66, 1573-1586		13
779	Unjamming overcomes kinetic and proliferation arrest in terminally differentiated cells and promotes collective motility of carcinoma. 2019 , 18, 1252-1263		63
778	Computer Methods for Automatic Locomotion and Gesture Tracking in Mice and Small Animals for Neuroscience Applications: A Survey. 2019 , 19,		8
777	A New Visual Interface for Searching and Navigating Slide-Based Lecture Videos. 2019,		2
776	A Correlation Filter Target Tracking Algorithm Combining LK Optical Flow. 2019 ,		
775	Vehicle target detection in complex scenes based on YOLOv3 algorithm. 2019 , 569, 052018		3
774	Application of Improved VIBE Algorithm in Robot Grabbing System Based on Visual Servo. 2019,		
773	Pavilion: Bridging Photo-Realism and Robotics. 2019 ,		0
772	Automatic detection of objects on star sky images by using the convolutional neural network. Journal of Physics: Conference Series, 2019, 1236, 012066	0.3	6
771	Fast motion estimation algorithm based on geometric wavelet transform. 2019 , 17, 1950018		2
770	Detection of Small Anomalies on Moving Background. 2019,		
769	Research of multi-object detection and tracking using machine learning based on knowledge for video surveillance system. 2019 , 1		2
768	Two-Pass Bi-Directional Optical Flow Via Motion Vector Refinement. 2019,		O
767	100-kHz rate Rayleigh Imaging for Combustion and Flow Diagnostics. 2019,		
766	Cardiovascular magnetic resonance imaging feature tracking: Impact of training on observer performance and reproducibility. 2019 , 14, e0210127		15

765	Wheelchair Control Based on Facial Gesture Recognition. 2019 , 12, 104-122	1
764	Tagging wearable accelerometers in camera frames through information translation between vision sensors and accelerometers. 2019 ,	
763	Walking behavior of pedestrian social groups on stairs: A field study. 2019 , 117, 447-457	33
762	Super-resolution Using Flow Estimation in Contrast Enhanced Ultrasound Imaging. 2019,	
761	GPU Based Horn-Schunck Method to Estimate Optical Flow and Occlusion. 2019, 424-437	О
760	Color Correction and Depth-Based Hierarchical Hole Filling in Free Viewpoint Generation. 2019 , 65, 294-307	3
759	Vehicle Detection, Tracking and Counting on M4 Motorway Pakistan. 2019 , 414-425	
75 ⁸	In-depth analysis of high-speed, cold neutron imaging of air-water two-phase flows. <i>Flow Measurement and Instrumentation</i> , 2019 , 66, 182-189	8
757	KalmanFlow 2.0: Efficient Video Optical Flow Estimation via Context-Aware Kalman Filtering. 2019 , 28, 4233-4246	6
756	Motion Estimation by Hybrid Optical Flow Technology for UAV Landing in an Unvisited Area. 2019 , 19,	13
755	Advances in Computer Vision-Based Civil Infrastructure Inspection and Monitoring. 2019, 5, 199-222	251
754	Networks of innovation: the sociotechnical assemblage of tabletop computing. 2019 , 1, 100001	7
753	On the Nonlinear Statistics of Optical Flow. 2019 , 151-165	
752	A Fusion Approach for Multi-Frame Optical Flow Estimation. 2019 ,	26
75 ¹	Spatio-Temporal Feature Extraction/Recognition in Videos Based on Energy Optimization. 2019 , 28, 3395-3407	1
75 ⁰	A hybrid block-based motion estimation algorithm using JAYA for video coding techniques. 2019 , 88, 160-171	8
749	On the Integration of Optical Flow and Action Recognition. 2019 , 281-297	18
748	A classification method based on optical flow for violence detection. 2019 , 127, 121-127	20

747	GIF2Video: Color Dequantization and Temporal Interpolation of GIF Images. 2019,	4
746	An Intelligent Human Fall Detection System Using a Vision-Based Strategy. 2019 ,	2
745	Rapid and Precise Millimeter-wave Radar Simulation for ADAS Virtual Assessment. 2019,	4
744	Structural Feature Transfer Crossing Categories for Online Comments Based on Public Feature Space. 2019 ,	
743	Research on Method of Phantom Track Generation Based on Cooperative Control of UAVs. 2019,	
742	Solving Course Timetabling Problem Based on the Edge Coloring Methodology by Using Jedite. 2019 ,	2
741	Effect of Tariff on Commercial Load Profile Optimization in Presence of the Battery. 2019,	2
740	Analysis of stochastic Schottky barrier variations within printed high frequency rectifiers for harmonics generation. 2019 ,	2
739	Optical Flow Based Solar Irradiance Forecasting in Satellite Images. 2019,	1
738	Investigating The Effect of Environmental Parameters On The Reliability Of Power Supplies For Induction Heating Techologies. 2019 ,	Ο
737	Meyotl: A Web-App Prototype for the Geolocation of People with Cognitive Impairment. 2019,	0
736	EDOC 2019 Doctoral Consortium Organizers. 2019 ,	
735	On Understanding Degradation Kinetics of Pharmaceutic Gelatin Matrices for Precision Medicine: A Deep Learning Approach. 2019 ,	0
734	Quadratic Video Interpolation for VTSR Challenge. 2019,	4
733	Vision-based Human Action Recognition on Pre-trained AlexNet. 2019 ,	2
732	Influence of Artificial Pollutants on Disc Insulators under Dry and Wet Conditions on Leakage Current and Flashover Voltage. 2019 ,	1
731	Systematic benchmarking for reproducibility of computer vision algorithms for real-time systems: The example of optic flow estimation. 2019 ,	
730	. 2019,	80

729 Multi-information Fusion Algorithm for Human Target Tracking. **2019**,

728	Background Modeling Algorithm for Multi-feature Fusion. 2019 ,		1
/20			1
727	Linearized Multi-Sampling for Differentiable Image Transformation. 2019,		8
726	A Storage Reliability Evaluation Method of Plastic Package EEPROM Based on ADT And Physical Analysis. 2019 ,		1
725	A Method of Making Video Trailer Based on Artificial Intelligence. <i>Journal of Physics: Conference Series</i> , 2019 , 1314, 012152	0.3	1
724	A review of several key techniques of target vision tracking in complex scenes. <i>Journal of Physics:</i> Conference Series, 2019 , 1345, 022041	0.3	
723	Time-Delay Estimation for Self-Interference Cancellation in LTE-A/5G Transceivers. 2019,		1
722	Water Production System with Peltier Element and Photovoltaic Cell. 2019,		1
721	SAIL-VOS: Semantic Amodal Instance Level Video Object Segmentation [A Synthetic Dataset and Baselines. 2019 ,		22
720	Fusing Optical Flow and Inertial Data for UAV Motion Estimation in GPS-denied Environment. 2019,		О
719	Regexes are Hard: Decision-Making, Difficulties, and Risks in Programming Regular Expressions. 2019 ,		10
718	SR Domain Partitioning in Segment Routed SDNs. 2019 ,		2
717	. 2019,		
716	Moving Object Detection by Patch Dividing through Low-Rank Framework. 2019 ,		
715	. 2019,		11
714	Shearlet-Based Light Field Reconstruction of Scenes with Non-Lambertian Properties. 2019 ,		O
713	Detection of Astronauts peech and Language Disorder Signs during Space Missions using Natural Language Processing Techniques. 2019 ,		О
712	. 2019,		2

711	Active Player Detection in Handball Videos Using Optical Flow and STIPs Based Measures. 2019,	2
710	Classification and segmentation approach for detecting moving object in road applications. 2019,	1
709	Artillery Gun Recoil Measurement Using High-Speed Imaging and Image Processing Technique. 2019 ,	
708	An Indoor and Outdoor Navigation System for Visually Impaired People. <i>IEEE Access</i> , 2019 , 7, 170406-179,4518	20
707	A novel particle tracking velocimetry method for complex granular flow field. 2019 , 29, 014207	4
706	Consistent estimation of rotational optical flow in real environments using a biologically-inspired vision algorithm on embedded hardware. 2019 , 92, 103814	4
705	Sampling/Importance Resampling for Semantically Consistent Synthetic to Real Image Domain Adaptation in Urban Traffic Scenes. 2019 ,	О
704	Frugal following. 2019 ,	13
703	The ParallelEye Dataset: A Large Collection of Virtual Images for Traffic Vision Research. 2019 , 20, 2072-2084	21
702	A survey of variational and CNN-based optical flow techniques. 2019 , 72, 9-24	46
702 701	A survey of variational and CNN-based optical flow techniques. 2019 , 72, 9-24 Hardware efficient block matching algorithm based on modified differential evolution optimization for fast motion estimation. 2019 , 100, 389-404	1
	Hardware efficient block matching algorithm based on modified differential evolution optimization	
701	Hardware efficient block matching algorithm based on modified differential evolution optimization for fast motion estimation. 2019 , 100, 389-404 A vague set approach for identifying shot transition in videos using multiple feature amalgamation.	1
701 700	Hardware efficient block matching algorithm based on modified differential evolution optimization for fast motion estimation. 2019 , 100, 389-404 A vague set approach for identifying shot transition in videos using multiple feature amalgamation. 2019 , 75, 633-651 Simultaneous Species Concentration and Flow Velocity Imaging Using 2D Raman Scattering at	1 5
701 700 699	Hardware efficient block matching algorithm based on modified differential evolution optimization for fast motion estimation. 2019, 100, 389-404 A vague set approach for identifying shot transition in videos using multiple feature amalgamation. 2019, 75, 633-651 Simultaneous Species Concentration and Flow Velocity Imaging Using 2D Raman Scattering at Elevated Pressure. 2019, A novel non-parametric transform stereo matching method based on mutual relationship. 2019,	1 5 1
701 700 699	Hardware efficient block matching algorithm based on modified differential evolution optimization for fast motion estimation. 2019, 100, 389-404 A vague set approach for identifying shot transition in videos using multiple feature amalgamation. 2019, 75, 633-651 Simultaneous Species Concentration and Flow Velocity Imaging Using 2D Raman Scattering at Elevated Pressure. 2019, A novel non-parametric transform stereo matching method based on mutual relationship. 2019, 101, 621-635	1 5 1
701 700 699 698	Hardware efficient block matching algorithm based on modified differential evolution optimization for fast motion estimation. 2019, 100, 389-404 A vague set approach for identifying shot transition in videos using multiple feature amalgamation. 2019, 75, 633-651 Simultaneous Species Concentration and Flow Velocity Imaging Using 2D Raman Scattering at Elevated Pressure. 2019, A novel non-parametric transform stereo matching method based on mutual relationship. 2019, 101, 621-635 Solving Double-Sided Puzzles: Automated Assembly of Torn-up Banknotes Evidence. 2019, 64, 1078-1091	1 5 1 0

(2020-2019)

693	Optical flow estimations in aerated spillway flows: Filtering and discussion on sampling parameters. 2019 , 103, 318-328	11
692	Moving object detection based on smoothing three frame difference method fused with RPCA. Multimedia Tools and Applications, 2019 , 78, 29937-29951	10
691	Acoustic Perturbation of Breathing: A Newly Discovered Response to Soft Sounds in Rats Using an Approach of Image Analysis. 2019 , 39, 43-53	1
690	Better Dense Trajectories by Motion in Videos. 2019 , 49, 159-170	13
689	An implementation of optimized framework for action classification using multilayers neural network on selected fused features. 2019 , 22, 1377-1397	45
688	Rearview Camera-Based Stixel Generation for Backing Crash Prevention. 2020 , 21, 117-134	5
687	Dynamic Texture Segmentation Approaches for Natural and Manmade Cases: Survey and Experimentation. 2020 , 27, 285-297	0
686	Models Matter, So Does Training: An Empirical Study of CNNs for Optical Flow Estimation. 2020 , 42, 1408-142	2344
685	Advances in Human Factors in Robots and Unmanned Systems. 2020 ,	1
684	Pyramidal Lucas K anade-Based Noncontact Breath Motion Detection. 2020 , 50, 2659-2670	7
683	Deep generative smoke simulator: connecting simulated and real data. <i>Visual Computer</i> , 2020 , 36, 1385-1399	1
682	Tracking and frame-rate enhancement for real-time 2D human pose estimation. <i>Visual Computer</i> , 2020 , 36, 1501-1519	7
681	Novel remapping approach for HR-EBSD based on demons registration. 2020 , 208, 112851	15
680	Neuromorphic implementation of motion detection using oscillation interference. 2020 , 374, 54-63	5
679	Optical Flow Estimation Using Dual Self-Attention Pyramid Networks. 2020 , 30, 3663-3674	17
678	Vision Tracking: A Survey of the State-of-the-Art. 2020 , 1, 1	11
677	Adaptive Regularization of Some Inverse Problems in Image Analysis. 2019,	2
676	Intelligence and Adaptive Global Algorithm Detection of Crowd Behavior. 2020 , 10, 24-41	3

675	An efficient EM-ICP algorithm for non-linear registration of large 3D point sets. 2020 , 191, 102854	3
674	Robust optical flow estimation involving exponential fractional-order derivatives. <i>Optik</i> , 2020 , 202, 163643	2
673	A computer vision approach to study surface deformation of materials. 2020 , 31, 055602	6
672	Human activity recognition from UAV-captured video sequences. 2020 , 100, 107140	19
671	A torus model for optical flow. 2020 , 129, 304-310	1
670	A Machine Learning Method with Threshold Based Parallel Feature Fusion and Feature Selection for Automated Gait Recognition. 2020 , 32, 67-92	32
669	Globally optimized cross-correlation for particle image velocimetry. <i>Experiments in Fluids</i> , 2020 , 61, 1 2.5	2
668	A Novel Tracking Method Based on Improved FAST Corner Detection and Pyramid LK Optical Flow. 2020 ,	2
667	A review on computer vision systems in monitoring of poultry: A welfare perspective. 2020 , 4, 184-208	13
666	Automated leaf movement tracking in time-lapse imaging for plant phenotyping. 2020 , 175, 105623	4
665	Fusing pyramid histogram of gradients and optical flow for hand gesture recognition. 2020, 10, 449	3
664	Low Complexity Illumination-Invariant Motion Vector Detection Based on Logarithmic Edge Detection and Edge Difference. 2020 ,	
663	EVALUATE CLINICAL EFFICACY OF BIOCERAMIC TECHNOLOGY ON PSYCHOPATHICALLY RELATED SPASMODIC TORTICOLLIS USING MOTION MEASUREMENTS, COMPUTERIZED ANALYSIS OF FACIAL EMOTIONS AND SPEECH SIGNAL FEATURES. 2020 , 32, 2050021	
662	MuLViS: Multi-Level Encryption Based Security System for Surveillance Videos. <i>IEEE Access</i> , 2020 , 8, 1771 ₃ 3 ₉ -1	778155
661	Realistic Dynamic Numerical Phantom for MRI of the Upper Vocal Tract. 2020 , 6,	1
660	Quantifying topography-guided actin dynamics across scales using optical flow. 2020 , 31, 1753-1764	8
659	A Survey of Image Synthesis Methods for Visual Machine Learning. 2020 , 39, 426-451	4
658	Manipulator Package Sorting and Placing System Based on Computer Vision. 2020,	2

657	AdaCoF: Adaptive Collaboration of Flows for Video Frame Interpolation. 2020,	31
656	An Improved Moving Target Detection Algorithm Based on Vibe. 2020 ,	O
655	SoSE 2020 Committees. 2020 ,	
654	Resource-Efficient and High-Throughput VLSI Design of Global Optical Flow Method for Mobile Systems. 2020 , 28, 1717-1725	O
653	Global Spatio-Temporal Attention for Action Recognition Based on 3D Human Skeleton Data. <i>IEEE Access</i> , 2020 , 8, 88604-88616	6
652	Influence of contrast agent and spatial resolution on myocardial strain results using feature tracking MRI. 2020 , 30, 6099-6108	3
651	Combining the Kalman Filter and Particle Filter in Object Tracking to Avoid Occlusion Problems. 2020 , 571-586	1
650	Distance Surface for Event-Based Optical Flow. 2020 , 42, 1547-1556	9
649	Dynamic analysis of stepping behavior of pedestrian social groups on stairs. 2020 , 2020, 063403	9
648	Automatic Count of Bites and Chews From Videos of Eating Episodes. <i>IEEE Access</i> , 2020 , 8, 101934-1019455	5
647	Deep Learning for Underwater Visual Odometry Estimation. <i>IEEE Access</i> , 2020 , 8, 44687-44701 3.5	8
646	Study on Electromagnetic Vibration Analysis Process for PM Motors. 2020 , 30, 1-6	7
645	Unsupervised Specific Emitter Identification Method Using Radio-Frequency Fingerprint Embedded InfoGAN. 2020 , 15, 2898-2913	21
644	IEEE Sensors Council Information. 2020 , 20, C3-C3	
643	NowPrecip: localized precipitation nowcasting in the complex terrain of Switzerland. 2020 , 146, 1768-1800	6
642	Multi-Agent Motion Planning for Dense and Dynamic Environments via Deep Reinforcement Learning. 2020 , 5, 3221-3226	22
641	Active Player Detection in Handball Scenes Based on Activity Measures. 2020 , 20,	11
640	A Lightweight Key Agreement and Authentication Scheme for Satellite-Communication Systems. <i>IEEE Access</i> , 2020 , 8, 46278-46287 3.5	9

639	Limbs Detection and Tracking of Head-Fixed Mice for Behavioral Phenotyping Using Motion Tubes and Deep Learning. <i>IEEE Access</i> , 2020 , 8, 37891-37901	3.5	
638	Observer-Based Adaptive Fuzzy Tracking Control for Strict-Feedback Nonlinear Systems With Unknown Control Gain Functions. 2020 , 50, 3903-3913		257
637	Cross-Weather Image Alignment via Latent Generative Model with Intensity Consistency. 2020,		11
636	A computer-vision based vibration transducer scheme for structural health monitoring applications. 2020 , 29, 085007		6
635	Study of the Effect of Intake Layout on the Wavefront in a Beam Expanding System of a Telescope. 2020 , 10, 3643		
634	Towards objective identification and tracking of convective outflow boundaries in next-generation geostationary satellite imagery. 2020 , 13, 1593-1608		3
633	Wavelet Denoising for the Vibration Signals of Wind Turbines Based on Variational Mode Decomposition and Multiscale Permutation Entropy. <i>IEEE Access</i> , 2020 , 8, 40347-40356	3.5	12
632	Risk and Resilience Assessment With Component Criticality Ranking of Electric Power Systems Subject to Earthquakes. 2020 , 14, 2837-2848		25
631	On optical flow techniques applied to breaking surges. <i>Flow Measurement and Instrumentation</i> , 2020 , 72, 101710	2.2	3
630	Clustered Hybrid Wind Power Prediction Model Based on ARMA, PSO-SVM, and Clustering Methods. <i>IEEE Access</i> , 2020 , 8, 17071-17079	3.5	33
629	Evaluation of Human Body Characteristics for Electric Signal Transmission Based on Measured Body Impulse Response. 2020 , 69, 6399-6411		8
628	A proper generalized decomposition approach for optical flow estimation. 2020 , 43, 5339-5356		
627	. 2020 , 50, 154-164		1
626	Deep Learning Algorithm for Satellite Imaging Based Cyclone Detection. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 13, 827-839	4.7	9
625	Vehicle detection in intelligent transport system under a hazy environment: a survey. 2020 , 14, 1-10		16
624	DAViS Camera Optical Flow. 2020 , 6, 396-407		5
623	Real-Time, Deep Learning Based Wrong Direction Detection. 2020 , 10, 2453		4
622	Uplink NOMA in Body Area Networks With Simple Node Pairing Strategies. 2020 , 20, 9596-9603		1

(2021-2020)

621	An Adaptive Vibe Algorithm Based on Dispersion Coefficient and Spatial Consistency Factor. 2020 , 54, 80-88		4
620	Evaluating the computational performance of the Xilinx Ultrascale+ EG Heterogeneous MPSoC. 2021 , 77, 2124-2137		2
619	Automatic alert generation in a surveillance systems for smart city environment using deep learning algorithm. 2021 , 14, 635-642		11
618	Statistical downscaling with spatial misalignment: Application to wildland fire PM concentration forecasting. 2021 , 26, 23-44		O
617	A City Monitoring System Based on Real-Time Communication Interaction Module and Intelligent Visual Information Collection System. 2021 , 53, 2501-2517		1
616	Addressing the New Item problem in video recommender systems by incorporation of visual features with restricted Boltzmann machines. 2021 , 38, e12645		2
615	A Low-Cost Excitation System for Operational Modal Analysis (OMA). <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 , 145-152	0.3	
614	Special Topics in Structural Dynamics & Experimental Techniques, Volume 5. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021 ,	0.3	
613	Visualization Method for the Cell-Level Vesicle Transport Using Optical Flow and a Diverging Colormap. 2021 , 21,		O
612	Stable control framework for cell transportation using robot-aided optical tweezers. 2021 , 23-37		
611	Towards Causal Benchmarking of Biasin Face Analysis Algorithms. 2021 , 327-359		4
610	An Efficient Point-Matching Method Based on Multiple Geometrical Hypotheses. 2021 , 10, 246		O
609	. IEEE Access, 2021 , 9, 72670-72680	3.5	2
608	Investigating into Minimum Detectable Displacement Signal in Image-Based Vibration Measurement. 2021 , 882-894		2
607	A Novel Vision-Based Framework for Identifying Dynamic Vehicle Loads on Long-Span Bridges: A Case Study of Jiangyin Bridge, China. 2021 , 1-17		O
606	A comprehensive survey on video frame interpolation techniques. Visual Computer, 1	2.3	1
605	Blur Removal Via Blurred-Noisy Image Pair. 2021 , 30, 345-359		6

603	Comparing Virtual Environments for Cybersickness Using a Cumulative Optical Flow Entropy Metric. <i>IEEE Access</i> , 2021 , 9, 68898-68904	3.5	1
602	Hand Palm Tracking in Monocular Images by Fuzzy Rule-based Fusion of Explainable Fuzzy Features with Robot Imitation Application. 2021 , 1-1		2
601	Efficient Video Super-Resolution via Hierarchical Temporal Residual Networks. <i>IEEE Access</i> , 2021 , 9, 106	5 0,49 -1	06064
600	EDEN: Multimodal Synthetic Dataset of Enclosed GarDEN Scenes. 2021,		4
599	A Comprehensive Review on 3D Object Detection and 6D Pose Estimation with Deep Learning. <i>IEEE Access</i> , 2021 , 1-1	3.5	4
598	LightPIVNet: An Effective Convolutional Neural Network for Particle Image Velocimetry. 2021 , 70, 1-15		6
597	Deep Sketch-guided Cartoon Video Inbetweening. 2021 , PP,		
596	Real-Time Object Tracking Based on Optical Flow. 2021 ,		2
595	Leveraging Deep Learning for Visual Odometry Using Optical Flow. 2021 , 21,		2
594	Object detection by using Chebyschev filter: Reducing error in object detection using traditional way. 2021 ,		
593	Traditional and modern strategies for optical flow: an investigation. 2021 , 3, 1		4
592	Development of an Image Registration Technique for Fluvial Hyperspectral Imagery Using an Optical Flow Algorithm. 2021 , 21,		2
591	A secure video steganography scheme using DWT based on object tracking. 1-18		1
590	Multi-resolution analysis of aero-optical effects in a supersonic turbulent boundary layer. <i>Applied Optics</i> , 2021 , 60, 2242-2251	1.7	2
589	A review of action recognition based on Convolutional Neural Network. <i>Journal of Physics: Conference Series</i> , 2021 , 1827, 012138	0.3	0
588	Human Activity Recognition Algorithm in Video Sequences Based on Integration of Magnitude and Orientation Information of Optical Flow. 2250009		2
587	A new approach for quantitative assessment of fetal general movements in the early second trimester of pregnancy using four-dimensional ultrasound. 2021 , 48, 335-344		
586	Optical flow method for measuring deformation of soil specimen subjected to torsional shearing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 174, 109064	4.6	5

(2021-2021)

585	A deep survey on supervised learning based human detection and activity classification methods. <i>Multimedia Tools and Applications</i> , 2021 , 80, 27867-27923	2.5	6
584	A deep genetic algorithm for human activity recognition leveraging fog computing frameworks. 2021 , 77, 103132		4
583	Defining the optimal temporal and spatial resolution for cardiovascular magnetic resonance imaging feature tracking. 2021 , 23, 60		3
582	Estimation of soil waterfront velocity and saturated hydraulic conductivity in a Hele-Shaw apparatus with an optical flow method. 2021 , 184, 106086		
581	Automatic identification of continuous or non-continuous evolution of landslides and quantification of deformations. 2021 , 18, 3101-3118		1
580	On the space-time statistics of motion pictures. 2021 , 38, 908-923		4
579	An integrated platform to facilitate the calculation, validation and visualization of optical flow velocities in biological images. 2021 , 18, 20210248		0
578	Snapshot SpaceIIime Holographic 3D Particle Tracking Velocimetry. 2021 , 15, 2100008		4
577	A consistent deep registration network with group data modeling. 2021 , 90, 101904		0
576	Generalized Optical Flow based Motion Vector Refinement in AV1. 2021,		О
575	Segmental strain analysis for the detection of chronic ischemic scars in non-contrast cardiac MRI cine images. <i>Scientific Reports</i> , 2021 , 11, 12376	4.9	2
574	Optical flow and scene flow estimation: A survey. 2021 , 114, 107861		11
573	Binary dense sift flow based two stream CNN for human action recognition. <i>Multimedia Tools and Applications</i> , 1	2.5	2
57²	Efficient Space-time Video Super Resolution using Low-Resolution Flow and Mask Upsampling. 2021 ,		2
571	Automated rip current detection with region based convolutional neural networks. 2021, 166, 103859		9
570	A functional error analysis of differential optical flow methods. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	О
569	Application of Deep Learning Methods for Detection and Tracking of Players.		2
568	Real-Time Deep Video Analytics on Mobile Devices. 2021 ,		

567	Development of a thermal-visible video surveillance system based on fractional order tv-model. Journal of Physics: Conference Series, 2021, 1950, 012026	0.3	1
566	Rotation Estimation for Omni-directional Cameras Using Sinusoid Fitting. 2021, 103, 1		O
565	Breaking bore roller characteristics: Turbulence statistics using optical techniques. 2021 , 168, 103893		0
564	Analysis of Coronary Angiography Video Interpolation Methods to Reduce X-ray Exposure Frequency Based on Deep Learning. 2021 , 6, 17-24		
563	Task-based parameter isolation for foreground segmentation without catastrophic forgetting using multi-scale region and edges fusion network. 2021 , 113, 104248		
562	Accurate Realtime Motion Estimation Using Optical Flow on an Embedded System. 2021 , 10, 2164		2
561	Rupture Detection During Needle Insertion Using Complex OCT Data and CNNs. 2021, 68, 3059-3067		1
560	Video Folding: Increased Framerate for Semi-Repetitive Sequences. 2021 , 27, 3900-3912		
559	Computer vision based target-free 3D vibration displacement measurement of structures. 2021 , 246, 113040		6
558	A comparison of different methods for estimating turbulent dissipation rate in under-resolved flow fields from synthetic PIV images. 2021 , 175, 161-170		2
557	Structural vibration mode identification from high-speed camera footages using an adaptive spatial filtering approach. 2022 , 166, 108422		3
556	Latest Developments of Gesture Recognition for HumanRobot Collaboration. 2021, 43-68		1
555	Deep Trajectory Classification Model for Congestion Detection in Human Crowds. 2021 , 68, 705-725		2
554	PDEs on graphs for semi-supervised learning applied to first-person activity recognition in body-worn video. 2021 , 41, 4351		
553	A Volumetric Optical Flow Method for Measurement of Brain Deformation from Intraoperative Magnetic Resonance Images. 1999 , 928-935		16
552	Variational Analysis of Spherical Images. 2005 , 104-111		10
551	Multi-modal Primitives as Functional Models of Hyper-columns and Their Use for Contextual Integration. 2005 , 157-166		10
550	Optical Flow Computation for Compound Eyes: Variational Analysis of Omni-Directional Views. 2005 , 527-536		9

(2001-2005)

549	Implicit Free-Form-Deformations for Multi-frame Segmentation and Tracking. 2005, 271-282	3
548	A Multi-camera Vision System for Real-Time Tracking of Parcels Moving on a Conveyor Belt. 2005 , 708-717	4
547	A Fluid Motion Estimator for Schlieren Image Velocimetry. 2006 , 198-210	19
546	Revisiting the Brightness Constraint: Probabilistic Formulation and Algorithms. 2006, 177-188	4
545	Real-Time Embedded System for Rear-View Mirror Overtaking Car Monitoring. 2006, 385-394	2
544	Face for Ambient Interface. 2006 , 32-66	9
543	Diffusion-Like Reconstruction Schemes from Linear Data Models. 2006 , 51-60	6
542	Atrial septal defect tracking in 3D cardiac ultrasound. 2006 , 9, 596-603	4
541	Optic Flow from Multi-scale Dynamic Anchor Point Attributes. 2006 , 767-779	5
540	The Effect of Presmoothing Image Sequences on the Computation of Optical Flow. 2006 , 780-791	1
539	Optical Flow Based Frame Interpolation of Ultrasound Images. 2006 , 792-803	8
538	Hybrid Silhouette Extraction Method for Detecting and Tracking the Human Motion. 2006 , 687-695	1
537	Moving Object Detecting Using Gradient Information, Three-Frame-Differencing and Connectivity Testing. 2006 , 510-518	3
536	The Tensor Voting Framework. 2005 , 535-568	1
535	Optimal Image Interpolation and Optical Flow. 2003 , 133-143	1
534	Global Motion Fourier Series Expansion for Video Indexing and Retrieval. 2000 , 327-337	3
533	An Experimental Comparison of Stereo Algorithms. 2000 , 1-19	27
532	Attempts to Bronchial Tumor Motion Tracking in Portal Images during Conformal Radiotherapy Treatment. 2001 , 247-255	4

531	Particle Image Velocimetry by Feature Tracking. 2001 , 325-332	8
530	Estimation of Motion through Inverse Finite Element Methods with Triangular Meshes. 2001 , 333-340	3
529	Direction Control for an Active Docking Behaviour Based on the Rotational Component of Log-Polar Optic Flow. 2000 , 167-181	8
528	Multimodal Elastic Matching of Brain Images. 2000 , 511-527	7
527	Deformation Field Estimation for the Cardiac Wall Using Doppler Tissue Imaging. 2001, 53-60	4
526	Real Time Fusion of Motion and Stereo Using Flow/Depth Constraint for Fast Obstacle Detection. 2002 , 75-82	7
525	Dense Parameter Fields from Total Least Squares. 2002 , 379-386	5
524	Nonlinear Matrix Diffusion for Optic Flow Estimation. 2002 , 446-453	25
523	Mixed OLS-TLS for the Estimation of Dynamic Processes with a Linear Source Term. 2002, 463-471	7
522	Empirically Convergent Adaptive Estimation of Grayvalue Structure Tensors. 2002, 66-74	3
521	Computing Optic Flow by Scale-Space Integration of Normal Flow. 2001 , 14-25	3
520	Symmetrical Dense Optical Flow Estimation with Occlusions Detection. 2002 , 721-735	26
519	Perceptual Grouping from Motion Cues Using Tensor Voting in 4-D. 2002 , 423-437	2
518	Beyond the Epipolar Constraint: Integrating 3D Motion and Structure Estimation. 1998 , 109-123	1
517	Closing the loop: Pursuing a moving object by a moving observer. 1995 , 400-407	9
516	Direct obstacle detection and motion from spatio-temporal derivatives. 1995 , 874-879	7
515	Optical flow and phase portrait methods for environmental satellite image sequences. 1996 , 141-150	12
514	Refinement of optical flow estimation and detection of motion edges. 1996 , 151-160	3

513	Accuracy vs. efficiency trade-offs in optical flow algorithms. 1996 , 174-183	8
512	Matching object models to segments from an optical flow field. 1996 , 388-399	9
511	Optical flow detection using a general noise model for gradient constraint. 1997 , 669-676	8
510	Estimating translation/deformation motion through phase correlation. 1997 , 653-660	4
509	Automatic Video Database Indexing and Retrieval. 1997 , 29-56	3
508	The William Harvey Code: Mathematical Analysis of Optical Flow Computation for Cardiac Motion. 2008 , 81-104	2
507	Real-Time Billboard Substitution in a Video Stream. 1999 , 71-84	6
506	A Short Introduction to Diffusion-Like Methods. 2012 , 1-30	1
505	TCCT: A GUI Table Comparison Computer Tool. 2013 , 197-209	1
504	Separation of Moving Regions from Background in an Image Sequence Acquired with a Mobil Camera. 1997 , 283-311	22
503	Interaction on the Tabletop: Bringing the Physical to the Digital. 2010 , 189-221	5
502	NeatVision: Development Environment for Machine Vision Engineers. 2012 , 981-1029	1
501	Robust Optical Flow in Rainy Scenes. 2018 , 299-317	8
500	Spatiotemporal Analysis of 🛭 ello Effect 🗓 n Drone Videos. 2020, 197-207	1
499	Towards Causal Benchmarking of Bias in Face Analysis Algorithms. 2020 , 547-563	12
498	Groupwise Registration of Brain Images for Establishing Accurate Spatial Correspondence of Brain Structures. 2014 , 229-257	1
497	Computing Probabilistic Optical Flow Using Markov Random Fields. 2014 , 241-247	4
496	Practical Real-Time System for Object Counting Based on Optical Flow. 2015 , 299-306	1

495	Dense Optical Flow Estimation with 3D Structure Tensor Models. 2015 , 685-691	1
494	Bio-inspired Motion Estimation with Event-Driven Sensors. 2015 , 309-321	15
493	Real Time Dense Motion Estimation Using FPGA Based Omnidirectional Video Acquisition Device. 2016 , 87-108	1
492	Abnormal Crowd Motion Detection Using Double Sparse Representations. 2015 , 249-259	1
491	Visual Surveillance System with Multi-UAVs Under Communication Constrains. 2016, 705-713	2
490	Toward Building a Content-Based Video Recommendation System Based on Low-Level Features. 2015 , 45-56	12
489	Image Pre-Processing. 2016 , 35-74	2
488	Motion Estimation Algorithm Using Block-Matching and Harmony Search Optimization. 2017, 13-44	4
487	A Time-Efficient Optimisation Framework for Parameters of Optical Flow Methods. 2017, 41-53	4
486	Adaptive Regularization in Convex Composite Optimization for Variational Imaging Problems. 2017 , 268-280	4
485	Adaptive Motion Pooling and Diffusion for Optical Flow Computation. 2017, 60-71	1
484	Fast Monocular Bayesian Detection of Independently Moving Objects by a Moving Observer. 2004 , 27-35	7
483	Real Time Optical Flow Processing System. 2004 , 617-626	5
482	Parallel Computation of Optical Flow. 2004 , 397-404	2
481	Elastic Registration with Partial Data. 2003 , 102-111	4
480	Velocity estimation in ultrasound images: a block matching approach. 2003 , 18, 586-98	44
479	Domain Decomposition for Parallel Variational Optical Flow Computation. 2003, 196-203	8
478	A Variational Model for the Joint Recovery of the Fundamental Matrix and the Optical Flow. 2008 , 314-324	21

477	Postprocessing of Optical Flows Via Surface Measures and Motion Inpainting. 2008, 355-364	8
476	Statistically Optimal Averaging for Image Restoration and Optical Flow Estimation. 2008, 466-475	3
475	On Variational Methods for Fluid Flow Estimation. 2004 , 124-145	2
474	Optimal Filters for Extended Optical Flow. 2004 , 14-29	19
473	Wiener-Optimized Discrete Filters for Differential Motion Estimation. 2004, 30-41	3
472	Data-Driven Animation of Crowds. 2007 , 377-388	1
471	Dense Optical Flow Estimation from the Monogenic Curvature Tensor. 2007 , 239-250	16
470	A Variational Approach for 3D Motion Estimation of Incompressible PIV Flows. 2007 , 837-847	1
469	Pseudo-real Image Sequence Generator for Optical Flow Computations. 2007, 976-985	4
468	Imaging brain activation streams from optical flow computation on 2-Riemannian manifolds. 2007 , 20, 470-81	7
467	High Accuracy Optical Flow Method Based on a Theory for Warping: Implementation and Qualitative/Quantitative Evaluation. 2007 , 513-525	4
466	Classification of Optical Flow by Constraints. 2007 , 61-68	2
465	An Adaptive Confidence Measure for Optical Flows Based on Linear Subspace Projections. 2007, 132-141	23
464	Bayesian Model Selection for Optical Flow Estimation. 2007 , 142-151	9
463	Symmetric Optical Flow. 2007 , 676-683	9
462	Occupancy Grids from Stereo and Optical Flow Data. 2008, 367-376	6
461	A Convergence Proof for the Horn-Schunck Optical-Flow Computation Scheme Using Neighborhood Decomposition. 2008 , 262-273	4
460	GPU-Based Multigrid: Real-Time Performance in High Resolution Nonlinear Image Processing. 2008 , 141-150	13

459	An active contour-based atlas registration model applied to automatic subthalamic nucleus targeting on MRI: method and validation. 2008 , 11, 980-8	6
458	Learning for Optical Flow Using Stochastic Optimization. 2008 , 379-391	13
457	A Statistical Confidence Measure for Optical Flows. 2008 , 290-301	21
456	Combined Registration Methods for Pose Estimation. 2008 , 913-924	3
455	Coronary Occlusion Detection with 4D Optical Flow Based Strain Estimation on 4D Ultrasound. 2009 , 211-219	6
454	A Multi-scale Feature Based Optic Flow Method for 3D Cardiac Motion Estimation. 2009 , 588-599	7
453	Hyperbolic Numerics for Variational Approaches to Correspondence Problems. 2009, 636-647	2
452	Multivalued Background/Foreground Separation for Moving Object Detection. 2009, 263-270	6
451	Complementary Optic Flow. 2009 , 207-220	53
450	Rapid Inference of Object Rigidity and Reflectance Using Optic Flow. 2009 , 881-888	4
449	Extraction of Cardiac Motion Using Scale-Space Features Points and Gauged Reconstruction. 2009 , 598-605	1
448	An Efficient Linear Method for the Estimation of Ego-Motion from Optical Flow. 2009 , 11-20	11
447	A Fast Joint Bioinspired Algorithm for Optic Flow and Two-Dimensional Disparity Estimation. 2009 , 184-193	9
446	Fast and Accurate Structure and Motion Estimation. 2009, 211-222	4
445	3-D Mouse Brain Model Reconstruction from a Sequence of 2-D Slices in Application to Allen Brain Atlas. 2010 , 291-303	2
444	Estimation of 3D Object Structure, Motion and Rotation Based on 4D Affine Optical Flow Using a Multi-camera Array. 2010 , 596-609	1
443	Vector Field Learning via Spectral Filtering. 2010 , 56-71	7
442	Optical Flow Estimation with Prior Models Obtained from Phase Correlation. 2010 , 417-426	8

441	Hierarchical Optical Flow Estimation Architecture Using Color Cues. 2011 , 269-274	1
440	A New Framework for Motion Estimation in Image Sequences Using Optimal Flow Control. 2011 , 307-320	1
439	A Neural Field Model for Motion Estimation. 2011 , 159-179	3
438	Real-Time Estimation of Optical Flow Based on Optimized Haar Wavelet Features. 2011, 448-461	6
437	Mechanisms of Adaptive Spatial Integration in a Neural Model of Cortical Motion Processing. 2011 , 110-119	1
436	Optical Flow Guided TV-L1 Video Interpolation and Restoration. 2011 , 273-286	24
435	Vehicle Tracking Based on Kalman Filter in Tunnel. 2011 , 250-256	3
434	Two Algorithms for Motion Estimation from Alternate Exposure Images. 2011 , 25-51	1
433	Reviews on Planar Region Detection for Visual Navigation of Mobile Robot under Unknown Environment. 2011 , 593-601	2
432	Perception Quality Evaluation with Visual and Infrared Cameras in Challenging Environmental Conditions. 2014 , 711-725	7
431	Parameter Estimation in Image Processing and Computer Vision. 2013 , 311-334	3
430	Bilayer Segmentation Augmented with Future Evidence. 2012 , 699-711	3
429	A Naturalistic Open Source Movie for Optical Flow Evaluation. 2012 , 611-625	394
428	Quality Assessment of Non-dense Image Correspondences. 2012 , 114-123	2
427	Lessons and Insights from Creating a Synthetic Optical Flow Benchmark. 2012, 168-177	22
426	Fast 6D Odometry Based on Visual Features and Depth. 2013 , 5-16	2
425	Why Is the Census Transform Good for Robust Optic Flow Computation?. 2013 , 210-221	33
424	Depth Estimation during Fixational Head Movements in a Humanoid Robot. 2013 , 264-273	2

423	Thumbs Up: 3D Gesture Input on Mobile Phones Using the Front Facing Camera. 2013, 318-336	3
422	An Evaluation of Data Costs for Optical Flow. 2013 , 343-353	36
421	Video Segmentation Framework by Dynamic Background Modelling. 2013, 843-852	3
420	A Literature Review on Video Analytics of Crowded Scenes. 2013 , 17-36	26
419	Virtual Reality Graded Exposure Therapy as Treatment for Pain-Related Fear and Disability in Chronic Pain. 2014 , 523-546	10
418	Towards an Ecology of Motion Vision. 2001 , 333-369	28
417	The Minors of the Structure Tensor. 2000 , 221-228	8
416	Variational Image Motion Computation: Theoretical Framework, Problems and Perspectives. 2000 , 476-487	6
415	Rümlich-zeitliche Berechnung des optischen Flusses mit nichtlinearen flußbhägigen Glattheitstermen. 1999 , 317-324	5
414	Separation of texture and two-dimensional shape in images of human faces. 1995 , 118-125	7
413	A Variational Approach to the Design of Early Vision Algorithms. 1996 , 149-165	7
412	Experimental Comparative Evaluation of Feature Point Tracking Algorithms. 2000, 167-178	6
411	Databases for Performance Characterization. 2000 , 29-40	5
410	Motion Estimation from Image Sequences: A Fractional Order Total Variation Model. 2017 , 297-307	2
409	Motion. 2000 , 347-395	7
408	Diffusing Models and Applications. 1999 , 143-155	2
407	AUTOMATIC DETERMINATION OF DISPLACEMENT FIELDS USING IMAGE ANALYSIS TECHNIQUES. 1999 , 138-148	2
406	Effects of immunization with heat-killed Mycobacterium vaccae on autism spectrum disorder-like behavior and epileptogenesis in a rat model of comorbid autism and epilepsy. 2020 , 88, 763-780	4

405	Optical flow refinement using iterative propagation under colour, proximity and flow reliability constraints. 2020 , 14, 1509-1519		1
404	Comprehensive investigation into the stability of Varian and Elekta kV imaging systems during arc delivery 2020 , 6,		1
403	The HCI Benchmark Suite: Stereo and Flow Ground Truth with Uncertainties for Urban Autonomous Driving. 2016 ,		25
402	Direct multi-frame structure from motion for hand-held cameras.		5
401	Robust Non-Local TV- \$L^{1}\$ Optical Flow Estimation With Occlusion Detection. 2017 , 26, 4055-4067		27
400	Benchmarking Wilms' tumor in multisequence MRI data: why does current clinical practice fail? Which popular segmentation algorithms perform well?. 2019 , 6, 034001		4
399	Moving target segmentation using Markov random field-based evaluation metric in infrared videos. 2018 , 57, 1		2
398	Evaluation of Digestive Activation Level of a Small Intestine by Abdominal Ultrasound Image Analysis. 2011 , 12, 81-89		1
397	OpenACC-based GPU acceleration of an optical flow algorithm. 2015 ,		2
396	Visual Quality Assessment. 2015 , 317-328		1
395	Optical Flow Estimation Using Total Least Squares Variants. 2017 , 10, 563-579		4
394	Simultaneous measurements of mixture fraction and flow velocity using 100 kHz 2D Rayleigh scattering imaging. <i>Applied Optics</i> , 2019 , 58, C30-C35	1.7	6
393	Digital image correlation with reduced bias error based on digital signal upsampling theory. <i>Applied Optics</i> , 2019 , 58, 3962-3973	1.7	2
392	Alignment methods for nanotomography with deep subpixel accuracy. 2019 , 27, 36637-36652		16
391	Theory and validation of magnetic resonance fluid motion estimation using intensity flow data. 2009 , 4, e4747		17
390	A brain network processing the age of faces. 2012 , 7, e49451		10
389	NeuroKinect: A Novel Low-Cost 3Dvideo-EEG System for Epileptic Seizure Motion Quantification. 2016 , 11, e0145669		31
388	Real-Time Optical Flow Estimation Using Multiple Frame-Straddling Intervals. 2012 , 24, 686-698		2

387	A Real-Time Microscopic PIV System Using Frame Straddling High-Frame-Rate Vision. 2013 , 25, 586-595	3
386	Optical Flow Algorithm for Velocity Estimation of Ground Vehicles: A Feasibility Study. 2008, 1,	8
385	MOVING TARGET DETECTION BASED ON GLOBAL MOTION ESTIMATION IN DYNAMIC ENVIRONMENT. 2014 , 7, 360-379	6
384	Optical flow tracking method for vibration identification of out-of-plane vision. 2017 , 19, 2363-2374	3
383	Plant Growth Measurement Techniques using Near-Infrared Imagery. 2005, 20,	2
382	Transfer Learning: Video Prediction and Spatiotemporal Urban Traffic Forecasting. 2020 , 13, 39	2
381	Unsupervised Learning from Videos for Object Discovery in Single Images. 2021 , 13, 38	3
380	Preceding moving vehicle detection based on shadow of chassis. 2012 , 26, 54-59	4
379	Gas Flame Temperature Measurement Using Background Oriented Schlieren. 2011 , 11, 1658-1662	8
378	Detection of Gradual Transition in Videos. 2017 , 282-318	2
377	Occlusion Robust Low-Contrast Sperm Tracking Using Switchable Weight Particle Filtering. 2014 , 04, 42-54	9
376	Pedestrian Flow Simulation Validation and Verification Techniques. 2015 , 03, 119-134	4
375	Target Detection and Pedestrian Recognition in Infrared Images. 2013, 8,	5
374	Gesture Extraction for Ubiquitous Robot-Human Interaction. 2005 , 11, 1062-1067	2
373	Terrain Geometry from Monocular Image Sequences. 2008 , 2, 98-108	3
372	Analysis of cellular behavior and cytoskeletal dynamics reveal a constriction mechanism driving optic cup morphogenesis. 2016 , 5,	42
371	A minimally interactive method for labeling respiratory phases in free-breathing thoracic dynamic MRI for constructing 4D images. 2021 , PP,	
370	Motion Magnification of Vibration Image in Estimation of Technical Object Condition-Review. 2021 , 21,	2

369	Wind Flow Characterisation over a PV Module through URANS Simulations and Wind Tunnel Optical Flow Methods. 2021 , 14, 6546	О
368	A multi-scale multi-attention network for dynamic facial expression recognition. 1	О
367	Selection of Key Frames for 3D Reconstruction in Real Time. 2021 , 14, 303	
366	A Probabilistic Particle Tracking Framework for Guided and Brownian Motion Systems with High Particle Densities. 2021 , 2, 1	1
365	Uncertainty Propagation in Shape Reconstruction and Moving Object Detection from Optical Flow. 2000 , 125-135	
364	A Humanoid Vision System for Versatile Interaction. 2000 , 512-526	
363	Performance Characteristics of Low-Level Motion Estimators in Spatiotemporal Images. 2000 , 139-152	О
362	Motion Extraction. 2000 , 69-80	
361	Facial and Motion Analysis for Image and Video Retrieval. 2001 , 235-254	
360	Harmonic Phase MRI. 2001 , 119-150	3
359	Harmonic Phase MRI. 2001 , 119-150 Fast Local Estimation of Optical Flow Using Variational and Wavelet Methods. 2001 , 349-356	3
		1
359	Fast Local Estimation of Optical Flow Using Variational and Wavelet Methods. 2001 , 349-356	
359	Fast Local Estimation of Optical Flow Using Variational and Wavelet Methods. 2001 , 349-356 Optical Flow in Log-mapped Image Plane. 2001 , 252-260	
359 358 357	Fast Local Estimation of Optical Flow Using Variational and Wavelet Methods. 2001, 349-356 Optical Flow in Log-mapped Image Plane. 2001, 252-260 Optical Flow and Image Registration: A New Local Rigidity Approach for Global Minimization. 2001, 592-607	1
359 358 357 356	Fast Local Estimation of Optical Flow Using Variational and Wavelet Methods. 2001, 349-356 Optical Flow in Log-mapped Image Plane. 2001, 252-260 Optical Flow and Image Registration: A New Local Rigidity Approach for Global Minimization. 2001, 592-607 The Fusion of Image and Range Flow. 2001, 171-189	1
359 358 357 356 355	Fast Local Estimation of Optical Flow Using Variational and Wavelet Methods. 2001, 349-356 Optical Flow in Log-mapped Image Plane. 2001, 252-260 Optical Flow and Image Registration: A New Local Rigidity Approach for Global Minimization. 2001, 592-607 The Fusion of Image and Range Flow. 2001, 171-189 Neural Architecture for Mental Imaging of Sequences Based on Optical Flow Predictions. 2001, 885-890	1

351	Rotation-Invariant Optical Flow by Gaze-Depended Retino-Cortical Mapping. 2002 , 137-145	1
350	Using Optical Flow for Tracking. 2003 , 87-94	
349	Recovering in Video Documents. 2003 , 83-112	
348	Estimating Motion in Ultrasound Images of the Small Bowel: Optical Flow without Image Structure. 2003 , 571-578	
347	A Study on Automatic Filter Construction for Feature Extraction. 2003 , 123, 1564-1572	
346	Size-Variable Block Matching for Extracting Motion Information. 2003, 10B, 321-328	
345	Decision Fusion for Object Detection and Tracking Using Mobile Cameras. 2004 , 84-91	
344	Robust Video-Based Recognition of Dynamic Head Gestures in Various Domains ©Comparing a Rule-Based and a Stochastic Approach. 2004 , 180-197	
343	Fast Processing of Image Motion Patterns Arising from 3-D Translational Motion. 2004 , 273-287	
342	Evaluierung von AnsEzen der Bewegungs-detektion und -Verfolgung sedierter Patienten. 2004 , 244-248	1
341	Video Object Segmentation Using Multiple Features. 2004 , 597-604	
340	Optical Flow-Based Segmentation of Containers for Automatic Code Recognition. 2005 , 636-645	
339	Endocardial Tracking in Contrast Echocardiography Using Optical Flow. 2005 , 61-68	
338	Dominant Plane Detection Using Optical Flow and Independent Component Analysis. 2005, 487-496	3
337	Optical Flow Diffusion with Robustified Kernels. 2005 , 222-230	1
336	Speech Recognition Technology in Multimodal/Ubiquitous Computing Environments. 2005, 13-36	
335	Signal and Noise Adapted Filters for Differential Motion Estimation. 2005 , 476-484	2
334	Unsupervised Markovian Segmentation on Graphics Hardware. 2005 , 444-454	1

333	Segment and Browse: A Strategy for Supporting Human Monitoring of Facial Expression Behaviour. 2005 , 1120-1123	
332	A Definition of Terms. 2005 , 179-180	
331	MCFI-BASED ANIMATION TWEENING ALGORITHM. 2006 , 438-447	
330	A Generative Model of Dense Optical Flow in Layers. 2006 , 104-114	
329	Optical Flow Estimation Using Genetic Algorithms. 2006, 309-316	1
328	Spatio-temporal Composite-Features for Motion Analysis and Segmentation. 2006 , 332-343	
327	Towards a New Paradigm for Motion Extraction. 2006 , 743-754	3
326	Neural Net Based Division of an Image Blob of People into Parts of Constituting Individuals. 2006 , 491-499	
325	Kernel-Predictability: A New Information Measure and Its Application to Image Registration. 2006, 502-513	
324	Segmenting Images of Occluded Humans Using a Probabilistic Neural Network. 2006 , 457-462	
323	Decision Fusion of Shape and Motion Information Based on Bayesian Framework for Moving Object Classification in Image Sequences. 2006 , 19-28	
322	Optical Flow Computation with Fourth Order Partial Differential Equations. 2006 , 279-286	
321	A FEATURE BASED MOTION ESTIMATION FOR VEHICLE GUIDANCE. 2006 , 703-708	
320	A Robust 3D Face Pose Estimation and Facial Expression Control for Vision-Based Animation. 2006 , 700-708	2
319	Development of Emotion-Based Human Interaction Method for Intelligent Robot. 2006 , 16, 587-593	
318	A Probabilistic Formulation of Image Registration. 2007 , 165-176	
317	CLG Method for Optical Flow Estimation Based on Gradient Constancy Assumption. 2007, 57-66	
316	Mapping by Seeing [Wearable Vision-Based Dead-Reckoning, and Closing the Loop. 2007 , 29-45	

315	Deformable Model-Based Image Registration. 2007 , 517-541	
314	Comparison of Accumulative Computation with Traditional Optical Flow. 2007 , 447-454	
313	Matching Method Using the Edge with the Rigid Assumption. 2007 , 127, 577-582	
312	Data Analysis. 2007 , 1437-1491	
311	Metodologii para el Aniisis de Perfusiii Miociidica en la Coronariografii Mediante el Flujo Bitico. 2007 , 215-219	
310	Multiple Objection and Tracking based on Morphological Region Merging from Real-time Video Sequences. 2007 , 7, 40-50	
309	A model of an intelligent video-based security surveillance system for general indoor/outdoor environments. 2008 ,	
308	Human Region Segmentation Based on Bayesian Estimation Using Chroma and Thermal Video. 2008 , 62, 256-261	
307	Embedding of a Real Time Image Stabilization Algorithm on SoPC Platform, a Chip Multi-processor Approach. 2008 , 157-169	
306	Range Flow for Varying Illumination. 2008 , 509-522	3
305	Multi-Channel Satellite Image Analysis Using a Variational Approach. 2008 , 1071-1093	
304	Bibliography. 2008 , 185-201	
303	Development of a Real-Time Electro-Optical Reconnaissance System. 2008, 437-460	
302	Two-Frame Optical Flow Formulation in an Unwarping Multiresolution Scheme. 2009 , 790-797	2
301	Vision-based Position Control of a Two-rotor VTOL miniUAV. 2009 , 49-64	1
300	A Contour-Based Moving Object Detection. 2009 , 129, 812-817	
299	Statistical Motion Analysis. 2009 , 181-216	
298	FORTIFY METHOD OF MOVING OBJECT DETECTION BASED ON COLOR AND EDGE GEOMETRICAL FEATURES. 2009 , 1135-1143	

(2010-2009)

297	Estimation of Velocity Fields and Propagation on Non-Euclidian Domains: Application to the Exploration of Cortical Spatiotemporal Dynamics. 2009 , 203-226	
296	A Study on Stereo and Motion Data Accuracy for a Moving Platform. 2009 , 292-300	5
295	Encyclopedia of Biometrics. 2009 , 646-652	Ο
294	An Affine Optical Flow Model for Dynamic Surface Reconstruction. 2009 , 70-90	2
293	VR Based Movie Watching Method by Reproduction of Spatial Sensation. 2009 , 80-89	
292	Sensibility Analysis of an Object Movement Forecast Approximation in Real Image Sequences. 2009 , 350-357	
291	Combination of Geometrical and Statistical Methods for Visual Navigation of Autonomous Robots. 2009 , 209-234	
290	Optic Flow Using Multi-scale Anchor Points. 2009 , 1104-1112	
289	4. SoC?????????MX???????型?????. 2009 , 63, 1193-1195	
288	Pan-Tilt Motion Estimation Using Superposition-Type Spherical Compound-Like Eye. 2009 , 577-588	
287	Vision-based Target Tracking for UAV and Relative Depth Estimation using Optical Flow. 2009 , 37, 267-274	
286	Motion object detection based on optical flow field and level set. 2009 , 29, 972-975	1
285	SRAD, Optical Flow and Primitive Prior Based Active Contours for Echocardiography. 2010 , 158-171	
284	FPGA-Based Implementation of Real Time Optical Flow Algorithm and Its Applications for Digital Image Stabilization. 2010 , 3, 253-272	1
283	Improving Accuracy of Optical Flow of Heeger Original Method on Biomedical Images. 2010 , 263-273	1
282	Optical Flow Estimation and Counting Method of Moving Objects from a Real Environment Scene Enveloped by Infinite Number of Particle-like Patterns. 2010 , 64, 1731-1743	
281	Stabilization and Trajectory Tracking of a Quad-Rotor Using Vision. 2010 , 103-118	1
280	A New Algorithm of an Improved Detection of Moving Vehicles. 2010 , 688-693	

279	Improving Optical Flow Using Residual and Sobel Edge Images. 2010 , 215-222	1
278	High Accuracy Optical Flow Method Based on a Theory for Warping: 3D Extension. 2010 , 250-262	1
277	Attitudes Estimation for the Vision-based UAV using Optical Flow. 2010 , 38, 342-351	1
276	Optical Flow and Road Environments. 2010 , 440-449	
275	Feature extraction. 27-69	
274	An Improved Mean-shift Tracking Algorithm Based on Adaptive Multiple Feature Fusion. 2011 , 49-62	3
273	Object Detection and Tracking in Videos Using Snake and Optical Flow Approach. 2011 , 299-301	2
272	Segmentation-Assisted Registration for Brain MR Images. 2011 , 335-353	1
271	Improved Image Dominant Plane Extraction for Robot Navigation. 2011, 1-13	
270	Moving Object Segmentation Using Fuzzy C-Means Clustering Affine Parameters. 2011 , 205-210	
269	Optical Flow Reliability Model Approximated with RBF. 2011 , 90-97	
268	Depth-Wise Multi-layered 3D Modeling. 2011 , 407-414	
267	Image Processing to Detect and Classify Situations and States of Elderly People. 2011 , 163-172	О
266	Space Variant Representations for Mobile Platform Vision Applications. 2011 , 146-154	2
265	Bifocal Matching Using Multiple Geometrical Solutions. 2011 , 192-203	О
264	Motion Estimation of Carotid Artery Plaques. 2011 , 355-376	
263	Scene flow estimation from stereo video source. 2011 ,	
262	A pedagogical image processing tool to understand structural dynamics. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 1215-1224	0.3

261	Computationally Efficient Vehicle Tracking for Detecting Accidents in Tunnels. 2011, 197-202	
260	The Determination of Rainy Clouds Motion Using Optical Flow. 2011 , 179-191	
259	Illumination Invariant Motion Estimation and Segmentation. 2011, 78-87	
258	Specified Object Tracking in an Environment of Multiple Moving Objects using Particle Filter. 2011 , 21, 106-111	4
257	Fuzzy Testing of Independence in Bivariate Normal Distribution. 2011 , 21, 1-5	1
256	Face Segmentation Based on Skin Color in Complicated Background and Its Sex Recognition. 2011 , 6,	
255	Occluded Object Motion Tracking Method based on Combination of 3D Reconstruction and Optical Flow Estimation. 2011 , 21, 537-542	1
254	A Complete Confidence Framework for Optical Flow. 2012 , 124-133	3
253	Stochastic Models for Local Optical Flow Estimation. 2012 , 701-712	
252	Multi-phase Fusion of Visible-Infrared Information for Motion Detection. 2012 , 325-333	
251	Combining Kalman Filter with Mixture Color Model Tracking of Pallet Image. 2012 , 88-93	
250	Error Analysis for Lucas-Kanade Based Schemes. 2012 , 184-191	
249	Cardiac Motion Estimation Using Covariant Derivatives and Helmholtz Decomposition. 2012, 263-273	
248	Evaluating Motion Estimation Models from Behavioural and Psychophysical Data. 2012 , 483-496	
247	An Image Based Algorithm to Safely Locate Human Extremities for Human-Robot Collaboration. 2012 , 164-175	
246	An Improved Moving Target Detection Method and the Analysis of Influence Factors. 2012 , 323-333	
245	Occluded Object Motion Estimation System based on Particle Filter with 3D Reconstruction. 2012 , 12, 60-65	1
244	Motion Correction in Emission Tomography. 2012 , 157-183	1

243	Machine Vision Based Non-Magnetic Object Detection and Removal on Moving Conveyors in Steel Industry through Differential Techniques. 2012 , 2, 59-70
242	Distributed Data and Information Fusion in Visual Sensor Networks. 2012 , 435-466 2
241	CT, MRI and Image Processing Problems. 159-194
240	Inertial Systems. 2013 , 213-247
239	Back Matter. 2013 , 257-270
238	Surveillance of Crowded Environments: Modeling the Crowd by Its Global Properties. 2013, 295-324
237	Performance Scalable Motion Estimation for Video Coding. 2013, 50-75
236	When Is a Confidence Measure Good Enough?. 2013 , 344-353
235	Laplacian Derivative Based Regularization for Optical Flow Estimation in Driving Scenario. 2013 , 483-490
234	A Hybrid Architecture for Vision-Based Obstacle Avoidance. 2013 , 5, 697415
233	Comparative Analysis of Temporal Segmentation Methods of Video Sequences. 2013 , 43-58
232	Expression Intensity Recognition Based on Multilayer Hybrid Classifier. 2013 , 739-748
231	Optical Flow in Onboard Applications: A Study on the Relationship Between Accuracy and Scene Texture. 2013 , 257-267
230	Dynamic Speckle Tracking Based on B-spline Model. 2013 , 103-106
229	Real Time Mono-vision Based Customizable Virtual Keyboard Using Finger Tip Speed Analysis. 2013 , 497-505 1
228	Vision-Based Position Control of a Two-Rotor VTOL Mini UAV. 191-208
227	Optic Flow-Based Vision System for Autonomous 3D Localization and Control of Small Aerial Vehicles. 209-236
226	El flujo ptico como herramienta para el veleo-anlisis de fenenenos feicos. 6, 97

225	Optical Flow Estimation. 2014 , 41-93	
224	A Comparison Study on Different Crowd Motion Estimation Algorithms Using Matlab. 2014 , 327-334	
223	Case-Study: Bayesian 3D Independent Motion Segmentation with IMU-aided RBG-D Sensor. 2014 , 171-183	
222	Motion Estimation Algorithm for Blurred Image Using Gradient Filter. 2014 , 290-298	
221	The Research of Reducing Misregistration Based on Image Mosaicing. 2014 , 629-636	
220	Computer Vision-Based Non-Magnetic Object Detection on Moving Conveyors in Steel Industry through Differential Techniques and Performance Evaluation. 2014 , 247-261	
219	Efficiency Analysis of POC-Derived Bases for Combinatorial Motion Estimation. 2014 , 124-135	1
218	Space- and time-variant estimation approaches and the segmentation of the resulting optical flow fields. 1996 , 81-90	
217	Surface from Motion with Calibration. 1996 , 73-98	
216	Geometrically constrained optical flow estimation by an Hopfield neural network. 1996 , 735-740	
215	Dynamische Stereoanalyse. 1996 , 173-216	
214	Non uniform multiresolution method for optical flow computation. 1996 , 315-322	3
213	Adaptive motion estimation and video vector quantization based on spatiotemporal non-linearities of human perception. 1997 , 454-461	
212	Computation of time-varying motion and structure parameters from real image sequences. 1997 , 181-190	
211	Virtual Reality and Neural Networks. 1997 , 21-38	
210	Gradients, Curvature, and Visual Tracking. 1998 , 375-390	
209	Generalization to Novel Views from a Single Face Image. 1998 , 310-326	3
208	CyberGlass: Vision-Based VRML2 Navigator. 1998 , 81-87	_

207	Multi-Channel Adaptive Signal Processing of Colour Cinematographic Imagery. 1998, 193-198	
206	Compressive Computation in Analog VLSI Motion Sensors. 1998 , 564-571	1
205	Automatic Recognition of Camera Zooms. 1999 , 253-260	1
204	Bewegung als intrinsische Geometrie von Bildfolgen. 1999 , 301-308	3
203	Semi-Automated Construction of Virtual Scenes from Cinematographic Data. 1999 , 254-275	
202	Accurate Motion Estimation in Image Sequences: Massive vs. Distributed Parallelism. 1999 , 286-295	
201	A Wavelet Tour of Signal Processing - Pages 612-628. 1999 , 612-628	
200	Estimation of Image Motion with velocity tuned filters. 1999 , 1999, 175-178	
199	A Study on the Optical flow Method for Analysis of Ipper Airway Deformation from Magnetic Resonance Images for Children with Obstructive Sleep Apnea Syndrome. 2014 , 51, 201-209	
198	A LOCALIZED GLOBAL DEFORMATION MODEL TO TRACK MYOCARDIAL MOTION USING ECHOCARDIOGRAPHY. 2014 , 18, 181-192	
197	Bibliography. 309-392	
196	Motion Estimation. 2015 , 21-63	
195	Bibliography. 349-433	
194	Bibliography. 163-195	
193	Low Rank Analysis of Eye Image Sequence 🖪 Novel Basis for Face Liveness Detection. 2015 , 11-18	
192	Parallel Implementation of Dense Optical Flow Computation on Many-Core Processor. 2015 , 119-132	2
191	ATDT: Autonomous Template-Based Detection and Tracking of Objects from Airborne Camera. 2015 , 555-565	1
190	Complex background model and foreground detection based on random aggregation. 2015 , 64, 150701	2

189	Objects Detection and Tracking on the Level Crossing. 2015 , 245-255	3
188	Motion Estimation and Analysis. 65-101	
187	Motion Estimation Based on Artificial Bee Colony (ABC). 2016 , 23-51	
186	Prediction and Estimation of Vessel Movement Parameters Based on Video Monitoring. 2016,	
185	Image Capture and Representation. 2016 , 1-33	
184	Ground Truth Data, Content, Metrics, and Analysis. 2016 , 247-271	2
183	Taxonomy of Feature Description Attributes. 2016 , 167-186	
182	Vision Pipelines and Optimizations. 2016 , 273-317	1
181	Object Classification and Tracking in Real Time. 2016 , 250-295	
180	Optical flow and road environments: Implications for ergonomic road design. 2016 , 456-465	
179	Tracking Method for Moving Object Using Depth Picture. 2016 , 19, 774-779	
178	Alignment and Super Pixel Segmentation of RGB-D Video Stream. 2016,	
177	INDUSTRIAL MATHEMATICS IN ULTRASOUND IMAGING. 2016 , 20, 175-202	
176	Motion Estimation. 2017 , 95-116	
175	Video saliency detection algorithm based on biological visual feature and visual psychology theory. 2017 , 66, 109501	1
174	Real-Time Image Registration via Optical Flow Calculation. 2017 , 199-224	1
173	Content Coverage and Redundancy Removal in Video Summarization. 2017, 352-374	
172	Spectral Dichromatic Parameter Recovery from Two Views via Total Variation Hyper-priors. 2017 , 317-333	

171	A Survey of Motion Estimation Based on Optical Flow. 2017 , 06, 9-15	
170	orco mutagenesis causes loss of antennal lobe glomeruli and impaired social behavior in ants.	2
169	7 Cardiac Magnetic Resonance Cine Image Analysis. 2017 , 285-342	
168	Variational non rigid registration with bregman divergences. 2017,	
167	A photogrammetric technique for generation of an accurate multispectral optical flow dataset. 2017 ,	
166	Increasing feasibility of the field-programmable gate array implementation of an iterative image registration using a kernel-warping algorithm. 2017 , 26, 1	
165	Encyclopedia of Computational Neuroscience. 2018 , 1-13	1
164	Fast Aerial UAV Detection Based on Image Segmentation and HOG-FLD Feature Fusion. 2018 , 3, 106-114	1
163	Computer Vision-Based Non-Magnetic Object Detection on Moving Conveyors in Steel Industry Through Differential Techniques and Performance Evaluation. 2018 , 1820-1837	
162	Audio-Visual Source Separation with Alternating Diffusion Maps. 2018 , 365-382	
161	Performance Evaluation of various Temporal Derivatives for Stabilization of Videos with Large Moving Objects. 2018 ,	
160	Dynamic saliency detection via CNN and spatial-temporal fusion. 2018,	
159	Optical Flow Estimation in Synthetic Image Sequences Using Farneback Algorithm. 2019 , 363-371	1
158	Intra-operative Tumor Tracking Using Optical Flow and Fluorescent Imaging. 2019 , 79-84	
157	Detection of Small Moving Targets in Videos Using Skew Normal Mixture Model. 2019 , 322-330	
156	A Multi-frame Video Interpolation Neural Network for Large Motion. 2019 , 403-415	
155	Comparison of different machine learning models on feature extraction for human activity recognition from RGB-depth datasets. 2019 ,	
154	Quantifying peristaltic activity of a small intestine based on tracking of digests in an abdominal B-mode movie. 2019 ,	

153	Fight Detection in Crowd Scenes Based on Deep Spatiotemporal Features. 2020,	
152	Research on Moving Target Detection Based on ViBe Algorithm. 2020 ,	
151	Image-Aided Navigation ©oncepts and Applications. 2020, 1571-1595	
150	DEBM: Differential Evolution-Based Block Matching Algorithm. 2021 , 1-9	O
149	Progressively real-time video salient object detection via cascaded fully convolutional networks with motion attention. 2022 , 467, 465-475	2
148	U-RME: Underwater Refined Motion Estimation in Hazy, Cluttered and Dynamic Environments. 2020 , 198-208	O
147	Abnormal Events and Behavior Detection in Crowd Scenes Based on Deep Learning and Neighborhood Component Analysis Feature Selection. 2020 , 258-267	1
146	Integrated Microfluidic Flow Sensor for LAB-oN-CHIP and PoINT-oF-CARE Applications. 2020 , 36, 112-120	
145	Motion Analysis. 2020 , 479-598	
144	FPGA-Based Implementation of Optical Flow for Object Detection. 2020 , 53-61	
143	Background Subtraction Based on Principal Motion for a Freely Moving Camera. 2020, 67-78	1
142	Central Processing of Visual Information in Insects. 2020 , 140-198	
141	Physiologically-Inspired Neural Circuits for the Recognition of Dynamic Faces. 2020 , 168-179	O
140	Local Binary Pattern Networks. 2020 ,	1
139	AutoFlow: Learning a Better Training Set for Optical Flow. 2021 ,	8
138	Learning Accurate Dense Correspondences and When to Trust Them. 2021,	11
137	Probabilistic Model Distillation for Semantic Correspondence. 2021 ,	2
136	Gray consistency optical flow algorithm based on mask-R-CNN and a spatial filter for velocity calculation <i>Applied Optics</i> , 2021 , 60, 10600-10609	O

135	Computing. 2020,	
134	Object Classification and Tracking in Real Time. 1349-1394	
133	High-Level Information Fusion in Visual Sensor Networks. 197-223	2
132	Tracking Persons. 18-40	
131	Multimodal Video Characterization. 2005 , 61-110	
130	An Evaluation of Different Optical Flow Techniques for Myocardial Motion Analysis in B-Mode Echocardiography Images. 2008 , 506-510	3
129	Towards a Multi-camera Generalization of Brightness Constancy. 2004 , 78-90	2
128	Real-Time Face Pose Tracking and Facial Expression Synthesizing for the Animation of 3D Avatar. 2007 , 191-201	1
127	Phase-Based Feature Matching Under Illumination Variances. 2007 , 94-104	О
126	A Framework for Wrong Way Driver Detection Using Optical Flow. 2007 , 1117-1127	1
125	ICA-Based Image Analysis for Robot Vision. 2007 , 754-761	
124	Moving Target Detection and Labeling in Video Sequence Based on Spatial-Temporal Information Fusion. 2007 , 795-802	
123	Suitability of Edge Segment Based Moving Object Detection for Real Time Video Surveillance. 2007 , 526-533	
122	Simultaneous Estimation of Surface Motion, Depth and Slopes Under Changing Illumination. 2007 , 184-193	5
121	Independent Component Analysis of Layer Optical Flow and Its Application. 2007, 171-180	1
120	Nonlinear Analysis of Multi-Dimensional Signals: Local Adaptive Estimation of Complex Motion and Orientation Patterns. 2008 , 231-288	
119	3D Motion Estimation Using a Combination of Correlation and Variational Methods for PIV. 2007 , 612-620	1
118	Second Order Variational Optic Flow Estimation. 2007 , 646-653	

Scheme of Autonomous Vehicle Abnormal Behavior Detection Technology Based on Edge

117	Multiple Combined Constraints for Optical Flow Estimation. 2007, 11-20	
116	Optical Flow and Total Least Squares Solution for Multi-scale Data in an Over-Determined System. 2007 , 33-42	
115	Dynamic Multiresolution Optical Flow Computation. 2008, 1-15	2
114	The Role of Tactile Flow in Processing Dynamic Haptic Stimuli. 2008, 39-60	O
113	Automatic Design of Vision-Based Obstacle Avoidance Controllers Using Genetic Programming. 2008 , 25-36	3
112	Maximizing uniform translational motion: Motion estimation with the Haar transform and dynamic programming.	
111	Velocity estimation using semi-local features.	
110	Estimating image motion from smear: a sensor system and extensions.	1
109	A new method to compute the distortion vector field from two images.	
108	Robust computation of optical flow under non-uniform illumination variations.	
107	Temporally evaluated optical flow: study on accuracy.	
106	Multi-resolution genetic algorithm and its application in motion estimation.	
105	Supervised Method for Congestion Detection at Entry and Exit Corridors of Public Places. 2021 , 21, 2150019	
104	Fundamentals of Satellite Radiothermovision. 2021 , 41-88	
103	A Robust Pixel-Aware Gyro-Aided KLT Feature Tracker for Large Camera Motions. 2021 , 1-1	
102	High-gradient pattern image velocimetry (HGPIV). 2022 , 159, 104092	
101	Discontinuity Preserving Optical Flow Based on Anisotropic Operator. 2021,	
100	Ablation evolution of a new light weight silicon based thermal protection material in high temperature gas flow. 2021 , 48, 7136-7136	O

99 Cardiac motion estimation using multi-scale feature points. 2008,

98	Computational Biomechanics for Medicine III - Workshop proceedings. 2008 ,		
97	Diffeomorphic Demons Using ITK's Finite Difference Solver Hierarchy. The Insight Journal, 2008,		9
96	Active Contour-Based Segmentation of Head and Neck with Adaptive Atlas Selection. 2009,		1
95	Vision based Semantic Runway Segmentation from Simulation with Deep Convolutional Neural Networks. 2022 ,		O
94	An ITK Implementation of the Symmetric Log-Domain Diffeomorphic Demons Algorithm. <i>The Insight Journal</i> , 2010 ,		3
93	Highly Fluent Sign Language Synthesis Based on Variable Motion Frame Interpolation. 2020,		
92	A Duality Based Approach For Fractional Order Tv-Model In Optical Flow Estimation. 2020 ,		
91	Short Term Cloud Motion Forecast based on Boid's Algorithm for use in PV Output Prediction. 2021		1
90	Decelerated Dark Flow Measured Using Steady-State Free Precession Magnetic Resonance Imaging for Specific Detection of Left Ventricular Myocardial Strain and Dyssynchrony in Dilated Cardiomyopathy. <i>Cardiovascular Imaging Asia</i> , 2022 , 6, 4	0.2	
89	Flow-Based Rip Current Detection and Visualization. <i>IEEE Access</i> , 2022 , 10, 6483-6495	3.5	O
88	A physics perspective on collective animal behavior <i>Physical Biology</i> , 2022 ,	3	3
87	On air entrapment onset and surface velocity in high-speed turbulent prototype flows. <i>Flow Measurement and Instrumentation</i> , 2022 , 83, 102122	2.2	2
86	Motion detection for high-speed high-brightness objects based on a pulse array image sensor. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 113-122	2.2	
85	Performance Evaluation of Deformable Image Registration Algorithms Using Computed Tomography of Multiple Lung Metastases <i>Technology in Cancer Research and Treatment</i> , 2022 , 21, 15	33 0 338	3221078464
84	Rip current and channel detection using surfcams and optical flow. Shore and Beach, 2022, 50-58	0.8	
83	Fall detection method based on Spatio-temporal feature fusion using combined two-channel classification. <i>Multimedia Tools and Applications</i> , 1	2.5	1
82	Deep learning-based microexpression recognition: a survey. Neural Computing and Applications, 1	4.8	O

81	Minimax Monte Carlo object tracking. Visual Computer, 1	2.3	
80	High throughput architecture for multiscale variational optical flow. <i>Journal of Real-Time Image Processing</i> , 1	1.9	O
79	A point tracking method of TDDM for vibration measurement and large-scale rotational motion tracking. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 193, 110827	4.6	О
78	FlowNetU: Accurate Uncertainty Estimation of Optical Flow for Video Object Detection. 2021,		
77	Learning to Remove Refractive Distortions from Underwater Images. 2021,		О
76	Deep Learning based Effective Identification of EU-GDPR Compliant Privacy Safeguards in Surveillance Videos. 2021 ,		1
75	Three-dimensional tumour microenvironment reconstruction and tumour-immune interactions' analysis. 2021 ,		1
74	Visual Feature Learning on Video Object and Human Action Detection: A Systematic Review <i>Micromachines</i> , 2021 , 13,	3.3	3
73	Simple Online Real-Time Tracking Algorithm with Improved YOLOV4 as Extractor. 2021,		
72	A comparative study of optical flow methods for fluid mechanics. <i>Experiments in Fluids</i> , 2022 , 63, 1	2.5	О
71	Development of an IR Video Surveillance System Based on Fractional Order TV-Model. 2021,		2
70	Hardware Analysis for Motion Estimation Task. Applied Optics,	1.7	
69	Pedestrian Abnormal Behaviour Detection Based on Machine Vision. <i>Journal of Physics:</i> Conference Series, 2022 , 2224, 012019	0.3	
68	High-precision pixelwise SAR-optical image registration via flow fusion estimation based on an attention mechanism. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022 , 1-1	4.7	1
67	Dilated Convolutional Neural Network-Based Deep Reference Picture Generation for Video Compression. 2022 ,		
66	Optical flow driven interpolation for isotropic FIB-SEM reconstructions <i>Computer Methods and Programs in Biomedicine</i> , 2022 , 221, 106856	6.9	O
65	A nonlinear modeling of fractional order based variational model in optical flow estimation. <i>Optik</i> , 2022 , 261, 169136	2.5	2
64	Spatiotemporal flow features in gravity currents using computer vision methods. <i>Computers and Geosciences</i> , 2022 , 105146	4.5	

63	An overview of Human Action Recognition in sports based on Computer Vision. <i>Heliyon</i> , 2022 , e09633	3.6	2
62	A Comprehensive Taxonomy of Dynamic Texture Representation. <i>ACM Computing Surveys</i> , 2023 , 55, 1-39	13.4	О
61	Nanoscale defect evaluation framework combining real-time transmission electron microscopy and integrated machine learning-particle filter estimation. <i>Scientific Reports</i> , 2022 , 12,	4.9	
60	Accuracy of phase-based optical flow for vibration extraction. <i>Journal of Sound and Vibration</i> , 2022 , 535, 117112	3.9	O
59	Cell rotation. 2022 , 213-241		
58	3D Shape Perception, Models of. 2022 , 3091-3103		
57	Optic Flow Processing. 2022 , 2539-2558		О
56	Optical flow estimation technique for hazy scenes. 2022 ,		
55	PPNet: A more effective method of precipitation prediction. <i>Meteorological Applications</i> , 2022 , 29,	2.1	
54	The Luria-Nebraska Neuropsychological Battery Neuromotor Tasks: From Conventional to Image-Derived Measures. <i>Brain Sciences</i> , 2022 , 12, 757	3.4	
53	Optical-Flow based Analysis for Range Hoods captured Flow Measurement. <i>Journal of Physics: Conference Series</i> , 2022 , 2293, 012013	0.3	
52	Digital Image Correlation with a Neuromorphic Event-Based Imager. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2023 , 73-79	0.3	
51	A dual-branch neural network for DeepFake video detection by detecting spatial and temporal inconsistencies. <i>Multimedia Tools and Applications</i> ,	2.5	
50	Predicting post-contrast information from contrast agent free cardiac MRI using machine learning: Challenges and methods. <i>Frontiers in Cardiovascular Medicine</i> , 9,	5.4	O
49	Depsobm: Block Matching Algorithm Based on Differential Evolution and Pso for Video Sequences.		
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