

# Raimondo Schettini

## List of Publications by Year in descending order

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Version: 2024-02-01

196  
papers

5,165  
citations

136950

32  
h-index

118850

62  
g-index

204  
all docs

204  
docs citations

204  
times ranked

3568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Underwater Image Processing: State of the Art of Restoration and Image Enhancement Methods. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	411
2	Quantitative evaluation of color image segmentation results. Pattern Recognition Letters, 1998, 19, 741-747.	4.2	299
3	3D face detection using curvature analysis. Pattern Recognition, 2006, 39, 444-455.	8.1	249
4	On the use of deep learning for blind image quality assessment. Signal, Image and Video Processing, 2018, 12, 355-362.	2.7	212
5	Anomaly Detection in Nanofibrous Materials by CNN-Based Self-Similarity. Sensors, 2018, 18, 209.	3.8	194
6	Food Recognition: A New Dataset, Experiments, and Results. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 588-598.	6.3	164
7	An innovative algorithm for key frame extraction in video summarization. Journal of Real-Time Image Processing, 2006, 1, 69-88.	3.5	159
8	<title>Image annotation using SVM</title> . , 2003, , .		148
9	Color constancy using CNNs. , 2015, , .		131
10	Combination of Video Change Detection Algorithms by Genetic Programming. IEEE Transactions on Evolutionary Computation, 2017, 21, 914-928.	10.0	126
11	Improving Color Constancy Using Indoor“Outdoor Image Classification. IEEE Transactions on Image Processing, 2008, 17, 2381-2392.	9.8	112
12	Single and Multiple Illuminant Estimation Using Convolutional Neural Networks. IEEE Transactions on Image Processing, 2017, 26, 4347-4362.	9.8	106
13	Automatic color constancy algorithm selection and combination. Pattern Recognition, 2010, 43, 695-705.	8.1	97
14	Color balancing of digital photos using simple image statistics. Pattern Recognition, 2004, 37, 1201-1217.	8.1	94
15	Deep learning for logo recognition. Neurocomputing, 2017, 245, 23-30.	5.9	87
16	A segmentation algorithm for color images. Pattern Recognition Letters, 1993, 14, 499-506.	4.2	81
17	UMB-DB: A database of partially occluded 3D faces. , 2011, , .		81
18	CNN-based features for retrieval and classification of food images. Computer Vision and Image Understanding, 2018, 176-177, 70-77.	4.7	81

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19	A relevance feedback mechanism for content-based image retrieval. Information Processing and Management, 1999, 35, 605-632.	8.6	74
20	An interactive tool for manual, semi-automatic and automatic video annotation. Computer Vision and Image Understanding, 2015, 131, 88-99.	4.7	72
21	Image registration by recognition of corresponding structures. IEEE Transactions on Geoscience and Remote Sensing, 1990, 28, 305-314.	6.3	70
22	Self-Adaptive Image Cropping for Small Displays. IEEE Transactions on Consumer Electronics, 2007, 53, 1622-1627.	3.6	70
23	Structural similarity index (SSIM) revisited: A data-driven approach. Expert Systems With Applications, 2022, 189, 116087.	7.6	70
24	Color-based image retrieval using spatial-chromatic histograms. Image and Vision Computing, 2001, 19, 979-986.	4.5	64
25	Contrast image correction method. Journal of Electronic Imaging, 2010, 19, 023005.	0.9	55
26	Evaluating color texture descriptors under large variations of controlled lighting conditions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 17.	1.5	51
27	Skin segmentation using multiple thresholding. , 2006, 6061, 128.		46
28	Adaptive Color Constancy Using Faces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1505-1518.	13.9	46
29	How Far Can You Get by Combining Change Detection Algorithms?. Lecture Notes in Computer Science, 2017, , 96-107.	1.3	45
30	No reference image quality classification for JPEG-distorted images. , 2014, 30, 86-100.		43
31	Learning CNN-based Features for Retrieval of Food Images. Lecture Notes in Computer Science, 2017, , 426-434.	1.3	40
32	Fuzzy reasoning approach to similarity evaluation in image analysis. International Journal of Intelligent Systems, 1993, 8, 749-769.	5.7	38
33	A New Method for RGB to XYZ Transformation Based on Pattern Search Optimization. IEEE Transactions on Consumer Electronics, 2007, 53, 1020-1028.	3.6	38
34	Combining local binary patterns and local color contrast for texture classification under varying illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1453.	1.5	38
35	Three-Dimensional Occlusion Detection and Restoration of Partially Occluded Faces. Journal of Mathematical Imaging and Vision, 2011, 40, 105-119.	1.3	37
36	Gappy PCA Classification for Occlusion Tolerant 3D Face Detection. Journal of Mathematical Imaging and Vision, 2009, 35, 193-207.	1.3	36

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37	Content-based similarity retrieval of trademarks using relevance feedback. Pattern Recognition, 2001, 34, 1639-1655.	8.1	35
38	Logo Recognition Using CNN Features. Lecture Notes in Computer Science, 2015, , 438-448.	1.3	32
39	Browsing museum image collections on a multi-touch table. Information Systems, 2012, 37, 169-182.	3.6	31
40	Color correction pipeline optimization for digital cameras. Journal of Electronic Imaging, 2013, 22, 023014.	0.9	31
41	Local detectors and compact descriptors for visual search: A quantitative comparison. , 2015, 44, 1-13.		31
42	AUTOMATIC CLASSIFICATION OF DIGITAL PHOTOGRAPHS BASED ON DECISION FORESTS. International Journal of Pattern Recognition and Artificial Intelligence, 2004, 18, 819-845.	1.2	30
43	Image orientation detection using LBP-based features and logistic regression. Multimedia Tools and Applications, 2015, 74, 3013-3034.	3.9	30
44	Quicklook2: An Integrated Multimedia System. Journal of Visual Languages and Computing, 2001, 12, 81-103.	1.8	29
45	A Novel Approach to Data Augmentation for Pavement Distress Segmentation. Computers in Industry, 2020, 121, 103225.	9.9	29
46	Food Recognition and Leftover Estimation for Daily Diet Monitoring. Lecture Notes in Computer Science, 2015, , 334-341.	1.3	29
47	Color space transformations for digital photography exploiting information about the illuminant estimation process. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 374.	1.5	28
48	Multitask painting categorization by deep multibranch neural network. Expert Systems With Applications, 2019, 135, 90-101.	7.6	28
49	Colorimetric calibration of color scanners by back-propagation. Pattern Recognition Letters, 1995, 16, 1051-1056.	4.2	27
50	Improving CNN-Based Texture Classification by Color Balancing. Journal of Imaging, 2017, 3, 33.	3.0	27
51	Detection and Restoration of Occlusions for 3D Face Recognition. , 2006, , .		26
52	Combining multiple features for color texture classification. Journal of Electronic Imaging, 2016, 25, 061410.	0.9	26
53	An affordable multispectral imaging system for the digital museum. International Journal on Digital Libraries, 2005, 5, 167-178.	1.5	25
54	Halfway through the semantic gap: Prosemantic features for image retrieval. Information Sciences, 2011, 181, 4943-4958.	6.9	25

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55	Predicting Image Aesthetics with Deep Learning. Lecture Notes in Computer Science, 2016, , 117-125.	1.3	25
56	Benchmarking algorithms for food localization and semantic segmentation. International Journal of Machine Learning and Cybernetics, 2020, 11, 2827-2847.	3.6	25
57	A hierarchical classification strategy for digital documents. Pattern Recognition, 2002, 35, 1759-1769.	8.1	24
58	Retinex preprocessing of uncalibrated images for color-based image retrieval. Journal of Electronic Imaging, 2003, 12, 161.	0.9	22
59	Multicolored object recognition and location. Pattern Recognition Letters, 1994, 15, 1089-1097.	4.2	21
60	Robust smile detection using convolutional neural networks. Journal of Electronic Imaging, 2016, 25, 063002.	0.9	19
61	A Multi-Task CNN Framework for Driver Face Monitoring. , 2018, , .		19
62	Deep Residual Autoencoder for Blind Universal JPEG Restoration. IEEE Access, 2020, 8, 63283-63294.	4.2	19
63	Spatial Sampling Network for Fast Scene Understanding. , 2019, , .		18
64	Remote Sensing Image Classification Exploiting Multiple Kernel Learning. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2331-2335.	3.1	17
65	Supervised And Unsupervised Classification Post-Processing for Visual Video Summaries. IEEE Transactions on Consumer Electronics, 2006, 52, 630-638.	3.6	16
66	Neural architecture search for image saliency fusion. Information Fusion, 2020, 57, 89-101.	19.1	16
67	An algorithm for the selection of high-contrast color sets. Color Research and Application, 1999, 24, 132-138.	1.6	15
68	Adaptive Skin Classification Using Face and Body Detection. IEEE Transactions on Image Processing, 2015, 24, 4756-4765.	9.8	15
69	From Color Sensor Space to Feasible Reflectance Spectra. IEEE Transactions on Signal Processing, 2008, 56, 518-531.	5.3	14
70	A Review of Redeye Detection and Removal in Digital Images Through Patents. Recent Patents on Electrical Engineering, 2009, 2, 45-53.	0.4	14
71	Learning Parametric Functions for Color Image Enhancement. Lecture Notes in Computer Science, 2019, , 209-220.	1.3	14
72	Knowledge-based contextual recognition and sieving of digital images. Pattern Recognition Letters, 1989, 10, 101-110.	4.2	13

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73	How to assess image quality within a workflow chain: an overview. International Journal on Digital Libraries, 2014, 15, 1-25.	1.5	13
74	No-Reference Quality Assessment of In-Capture Distorted Videos. Journal of Imaging, 2020, 6, 74.	3.0	13
75	Artistic photo filter removal using convolutional neural networks. Journal of Electronic Imaging, 2017, 27, 1.	0.9	13
76	Intensity and color descriptors for texture classification. Proceedings of SPIE, 2013, , .	0.8	12
77	Evaluating CNN-Based Semantic Food Segmentation Across Illuminants. Lecture Notes in Computer Science, 2019, , 247-259.	1.3	12
78	Cooking Action Recognition with iVAT: An Interactive Video Annotation Tool. Lecture Notes in Computer Science, 2013, , 631-641.	1.3	11
79	Semantic Food Segmentation for Automatic Dietary Monitoring. , 2018, , .		11
80	A CNN Architecture for Efficient Semantic Segmentation of Street Scenes. , 2018, , .		10
81	Smart Photo Sticking. Lecture Notes in Computer Science, 2008, , 211-223.	1.3	10
82	<title>On the detection of pornographic digital images</title>. , 2003, , .		9
83	A computational strategy exploiting genetic algorithms to recover color surface reflectance functions. Neural Computing and Applications, 2006, 16, 69-79.	5.6	9
84	Recognizing Faces In 3D Images Even In Presence Of Occlusions. , 2008, , .		9
85	Error-Tolerant Color Rendering for Digital Cameras. Journal of Mathematical Imaging and Vision, 2014, 50, 235-245.	1.3	9
86	Deep Multibranch Neural Network for Painting Categorization. Lecture Notes in Computer Science, 2017, , 414-423.	1.3	9
87	Learning Illuminant Estimation from Object Recognition. , 2018, , .		9
88	A unifying representation for pixel-precise distance estimation. Multimedia Tools and Applications, 2019, 78, 13767-13786.	3.9	9
89	<title>Dynamic key-frame extraction for video summarization</title>. , 2005, 5670, 137.		8
90	Dynamic storyboards for video content summarization. , 2006, , .		8

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91	T1K+: A Database for Benchmarking Color Texture Classification and Retrieval Methods. Sensors, 2021, 21, 1010.	3.8	8
92	An Efficient Method for No-Reference Video Quality Assessment. Journal of Imaging, 2021, 7, 55.	3.0	8
93	Color specification by visual interaction. Visual Computer, 1992, 9, 143-150.	3.5	7
94	Deriving Spectral, Reflectance Functions of Computer-Simulated Object Colours. Computer Graphics Forum, 1994, 13, 211-217.	3.0	7
95	A recall or precision oriented skin classifier using binary combining strategies. Pattern Recognition, 2005, 38, 2204-2207.	8.1	7
96	Face <sup>3</sup> a 2D+3D Robust Face Recognition System. , 2007, , .		7
97	Noisy images-JPEG compressed: subjective and objective image quality evaluation. Proceedings of SPIE, 2014, , .	0.8	7
98	On Comparing Color Spaces for Food Segmentation. Lecture Notes in Computer Science, 2017, , 435-443.	1.3	7
99	Fine-Grained Face Annotation Using Deep Multi-Task CNN. Sensors, 2018, 18, 2666.	3.8	7
100	No Reference, Opinion Unaware Image Quality Assessment by Anomaly Detection. Sensors, 2021, 21, 994.	3.8	7
101	General Purpose Optimization Library (GPOL): A Flexible and Efficient Multi-Purpose Optimization Library in Python. Applied Sciences (Switzerland), 2021, 11, 4774.	2.5	7
102	Local Angular Patterns for Color Texture Classification. Lecture Notes in Computer Science, 2015, , 111-118.	1.3	7
103	Classification-Based Color Constancy. Lecture Notes in Computer Science, 2008, , 104-113.	1.3	7
104	A Smart Mirror for Emotion Monitoring in Home Environments. Sensors, 2021, 21, 7453.	3.8	7
105	<title>Innovative method for spectral-based printer characterization</title>. , 2001, 4663, 1.		6
106	A modular procedure for automatic red eye correction in digital photos. , 2003, , .		6
107	Reflectance function estimation from tristimulus values. , 2003, , .		6
108	Empirical modeling for colorimetric characterization of digital cameras. , 2009, , .		6

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109	On the use of supervised features for unsupervised image categorization: An evaluation. Computer Vision and Image Understanding, 2014, 122, 155-171.	4.7	6
110	Recognition of Edible Vegetables and Fruits for Smart Home Appliances. , 2018, , .		6
111	A Genetic Algorithm to Combine Deep Features for the Aesthetic Assessment of Images Containing Faces. Sensors, 2021, 21, 1307.	3.8	6
112	Semi-supervised anomaly detection for visual quality inspection. Expert Systems With Applications, 2021, 183, 115275.	7.6	6
113	Intangible Heritage Management and Multimodal Navigation. , 0, , 85-118.		6
114	A system for the automatic selection of conspicuous color sets for qualitative data display. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2283-2286.	6.3	5
115	<title>Multimedia search engine with relevance feedback</title>. , 2001, , .		5
116	<title>Image retrieval using dynamic spatial chromatic histograms</title>. , 2003, , .		5
117	Image orientation detection using low-level features and faces. Proceedings of SPIE, 2010, , .	0.8	5
118	Grouping strategies to improve the correlation between subjective and objective image quality data. , 2013, , .		5
119	Computational Strategies for Skin Detection. Lecture Notes in Computer Science, 2013, , 199-211.	1.3	5
120	Blind quality assessment of authentically distorted images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, B1.	1.5	5
121	<title>Prefiltering with Retinex in color image retrieval</title>. , 2000, , .		4
122	<title>Innovative algorithm for cast detection</title>. , 2001, 4672, 280.		4
123	Gamut boundary determination for a color printer using the Face Triangulation Method. , 2003, , .		4
124	Selection of filters for multispectral acquisition using the filter vectors analysis method. , 2003, , .		4
125	Semantic 3D Face Mesh Simplification for Transmission and Visualization. , 2006, , .		4
126	Sampling Optimization for Printer Characterization by Direct Search. IEEE Transactions on Image Processing, 2012, 21, 4868-4873.	9.8	4



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127	Artistic Photo Filtering Recognition Using CNNs. Lecture Notes in Computer Science, 2017, , 249-258.	1.3	4
128	IVLFood-WS: Recognizing food in the wild using Deep Learning. , 2018, , .		4
129	Aesthetics Assessment of Images Containing Faces. , 2018, , .		4
130	On the Robustness of Color Texture Descriptors across Illuminants. Lecture Notes in Computer Science, 2013, , 652-662.	1.3	4
131	Turning a Digital Camera into an Absolute 2D Tele-Colorimeter. Computer Graphics Forum, 2019, 38, 73-86.	3.0	4
132	Content Aware Image Enhancement. Lecture Notes in Computer Science, 2007, , 686-697.	1.3	4
133	Faithful cross-media color matching using neural networks. Pattern Recognition, 1999, 32, 465-476.	8.1	3
134	Tunable cast remover for digital photographs. , 2003, , .		3
135	Color transfer using semantic image annotation. Proceedings of SPIE, 2012, , .	0.8	3
136	A no-reference metric for demosaicing artifacts that fits psycho-visual experiments. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.7	3
137	Unsupervised color coding for visualizing image classification results. Information Visualization, 2018, 17, 161-177.	1.9	3
138	Semantic segmentation of food images for automatic dietary monitoring. , 2018, , .		3
139	Evaluation of Automatic Image Color Theme Extraction Methods. Lecture Notes in Computer Science, 2019, , 165-179.	1.3	3
140	CNN-Based Refactoring of Hand-Designed Filters for Texture Analysis: A Classic Revisited. IEEE Access, 2019, 7, 173076-173085.	4.2	3
141	Illumination estimation challenge: The experience of the first 20 years. Color Research and Application, 2021, 46, 705-718.	1.6	3
142	An Evolutionary Framework for Colorimetric Characterization of Scanners. Lecture Notes in Computer Science, 2008, , 245-254.	1.3	3
143	Region-Based Illuminant Estimation for Effective Color Correction. Lecture Notes in Computer Science, 2009, , 43-52.	1.3	3
144	Prosemantic Features for Content-Based Image Retrieval. Lecture Notes in Computer Science, 2011, , 87-100.	1.3	3

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145	Approximating the CIECAM97s color appearance model by means of neural networks. Image and Vision Computing, 2001, 19, 691-697.	4.5	2
146	Spectral-based printer modeling and characterization. Journal of Electronic Imaging, 2005, 14, 023008.	0.9	2
147	Multidomain pixel analysis for illuminant estimation and compensation. , 2006, 6069, 115.		2
148	Combining Strategies for Automatic White Estimation in Real Images. , 2007, , .		2
149	Multiple image thumbnailing. , 2010, , .		2
150	Image quality: a tool for no-reference assessment methods. Proceedings of SPIE, 2011, , .	0.8	2
151	A sharpness measure on automatically selected edge segments. , 2012, , .		2
152	Quantitative review of local descriptors for visual search. , 2013, , .		2
153	A semi-automatic annotation tool for cooking video. Proceedings of SPIE, 2013, , .	0.8	2
154	Scoring recognizability of faces for security applications. Proceedings of SPIE, 2014, , .	0.8	2
155	Absolute colorimetric characterization of a DSLR camera. , 2014, , .		2
156	Face-Based Illuminant Estimation. Lecture Notes in Computer Science, 2012, , 623-626.	1.3	2
157	Genetic Algorithms for Training Data and Polynomial Optimization in Colorimetric Characterization of Scanners. Lecture Notes in Computer Science, 2010, , 282-291.	1.3	2
158	An analysis of spectral similarity measures. Color and Imaging Conference, 2021, 2021, 300-305.	0.2	2
159	Genetic programming for structural similarity design at multiple spatial scales. , 2022, , .		2
160	Pictorial Editing by Shape Matching Techniques. Computer Graphics Forum, 1993, 12, 111-122.	3.0	1
161	<title>System for the automatic selection of conspicuous color sets for qualitative data display and visual interface design</title>. , 2000, , .		1
162	Using genetic algorithms for spectral-based printer characterization. , 2003, , .		1

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163	<title>Semantic labeling of digital photos by classification</title>. , 2003, , .		1
164	Using recovered reflectance to predict color. , 2005, , .		1
165	FaceLab: a tool for performance evaluation of face recognition strategies. , 2006, 6061, 280.		1
166	Emerging Methods for Color Image and Video Quality Enhancement. Eurasip Journal on Image and Video Processing, 2010, 2010, 1-2.	2.6	1
167	A Fully Convolutional Network for Salient Object Detection. Lecture Notes in Computer Science, 2017, , 82-92.	1.3	1
168	On the Cooperative Creation of Multimedia Meaning. Lecture Notes in Computer Science, 2009, , 28-39.	1.3	1
169	Analyzing color harmony of food images. Color and Imaging Conference, 2019, 2019, 369-374.	0.2	1
170	Quality of Images. Data-centric Systems and Applications, 2016, , 113-135.	0.2	1
171	Autocropping: A Closer Look at Benchmark Datasets. Lecture Notes in Computer Science, 2019, , 315-325.	1.3	1
172	<title>Retrieving similar color images</title>. , 1998, 3409, 339.		0
173	<title>New classification strategy for color documents</title>. , 2000, 4311, 70.		0
174	<title>Quicklook<sup>2</sup>: an integrated multimedia system with learning capabilities</title>. , 2001, , .		0
175	Special Section on Internet Imaging. Journal of Electronic Imaging, 2002, 11, 421.	0.9	0
176	<title>Tri-dimensional face detection and localization</title>. , 2005, , .		0
177	An experience in multispectral mosaicing. , 2005, , .		0
178	Accounting for Inks Interaction in the Yule-Nielsen Spectral Neugebauer Model. Journal of Imaging Science and Technology, 2006, 50, 35.	0.5	0
179	No-reference metrics for JPEG: analysis and refinement using wavelets. Proceedings of SPIE, 2010, , .	0.8	0
180	No-reference metrics for demosaicing. Proceedings of SPIE, 2010, , .	0.8	0

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181	Towards the design of low cost colorimetric imaging device. , 2011, , .		0
182	Spatially organized visualization of image query results. Proceedings of SPIE, 2011, , .	0.8	0
183	Adaptive contrast enhancement for underexposed images. , 2011, , .		0
184	Automatic annotation of outdoor photographs. Proceedings of SPIE, 2011, , .	0.8	0
185	Searching through photographic databases with QuickLook. , 2012, , .		0
186	Bio-inspired framework for automatic image quality enhancement. Proceedings of SPIE, 2012, , .	0.8	0
187	Object detection using feature-based template matching. Proceedings of SPIE, 2013, , .	0.8	0
188	Special Section Guest Editorial:Color in Texture and Material Recognition. Journal of Electronic Imaging, 2016, 25, 061401.	0.9	0
189	On the Importance of Domain Adaptation in Texture Classification. Lecture Notes in Computer Science, 2017, , 380-390.	1.3	0
190	Who Is in the Crowd? Deep Face Analysis for Crowd Understanding. Lecture Notes in Computer Science, 2021, , 487-494.	1.3	0
191	Analyzing and Recognizing Food in Constrained and Unconstrained Environments. , 2021, , .		0
192	Hierarchical Browsing of Video Key Frames. Lecture Notes in Computer Science, 2007, , 691-694.	1.3	0
193	Prosesemantic Image Retrieval. Lecture Notes in Computer Science, 2012, , 643-646.	1.3	0
194	Computational Color Constancy. , 2015, , 5879-5886.		0
195	High-Level Features for Image Indexing and Retrieval. , 2015, , 5916-5925.		0
196	RGB-D-Î»: 3D Multispectral Acquisition with Stereo RGB Cameras. , 2016, , .		0