Domingo Mery

List of Publications by Year
in descending order

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130 papers	3,654 citations	186265 28 h-index	155660 55 g-index
139 all docs	139 docs citations	139 times ranked	2865 citing authors

#	Article	IF	Citations
1	Identification of hemodynamic biomarkers for bicuspid aortic valve induced aortic dilation using machine learning. Computers in Biology and Medicine, 2022, 141, 105147.	7.0	6
2	Fair Face Verification by Using Non-Sensitive Soft-Biometric Attributes. IEEE Access, 2022, 10, 30168-30179.	4.2	0
3	Target Detection by Target Simulation in X-ray Testing. Journal of Nondestructive Evaluation, 2022, 41, 1.	2.4	9
4	Multi-scale flow structure of a strike-slip tectonic setting: A self-similar model for the LiquiÃ±e-Ofqui Fault System and the Andean Transverse Faults, Southern Andes (39â€“40Â°S). Geothermics, 2022, 103, 102424.	3.4	1
5	A novel online self-learning system with automatic object detection model for multimedia applications. Multimedia Tools and Applications, 2021, 80, 16659-16681.	3.9	1
6	Detection of threat objects in baggage inspection with X-ray images using deep learning. Neural Computing and Applications, 2021, 33, 7803-7819.	5.6	25
7	Computer Vision for X-Ray Testing. , 2021, , .		7
8	An Efficient Point-Matching Method Based on Multiple Geometrical Hypotheses. Electronics (Switzerland), 2021, 10, 246.	3.1	1
9	Informative Bayesian model selection for RR Lyrae star classifiers. Monthly Notices of the Royal Astronomical Society, 2021, 503, 484-497.	4.4	2
10	Aluminum Casting Inspection using Deep Object Detection Methods and Simulated Ellipsoidal Defects. Machine Vision and Applications, 2021, 32, 1.	2.7	19
11	Automated Threat Objects Detection with Synthetic Data for Real-Time X-ray Baggage Inspection. , 2021, , .		4
12	Image Analysis Reveals That Lenticel Damage Does Not Result in Black Spot Development but Enhances Dehydration in Persea americana Mill. cv. Hass during Prolonged Storage. Agronomy, 2021, 11, 1699.	3.0	7
13	Applications in X-ray Testing. , 2021, , 375-436.		3
14	Classification in X-Ray Testing. , 2021, , 227-273.		0
15	Simulation in X-ray Testing. , 2021, , 337-373.		0
16	Geometry in X-ray Testing. , 2021, , 65-123.		0
17	Images for X-ray Testing. , 2021, , 43-63.		0
18	X-Ray Image Processing. , 2021, , 125-167.		0

#	Article	IF	Citations
19	X-ray Image Representation. , 2021, , 169-226.		0
20	X-ray Testing. , 2021, , 1-41.		0
21	Digital Rock Approach to Model the Permeability in an Artificially Heated and Fractured Granodiorite from the LiquiÃ±e Geothermal System (39Â°S). Rock Mechanics and Rock Engineering, 2020, 53, 1179-1204.	5.4	8
22	X-Ray Baggage Inspection With Computer Vision: A Survey. IEEE Access, 2020, 8, 145620-145633.	4.2	45
23	Aluminum Casting Inspection Using Deep Learning: A Method Based on Convolutional Neural Networks. Journal of Nondestructive Evaluation, 2020, 39, 1.	2.4	40
24	Face Analysis: State of the Art and Ethical Challenges. Lecture Notes in Computer Science, 2020, , 14-29.	1.3	1
25	Identity Document to Selfie Face Matching Across Adolescence. , 2020, , .		1
26	Handgun Detection in Single-Spectrum Multiple X-ray Views Based on 3D Object Recognition. Journal of Nondestructive Evaluation, 2019, 38, 1.	2.4	11
27	Student Attendance System in Crowded Classrooms Using a Smartphone Camera. , 2019, , .		28
28	Face recognition in low-quality images using adaptive sparse representations. Image and Vision Computing, 2019, 85, 46-58.	4.5	20
29	Characterization of spinal cord damage based on automatic video analysis of froglet swimming. Biology Open, 2019, 8, .	1.2	0
30	On Low-Resolution Face Recognition in the Wild: Comparisons and New Techniques. IEEE Transactions on Information Forensics and Security, 2019, 14, 2000-2012.	6.9	105
31	Palaeopermeability anisotropy and geometrical properties of sealed-microfractures from micro-CT analyses: An open-source implementation. Micron, 2019, 117, 29-39.	2.2	6
32	Detecting and characterizing upwelling filaments in a numerical ocean model. Computers and Geosciences, 2019, 122, 25-34.	4.2	7
33	A Robust Face Recognition System for One Sample Problem. Lecture Notes in Computer Science, 2019, , 13-26.	1.3	8
34	One-dimensional local binary pattern based color descriptor to classify stress values from photoelasticity videos. , 2019, , .		1
35	A fast and self-adaptive on-line learning detection system. Procedia Computer Science, 2018, 144, 13-22.	2.0	3
36	Recognition of Faces and Facial Attributes Using Accumulative Local Sparse Representations. , 2018, , .		1

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37	Face Recognition Using Sparse Fingerprint Classification Algorithm. IEEE Transactions on Information Forensics and Security, 2017, 12, 1646-1657.	6.9	31
38	The impact of MEG source reconstruction method on source-space connectivity estimation: A comparison between minimum-norm solution and beamforming. NeuroImage, 2017, 156, 29-42.	4.2	79
39	Automatic Defect Recognition in X-Ray Testing Using Computer Vision. , 2017, , .		53
40	Modern Computer Vision Techniques for X-Ray Testing in Baggage Inspection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 682-692.	9.3	117
41	A Logarithmic X-Ray Imaging Model for Baggage Inspection: Simulation and Object Detection. , 2017, , .		23
42	Comparing Neural and Attractiveness-based Visual Features for Artwork Recommendation. , 2017, , .		13
43	Threat Objects Detection in X-ray Images Using an Active Vision Approach. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	19
44	Learning face similarity for re-identification from real surveillance video: A deep metric solution. , 2017, , .		9
45	A Method for Automatic Surface Inspection Using a Model-Based 3D Descriptor. Sensors, 2017, 17, 2262.	3.8	30
46	Modeling Search Behaviors during the Acquisition of Expertise in a Sequential Decision-Making Task. Frontiers in Computational Neuroscience, 2017, 11, 80.	2.1	2
47	Object recognition in X-ray testing using an efficient search algorithm in multiple views. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 85-92.	0.6	12
48	Grading of Potatoes. , 2016, , 369-382.		4
49	MEG Connectivity and Power Detections with Minimum Norm Estimates Require Different Regularization Parameters. Computational Intelligence and Neuroscience, 2016, 2016, 1-11.	1.7	24
50	Quality Evaluation and Control ofÂPotatoÂChips. , 2016, , 591-613.		4
51	On accuracy estimation and comparison of results in biometric research. , 2016, , .		1
52	Action Recognition in Video Using Sparse Coding and Relative Features. , 2016, , .		18
53	Object Recognition in X-ray Testing Using Adaptive Sparse Representations. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	20
54	Automatic visual inspection: An approach with multi-instance learning. Computers in Industry, 2016, 83, 46-54.	9.9	25

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55	Iris Segmentation Using Geodesic Active Contours and GrabCut. Lecture Notes in Computer Science, 2016, , 48-60.	1.3	6
56	Automated Detection of Threat Objects Using Adapted Implicit Shape Model. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 472-482.	9.3	78
57	Object Recognition in Baggage Inspection Using Adaptive Sparse Representations of X-ray Images. Lecture Notes in Computer Science, 2016, , 709-720.	1.3	26
58	Adaptive Image Segmentation Based on Histogram Transition Zone Analysis. International Journal of Fuzzy Logic and Intelligent Systems, 2016, 16, 299-307.	1.1	1
59	Visual Recognition to Access and Analyze People Density and Flow Patterns in Indoor Environments. , 2015, , .		1
60	GDXray: The Database of X-ray Images for Nondestructive Testing. Journal of Nondestructive Evaluation, 2015, 34, 1.	2.4	259
61	Inspection of Complex Objects Using Multiple-X-Ray Views. IEEE/ASME Transactions on Mechatronics, 2015, 20, 338-347.	5.8	33
62	Automatic facial attribute analysis via adaptive sparse representation of random patches. Pattern Recognition Letters, 2015, 68, 260-269.	4.2	30
63	Computer Vision for X-Ray Testing. , 2015, , .		52
64	Applications in X-ray Testing. , 2015, , 267-325.		2
65	Recognition of Facial Attributes Using Adaptive Sparse Representations of Random Patches. Lecture Notes in Computer Science, 2015, , 778-792.	1.3	6
66	X-ray Testing. , 2015, , 1-33.		3
67	Images for X-ray Testing. , 2015, , 35-51.		0
68	X-ray Image Representation. , 2015, , 149-203.		0
69	Face recognition via adaptive sparse representations of random patches. , 2014, , .		7
70	Computer vision technology for X-ray testing. Insight: Non-Destructive Testing and Condition Monitoring, 2014, 56, 147-155.	0.6	20
71	Oil Content Fraction in Tortilla Chips During Frying and their Prediction by Image Analysis Using Computer Vision. International Journal of Food Properties, 2014, 17, 261-272.	3.0	0
72	Joint Dictionary and Classifier Learning for Categorization of Images Using a Max-margin Framework. Lecture Notes in Computer Science, 2014, , 87-98.	1.3	13

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73	Human Action Recognition from Inter-temporal Dictionaries of Key-Sequences. Lecture Notes in Computer Science, 2014, , 419-430.	1.3	2
74	Automated X-Ray Object Recognition Using an Efficient Search Algorithm in Multiple Views. , 2013, , .		42
75	X-Ray Testing by Computer Vision. , 2013, , .		16
76	Automated Design of a Computer Vision System for Visual Food Quality Evaluation. Food and Bioprocess Technology, 2013, 6, 2093-2108.	4.7	43
77	Detection of regular objects in baggage using multiple X-ray views. Insight: Non-Destructive Testing and Condition Monitoring, 2013, 55, 16-20.	0.6	28
78	Active X-ray testing of complex objects. Insight: Non-Destructive Testing and Condition Monitoring, 2012, 54, 28-35.	0.6	32
79	Automatic landform clasification of uplands based on Haralick's texture. , 2012, , .		0
80	Prediction of Mechanical Properties of Corn and Tortilla Chips by Using Computer Vision. Food and Bioprocess Technology, 2012, 5, 2025-2030.	4.7	14
81	Indoor Mobile Robotics at Grima, PUC. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 66, 151-165.	3.4	0
82	Learning discriminative local binary patterns for face recognition. , 2011, , .		47
83	Automated detection in complex objects using a tracking algorithm in multiple X-ray views. , 2011, , .		32
84	COMPUTER VISION CLASSIFICATION OF POTATO CHIPS BY COLOR. Journal of Food Process Engineering, 2011, 34, 1714-1728.	2.9	33
85	Automatic multiple view inspection using geometrical tracking and feature analysis in aluminum wheels. Machine Vision and Applications, 2011, 22, 157-170.	2.7	29
86	Automated fish bone detection using X-ray imaging. Journal of Food Engineering, 2011, 105, 485-492.	5.2	84
87	Face Recognition with Decision Tree-Based Local Binary Patterns. Lecture Notes in Computer Science, 2011, , 618-629.	1.3	32
88	Improving Tracking Algorithms Using Saliency. Lecture Notes in Computer Science, 2011, , 141-148.	1.3	4
89	Bifocal Matching Using Multiple Geometrical Solutions. Lecture Notes in Computer Science, 2011, , 192-203.	1.3	1
90	Dynamic Signature Recognition Based on Fisher Discriminant. Lecture Notes in Computer Science, 2011, , 433-442.	1.3	2

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91	Flaw detection in aluminium die castings using simultaneous combination of multiple views. Insight: Non-Destructive Testing and Condition Monitoring, 2010, 52, 548-552.	0.6	16
92	Quality classification of corn tortillas using computer vision. Journal of Food Engineering, 2010, 101, 357-364.	5.2	42
93	Visual inspection of glass bottlenecks by multiple-view analysis. International Journal of Computer Integrated Manufacturing, 2010, 23, 925-941.	4.6	14
94	Automated Detection of Fish Bones in Salmon Fillets Using X-ray Testing. , 2010, , .		3
95	A survey of land mine detection technology. International Journal of Remote Sensing, 2009, 30, 2399-2410.	2.9	69
96	Face Recognition with Local Binary Patterns, Spatial Pyramid Histograms and Naive Bayes Nearest Neighbor Classification. , 2009, , .		44
97	Robust automated multiple view inspection. Pattern Analysis and Applications, 2008, 11, 21-32.	4.6	17
98	Quality Evaluation and Control of Potato Chips and French Fries. , 2008, , 545-566.		6
99	Grading of Potatoes. , 2008, , 305-317.		2
100	A ROBUST ALGORITHM FOR NONDESTRUCTIVE TESTING OF WELD SEAMS. , 2007, , 635-658.		3
101	Accuracy estimation of detection of casting defects in X-ray images using some statistical techniques. Insight: Non-Destructive Testing and Condition Monitoring, 2007, 49, 603-609.	0.6	8
102	Automated multiple view inspection of metal castings. , 2007, , .		1
103	Color development and acrylamide content of pre-dried potato chips. Journal of Food Engineering, 2007, 79, 786-793.	5.2	79
104	Color kinetics and acrylamide formation in NaCl soaked potato chips. Journal of Food Engineering, 2007, 79, 989-997.	5.2	62
105	Bimodal Biometric Person Identification System Under Perturbations. , 2007, , 114-127.		4
106	Automatic Multiple Visual Inspection on Non-calibrated Image Sequence with Intermediate Classifier Block. , 2007, , 371-384.		2
107	Robust Tree-Ring Detection. , 2007, , 575-585.		9
108	Accuracy Estimation of Detection of Casting Defects in X-Ray Images Using Some Statistical Techniques. Lecture Notes in Computer Science, 2007, , 639-650.	1.3	4

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109	Color measurement in Lâˆ—aâˆ—bâˆ— units from RGB digital images. Food Research International, 2006, 39, 1084-1091.	6.2	629
110	Development of a computer vision system to measure the color of potato chips. Food Research International, 2006, 39, 1092-1098.	6.2	209
111	High-contrast pixels: a new feature for defect detection in X-ray testing. Insight: Non-Destructive Testing and Condition Monitoring, 2006, 48, 751-753.	0.6	6
112	Automatic Selection and Detection of Visual Landmarks Using Multiple Segmentations. Lecture Notes in Computer Science, 2006, , 601-610.	1.3	3
113	Advances on Automated Multiple View Inspection. Lecture Notes in Computer Science, 2006, , 513-522.	1.3	0
114	Segmentation in Food Images. , 2006, , 340-354.		1
115	Segmentation of colour food images using a robust algorithm. Journal of Food Engineering, 2005, 66, 353-360.	5.2	120
116	Segmentation of circular casting defects using a robust algorithm. Insight: Non-Destructive Testing and Condition Monitoring, 2005, 47, 615-617.	0.6	7
117	Simulation of defects in aluminium castings using CAD models of flaws and real X-ray images. Insight: Non-Destructive Testing and Condition Monitoring, 2005, 47, 618-624.	0.6	21
118	Tracking of Points in a Calibrated and Noisy Image Sequence. Lecture Notes in Computer Science, 2004, , 647-654.	1.3	3
119	Automated Visual Inspection of Glass Bottles Using Adapted Median Filtering. Lecture Notes in Computer Science, 2004, , 818-825.	1.3	10
120	Neural network method for failure detection with skewed class distribution. Insight: Non-Destructive Testing and Condition Monitoring, 2004, 46, 399-402.	0.6	17
121	Classification of Potato Chips Using Pattern Recognition. Journal of Food Science, 2004, 69, E264.	3.1	54
122	Explicit geometric model of a radioscopic imaging system. NDT and E International, 2003, 36, 587-599.	3.7	24
123	Crossing Line Profile: A New Approach to Detecting Defects in Aluminium Die Casting. Lecture Notes in Computer Science, 2003, , 725-732.	1.3	33
124	Automatic detection of welding defects using texture features. Insight: Non-Destructive Testing and Condition Monitoring, 2003, 45, 676-681.	0.6	82
125	Automated flaw detection in aluminum castings based on the tracking of potential defects in a radioscopic image sequence. IEEE Transactions on Automation Science and Engineering, 2002, 18, 890-901.	2.3	115
126	Automatische Gussfehlererkennung: Stand der Technik (Automated Quality Control of Castings: State) Tj ETQq0 0 0 rgBT /Overlock 10	0.7	4

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127	Verfolgung von Gussfehlern in einer digitalen RÃ¶ntgenbildsequenz: Eine neue Methode zur Automatisierung der QualitÃtskontrolle von Gussteilen (Flaw Tracking in a Sequence of Digital X-Ray) Tj ETQq1 1 0.784314 rgBT /Ove 160.	0.7	1
128	Die Epipolargeometrie in der RÃ¶ntgendurchleuchtungsprÃ¼fung: Grundlagen und Anwendung (The) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	10
129	A real time visual sensor for supervision of flotation cells. Minerals Engineering, 1998, 11, 489-499.	4.3	58
130	A new algorithm for flaw simulation in castings by superimposing projections of 3D models onto X-ray images. , 0, , .		4