

# Eduardo Cuesta

## List of Publications by Year in descending order

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57  
papers

780  
citations

687363

13  
h-index

526287

27  
g-index

57  
all docs

57  
docs citations

57  
times ranked

523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Convolution quadrature time discretization of fractional diffusion-wave equations. <i>Mathematics of Computation</i> , 2006, 75, 673-697.	2.1	213
2	Image structure preserving denoising using generalized fractional time integrals. <i>Signal Processing</i> , 2012, 92, 553-563.	3.7	76
3	Analysis of laser scanning and strategies for dimensional and geometrical control. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 46, 621-629.	3.0	67
4	Influence of roughness on surface scanning by means of a laser stripe system. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 43, 1157-1166.	3.0	35
5	New procedure for qualification of structured light 3D scanners using an optical feature-based gauge. <i>Optics and Lasers in Engineering</i> , 2018, 110, 193-206.	3.8	34
6	Methodology for comparison of laser digitizing versus contact systems in dimensional control. <i>Optics and Lasers in Engineering</i> , 2010, 48, 1238-1246.	3.8	29
7	A new concept of feature-based gauge for coordinate measuring arm evaluation. <i>Measurement Science and Technology</i> , 2014, 25, 065004.	2.6	21
8	Application of a Force Sensor to Improve the Reliability of Measurement with Articulated Arm Coordinate Measuring Machines. <i>Sensors</i> , 2013, 13, 10430-10448.	3.8	20
9	Evaluation of AACMM Using the Virtual Circles Method. <i>Procedia Engineering</i> , 2013, 63, 243-251.	1.2	19
10	Automatic determination of bending sequences for sheet metal parts with parallel bends. <i>International Journal of Production Research</i> , 2003, 41, 3273-3299.	7.5	17
11	A new process-based ontology for KBE system implementation: application to inspection process planning. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 57, 325-339.	3.0	14
12	Metrological evaluation of laser scanner integrated with measuring arm using optical feature-based gauge. <i>Optics and Lasers in Engineering</i> , 2019, 121, 120-132.	3.8	14
13	Study of Virtual Features in the Performance of Coordinate Measuring Arms. <i>Procedia Engineering</i> , 2014, 69, 433-441.	1.2	13
14	Sensor Prototype to Evaluate the Contact Force in Measuring with Coordinate Measuring Arms. <i>Sensors</i> , 2015, 15, 13242-13257.	3.8	13
15	Analysis of influence factors on part quality in micro-SLA technology. <i>Procedia Manufacturing</i> , 2017, 13, 856-863.	1.9	13
16	Dynamic Deformations in Coordinate Measuring Arms Using Virtual Simulation. <i>International Journal of Simulation Modelling</i> , 2015, 14, 609-620.	1.3	13
17	Influence of surface material on the quality of laser triangulation digitized point clouds for reverse engineering tasks. , 2009, , .		12
18	AACMM Performance Test: Influence of Human Factor and Geometric Features. <i>Procedia Engineering</i> , 2014, 69, 442-448.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Validation of an information model for inspection with CMM. International Journal of Machine Tools and Manufacture, 2005, 45, 819-829.	13.4	10
20	Knowledge base model for automatic probe orientation and configuration planning with CMMs. Robotics and Computer-Integrated Manufacturing, 2018, 49, 285-300.	9.9	10
21	Laser line scanner aptitude for the measurement of Selective Laser Melting parts. Optics and Lasers in Engineering, 2021, 138, 106406.	3.8	10
22	Times and costs analysis for sheet-metal cutting processes in an integrated CAD/CAM system. International Journal of Production Research, 1998, 36, 1733-1747.	7.5	9
23	Feasibility Evaluation of Photogrammetry versus Coordinate Measuring Arms for the Assembly of Welded Structures. Advanced Materials Research, 0, 498, 103-108.	0.3	9
24	Evaluation of influence parameters on measurement reliability of coordinated measuring arms. , 2012, , .		8
25	A Statistical Approach To Prediction Of The CMM Drift Behaviour Using A Calibrated Mechanical Artefact. Metrology and Measurement Systems, 2015, 22, 417-428.	1.4	8
26	Accessibility analysis for star probes in automatic inspection of rotational parts. International Journal of Production Research, 2002, 40, 1493-1523.	7.5	7
27	Testing coordinate measuring arms with a geometric feature-based gauge:in situ field trials. Measurement Science and Technology, 2016, 27, 055003.	2.6	7
28	Analysis of Modern Optical Inspection Systems for Parts Manufactured by Selective Laser Melting. Sensors, 2020, 20, 3202.	3.8	7
29	On the sub"diffusion fractional initial value problem with time variable order. Advances in Nonlinear Analysis, 2021, 10, 1301-1315.	2.6	7
30	KBE rules oriented to resources management in coordinates inspection by contact. Journal of Manufacturing Systems, 2015, 37, 149-163.	13.9	5
31	Metrological evaluation of Structured Light 3D scanning system with an optical feature-based gauge. Procedia Manufacturing, 2017, 13, 526-533.	1.9	5
32	Development of a Behaviour Curve for Quality Evaluation with Optoelectronic Profilometers. Key Engineering Materials, 2014, 615, 51-56.	0.4	4
33	Automatic selection of clamping surfaces in the turning process for rotational parts. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2000, 214, 693-708.	2.4	3
34	Conceptual principles and ontology for a KBE implementation in inspection planning. International Journal of Mechatronics and Manufacturing Systems, 2010, 3, 451.	0.1	3
35	Development of a Virtual Machine for the Sheet Metal Bending Process Simulation for Educational Purposes. Materials Science Forum, 0, 692, 16-23.	0.3	3
36	Methodology for identifying and representing knowledge in the scope of CMM inspection resource selection. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
37	Implementation of decision rules for CMM sampling in a KBE system. , 2010, , 335-338.		3
38	Real-Time Contact Force Measurement System for Portable Coordinate Measuring Arms. Annals of DAAAM & Proceedings, 2012, , 0267-0272.	0.1	3
39	Study of the technical feasibility of photogrammetry and coordinated measuring arms for the inspection of welded structures. , 2012, , .		2
40	Conformity Analysis in the Measurement of Machined Metal Surfaces with Optoelectronic Profilometer. Procedia Engineering, 2013, 63, 463-471.	1.2	2
41	The Use of Virtual Circles Gauge for a Quick Verification of Portable Measuring Arms. Key Engineering Materials, 2014, 615, 70-75.	0.4	2
42	Uncertainties on CMMs by Applying a Model of Corrections Based on a Global Metric, Monte Carlo and Neural Network Methods. Procedia Engineering, 2015, 132, 796-803.	1.2	2
43	Hölder regularity for abstract semi-linear fractional differential equations in Banach spaces. Computers and Mathematics With Applications, 2021, 85, 57-68.	2.7	2
44	Testing the Sandblasting Process in the Manufacturing of Reference Spheres for Non-Contact Metrology Applications. Materials, 2021, 14, 5187.	2.9	2
45	Influencia del Acabado Superficial en el Digitalizado con Sensores de Triangulación por Láser. Informacion Tecnologica (discontinued), 2008, 19, .	0.3	2
46	Comparison of Chemical and Mechanical Surface Treatments on Metallic Precision Spheres for Using as Optical Reference Artifacts. Materials, 2022, 15, 3741.	2.9	2
47	An automatic CAPP system for rotational parts. , 0, , .		1
48	Development of a Force Sensor Prototype Integrated on a Coordinate Measuring Arm. Procedia Engineering, 2015, 132, 998-1005.	1.2	1
49	Categorization of Inspection Elements in Coordinates Measurement for a KBE Implementation. Procedia Engineering, 2015, 132, 1037-1044.	1.2	1
50	Generalized fractional integrals in advanced remote sensing. , 2016, , .		1
51	Feasibility analysis of using machinable glass ceramics to manufacture non-contact measurement approach metrological artefacts. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012063.	0.6	1
52	Selection of Ambient Light for Laser Digitizing of Quasi-Lambertian Surfaces. Lecture Notes in Electrical Engineering, 2009, , 447-457.	0.4	1
53	Design of special tools by CAD/CAM systems. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 1998, 212, 357-371.	2.4	0
54	A Wiki Collaborative Application for Teaching in Manufacturing Engineering. Materials Science Forum, 2013, 759, 11-17.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Validation of the sandblasting process in the manufacturing of precision spheres for non-contact metrology. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012058.	0.6	0
56	Evaluation of the influence of post-processing on the optical inspection accuracy of additively manufactured parts. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012062.	0.6	0
57	Automatizaci3n e Integraci3n de la Inspecci3n Dimensional con M3quinas de Medir por Coordenadas. Informacion Tecnologica (discontinued), 2004, 15, .	0.3	0