Oscar Salgado

List of Publications by Year
in descending order

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29 papers	440 citations	759233 12 h-index	713466 21 g-index
31 all docs	31 docs citations	31 times ranked	417 citing authors

#	Article	IF	Citations
1	A Digital Twin for Operational Evaluation of Vertical Transportation Systems. IEEE Access, 2020, 8, 114389-114400.	4.2	28
2	Application of state estimation to the monitoring of multiple components in non-linear electro-mechanical systems. Applied Acoustics, 2020, 166, 107371.	3.3	2
3	Model-Based State Estimation for the Diagnosis of Multiple Faults in Non-linear Electro-Mechanical Systems. Applied Condition Monitoring, 2019, , 77-89.	0.4	1
4	Model-based condition monitoring of guiding rails in electro-mechanical systems. Mechanical Systems and Signal Processing, 2019, 120, 630-641.	8.0	18
5	Wind Turbine Condition Monitoring Strategy through Multiway PCA and Multivariate Inference. Energies, 2018, 11, 749.	3.1	43
6	Architecture for hybrid modelling and its application to diagnosis and prognosis with missing data. Measurement: Journal of the International Measurement Confederation, 2017, 108, 152-162.	5.0	38
7	Design methodology of a reduced-scale test bench for fault detection and diagnosis. Mechatronics, 2017, 47, 14-23.	3.3	13
8	Validation of a physics-based model of a rotating machine for synthetic data generation in hybrid diagnosis. Structural Health Monitoring, 2017, 16, 458-470.	7.5	10
9	Model-based virtual sensors by means of Modelica and FMI. , 2017, , .		0
10	Model-based approach for elevator performance estimation. Mechanical Systems and Signal Processing, 2016, 68-69, 125-137.	8.0	29
11	Model-Based Estimation of Elevator Rail Friction Forces. Applied Condition Monitoring, 2016, , 363-374.	0.4	4
12	Multi-body modelling of rolling element bearings and performance evaluation with localised damage. Eksploatacja I Niezawodnosc, 2016, 18, 638-648.	2.0	10
13	Estimation of the Reliability of Rolling Element Bearings Using a Synthetic Failure Rate. Lecture Notes in Mechanical Engineering, 2016, , 99-112.	0.4	2
14	Synthetic data generation in hybrid modelling of rolling element bearings. Insight: Non-Destructive Testing and Condition Monitoring, 2015, 57, 395-400.	0.6	11
15	Measurement and Simulation of the Vibroacoustic Performance of an Electric Motor. Mechanisms and Machine Science, 2015, , 339-348.	0.5	2
16	MODELIZACIÃ“N HÃBRIDA PARA EL DIAGNÃ“STICO Y PRONÃ“STICO DE FALLOS EN EL SECTOR DEL TRANSPORTE. DATOS ADQUIRIDOS Y DATOS SINTÃ‰TICOS.. Dyna (Spain), 2015, 90, 139-145.	0.2	9
17	Analytical Determination of the Instantaneous Motion Capabilities of Robotic Manipulators. Mechanisms and Machine Science, 2013, , 95-103.	0.5	0
18	Analytical determination of the principal screws for general screw systems. Mechanism and Machine Theory, 2013, 60, 28-46.	4.5	5

#	Article	IF	Citations
19	Designing parallel manipulators: from specifications to a real prototype. Industrial Robot, 2012, 39, 500-512.	2.1	12
20	Operational Modal Analysis of Operating Wind Turbines: Application to Measured Data. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 65-81.	0.5	16
21	Computational kinematics for robotic manipulators: instantaneous motion pattern. Engineering Computations, 2010, 27, 495-518.	1.4	2
22	Computational Kinematics for Robotic Manipulators: Instantaneous Motion Pattern. Engineering Computations, 2010, 27, .	1.4	0
23	Multiobjective Optimum Design of a Symmetric Parallel SchÃ¶nflies-Motion Generator. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	50
24	Computational kinematics for robotic manipulators: Jacobian problems. Engineering Computations, 2008, 25, 4-27.	1.4	9
25	Synthesis and Design of a Novel 3T1R Fully-Parallel Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	2.9	58
26	A Parallelogram-Based Parallel Manipulator for SchÃ¶nflies Motion. Journal of Mechanical Design, Transactions of the ASME, 2007, 129, 1243-1250.	2.9	24
27	Modal Characterization of the Instantaneous Mobility of Manipulators. , 2007, , .		0
28	A Parallelogram-Based Parallel Manipulator For SchoÂ¨nflies Motion. , 2006, , 833.		3
29	Point-based Jacobian formulation for computational kinematics of manipulators. Mechanism and Machine Theory, 2006, 41, 1407-1423.	4.5	40