

# Patrick Guillaume

## List of Publications by Year in descending order

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279  
papers

6,911  
citations

76326

40  
h-index

85541

71  
g-index

290  
all docs

290  
docs citations

290  
times ranked

3620  
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of non-stationary harmonics for operational modal analysis in time and frequency domain. <i>Mechanical Systems and Signal Processing</i> , 2022, 165, 108329.	8.0	10
2	Effect of Coaxial Powder Nozzle Jet Process Parameters on Single-Track Geometry for Laser Beam Directed Energy Deposition Process. , 2022, , 51-74.		3
3	Wave propagation visualisation through ducts using Schlieren technique for crack localisation with eSHM-system. <i>Applied Optics</i> , 2021, 60, 10221-10231.	1.8	0
4	Process parameter study for enhancement of directed energy deposition powder efficiency based on single-track geometry evaluation. <i>Journal of Laser Applications</i> , 2021, 33, .	1.7	4
5	Structural health monitoring through surface acoustic wave inspection deployed on capillaries embedded in additively manufactured components. <i>MATEC Web of Conferences</i> , 2021, 349, 03010.	0.2	0
6	Production Assessment of Hybrid Directed Energy Deposition Manufactured Sample with Integrated Effective Structural Health Monitoring channel (eSHM). <i>Procedia Structural Integrity</i> , 2021, 34, 32-38.	0.8	2
7	Combining Test and Simulation to Tackle the Challenges Derived from Boundary Conditions Mismatches in Environmental Testing. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020, , 259-269.	0.5	7
8	Multi-Input Multi-Output Swept Sine Control: A Steepest Descent Solution for a Challenging Problem. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2020, , 83-94.	0.5	1
9	Analyses of drives power reduction techniques for multi-axis random vibration control tests. <i>Mechanical Systems and Signal Processing</i> , 2020, 135, 106395.	8.0	13
10	Offline powder-gas nozzle jet characterization for coaxial laser-based Directed Energy Deposition. <i>Procedia CIRP</i> , 2020, 94, 281-287.	1.9	10
11	Letâ€™s Make Ball Balancing Great Again: Why You Should Use Temporary Speed Reduction. <i>Machines</i> , 2020, 8, 74.	2.2	0
12	A proof-of-concept analysis relating dimensions of a melt pool to its vibrational behavior to control a laser-based additive manufacturing process. <i>Procedia CIRP</i> , 2020, 94, 404-408.	1.9	1
13	Spatial distributed spectroscopic monitoring of melt pool and vapor plume during the laser metal deposition process. <i>Procedia CIRP</i> , 2020, 94, 445-450.	1.9	2
14	MiCLAD as a platform for real-time monitoring and machine learning in laser metal deposition. <i>Procedia CIRP</i> , 2020, 94, 456-461.	1.9	22
15	Comparison of visual and hyperspectral monitoring of the melt pool during Laser Metal Deposition. <i>Procedia CIRP</i> , 2020, 94, 462-468.	1.9	9
16	An analytical amplitude model for negative pressure waves in gaseous media. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106800.	8.0	11
17	Driving a Motion Platform with a Vibration Control Software for Multi-Axis Environmental Testing: Challenges and Solutions. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 215-231.	0.5	1
18	Localization of dynamic forces on structures with an interior point method using group sparsity. <i>Mechanical Systems and Signal Processing</i> , 2019, 115, 593-606.	8.0	17

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19	Fatigue failure monitoring of 316L stainless steel coupons using optical fibre based distributed strain sensing. <i>Smart Materials and Structures</i> , 2019, 28, 105054.	3.5	4
20	Analytical Modeling of Embedded Load Sensing Using Liquid-Filled Capillaries Integrated by Metal Additive Manufacturing. <i>IEEE Sensors Journal</i> , 2019, 19, 9447-9455.	4.7	3
21	On the Influence of Capillary-Based Structural Health Monitoring on Fatigue Crack Initiation and Propagation in Straight Lugs. <i>Materials</i> , 2019, 12, 2965.	2.9	3
22	Identification of Noise, Vibration and Harshness Behavior of Wind Turbine Drivetrain under Different Operating Conditions. <i>Energies</i> , 2019, 12, 3401.	3.1	5
23	Directional and oscillating residual stress on the mesoscale in additively manufactured Ti-6Al-4V. <i>Acta Materialia</i> , 2019, 168, 299-308.	7.9	62
24	Hyperspectral and thermal temperature estimation during laser cladding. <i>Journal of Laser Applications</i> , 2019, 31, .	1.7	12
25	Dynamic Performance of a Squeeze Film Damper with a Cylindrical Roller Bearing under a Large Static Radial Loading Range. <i>Machines</i> , 2019, 7, 14.	2.2	6
26	On the Nature of Pressure Wave Propagation through Ducts for Structural Health Monitoring Application. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 837.	2.5	5
27	The MLMM modal parameter estimation method: A new feature to maximize modal model robustness. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 465-485.	8.0	9
28	Dynamic Performance of an Oil Starved Squeeze Film Damper Combined With a Cylindrical Roller Bearing. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, 0710091-7100912.	1.1	7
29	Long-Term Automatic Tracking of the Modal Parameters of an Offshore Wind Turbine Drivetrain System in Standstill Condition. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 91-99.	0.5	1
30	Experimental and Analytical Approaches in a Virtual Shaker Testing Simulation Environment for Numerical Prediction of a Spacecraft Vibration Test. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 71-81.	0.5	1
31	A minimum drives automatic target definition procedure for multi-axis random control testing. <i>Mechanical Systems and Signal Processing</i> , 2018, 107, 452-468.	8.0	19
32	Vibration-based bearing fault detection for operations and maintenance cost reduction in wind energy. <i>Renewable Energy</i> , 2018, 116, 74-87.	8.9	80
33	Efficient Use of the Output Information to Improve Modal Parameter Estimation. <i>Proceedings (mdpi)</i> , 2018, 2, 519.	0.2	0
34	Fatigue Performance of Powder Bed Fused Ti-6Al-4V Component with Integrated Chemically Etched Capillary for Structural Health Monitoring Application. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	6
35	Numerical Simulation of Fatigue Crack Growth in Straight Lugs Equipped with Efficient Structural Health Monitoring. <i>Procedia Structural Integrity</i> , 2018, 13, 1708-1713.	0.8	3
36	Experimental Study of the Shaft Penetration Factor on the Torsional Dynamic Response of a Drive Train. <i>Machines</i> , 2018, 6, 31.	2.2	5

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37	Long term operational modal analysis for rotating machines. Journal of Physics: Conference Series, 2018, 1037, 052035.	0.4	4
38	A comparison of cepstral editing methods as signal pre-processing techniques for vibration-based bearing fault detection. Mechanical Systems and Signal Processing, 2017, 91, 354-381.	8.0	80
39	Vibration-based angular speed estimation for multi-stage wind turbine gearboxes. Journal of Physics: Conference Series, 2017, 842, 012053.	0.4	4
40	Optimal Modal Parameter Estimation for Highly Challenging Industrial Cases. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 173-187.	0.5	1
41	Improving Modal Parameter Estimation by Complementary Output-Output Relations. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 37-45.	0.5	0
42	Analyses of Target Definition Processes for MIMO Random Vibration Control Tests. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 135-148.	0.5	7
43	Acoustic emission monitoring of crack propagation in additively manufactured and conventional titanium components. Mechanics Research Communications, 2017, 84, 8-13.	1.8	47
44	Evaluation of Procedural Simulation as a Training and Assessment Tool in General Surgery- Simulating a Laparoscopic Appendectomy. Journal of Surgical Education, 2017, 74, 243-250.	2.5	19
45	Model-Based Temperature Feedback Control of Laser Cladding Using High-Resolution Hyperspectral Imaging. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2714-2722.	5.8	15
46	Fatigue Performance of Ti-6Al-4V Additively Manufactured Specimens with Integrated Capillaries of an Embedded Structural Health Monitoring System. Materials, 2017, 10, 993.	2.9	16
47	High Resolution Temperature Measurement of Liquid Stainless Steel Using Hyperspectral Imaging. Sensors, 2017, 17, 91.	3.8	32
48	Proof of Concept of Integrated Load Measurement in 3D Printed Structures. Sensors, 2017, 17, 328.	3.8	6
49	Automatic Tracking of the Modal Parameters of an Offshore Wind Turbine Drivetrain System. Energies, 2017, 10, 574.	3.1	8
50	Modal Parameters Estimation of an Offshore Wind Turbine Using Measured Acceleration Signals from the Drive Train. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 41-48.	0.5	4
51	Evaluation of the diffuse reflectivity behaviour of the melt pool during the laser metal deposition process. , 2016, , .		1
52	Proof of Concept of Crack Localization Using Negative Pressure Waves in Closed Tubes for Later Application in Effective SHM System for Additive Manufactured Components. Applied Sciences (Switzerland), 2016, 6, 33.	2.5	2
53	Fatigue of Ti6Al4V Structural Health Monitoring Systems Produced by Selective Laser Melting. Materials, 2016, 9, 106.	2.9	26
54	Hardware-in-the-loop control of additive manufacturing processes using temperature feedback. Journal of Laser Applications, 2016, 28, .	1.7	31

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55	Spectroscopic monitoring and melt pool temperature estimation during the laser metal deposition process. <i>Journal of Laser Applications</i> , 2016, 28, .	1.7	8
56	Reconstruction of impacts on a composite plate using fiber Bragg gratings (FBG) and inverse methods. <i>Composite Structures</i> , 2016, 149, 1-10.	5.8	36
57	High Resolution Temperature Estimation During Laser Cladding of Stainless Steel. <i>Physics Procedia</i> , 2016, 83, 1253-1260.	1.2	10
58	Experimental investigation of bearing slip in a wind turbine gearbox during a transient grid loss event. <i>Wind Energy</i> , 2016, 19, 2255-2269.	4.2	27
59	Verification of joint input-state estimation for force identification by means of in situ measurements on a footbridge. <i>Mechanical Systems and Signal Processing</i> , 2016, 75, 245-260.	8.0	60
60	Constrained maximum likelihood modal parameter identification applied to structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2016, 72-73, 567-589.	8.0	32
61	Identification of dynamic forces using group-sparsity in frequency domain. <i>Mechanical Systems and Signal Processing</i> , 2016, 70-71, 756-768.	8.0	60
62	A modal decomposition and expansion approach for prediction of dynamic responses on a monopile offshore wind turbine using a limited number of vibration sensors. <i>Mechanical Systems and Signal Processing</i> , 2016, 68-69, 84-104.	8.0	78
63	Experimental dynamic identification of modeshape driving wind turbine grid loss event on nacelle testrig. <i>Renewable Energy</i> , 2016, 85, 259-272.	8.9	11
64	A Multiphysical Modelling Approach for Virtual Shaker Testing Correlated with Experimental Test Results. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 87-99.	0.5	4
65	Modeling of laser beam and powder flow interaction in laser cladding using ray-tracing. <i>Journal of Laser Applications</i> , 2015, 27, .	1.7	47
66	Evaluation of SHM System Produced by Additive Manufacturing via Acoustic Emission and Other NDT Methods. <i>Sensors</i> , 2015, 15, 26709-26725.	3.8	31
67	Underwater Acoustic Wavefront Visualization by Scanning Laser Doppler Vibrometer for the Characterization of Focused Ultrasonic Transducers. <i>Sensors</i> , 2015, 15, 19925-19936.	3.8	9
68	Modal Identification Using OMA Techniques: Nonlinearity Effect. <i>Shock and Vibration</i> , 2015, 2015, 1-12.	0.6	1
69	Feasibility study on integrated structural health monitoring system produced by metal three-dimensional printing. <i>Structural Health Monitoring</i> , 2015, 14, 622-632.	7.5	20
70	Continuous strain prediction for fatigue assessment of an offshore wind turbine using Kalman filtering techniques. , 2015, , .		6
71	Negative Pressure Waves Analysis for Crack Localization and Crack Size Estimation for 3D Printed SHM System. , 2015, , .		0
72	Decoupling of mechanical systems based on in-situ frequency response functions: The link-preserving, decoupling method. <i>Mechanical Systems and Signal Processing</i> , 2015, 58-59, 340-354.	8.0	26

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73	The dynamics of an offshore wind turbine in parked conditions: a comparison between simulations and measurements. <i>Wind Energy</i> , 2015, 18, 1685-1702.	4.2	42
74	A Fast Maximum Likelihood-Based Estimation of a Modal Model. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015, , 133-156.	0.5	10
75	Magnetostrictive deformation of a transformer: A comparison between calculation and measurement. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 44, 295-299.	0.6	13
76	The isotherm migration method in spherical coordinates with a moving heat source. <i>International Journal of Heat and Mass Transfer</i> , 2014, 75, 726-735.	4.8	36
77	Operational modal parameter estimation of MIMO systems using transmissibility functions. <i>Automatica</i> , 2014, 50, 559-564.	5.0	65
78	Structural health monitoring of offshore wind turbines using automated operational modal analysis. <i>Structural Health Monitoring</i> , 2014, 13, 644-659.	7.5	111
79	Design of a Model-based Controller with Temperature Feedback for Laser Cladding. <i>Physics Procedia</i> , 2014, 56, 211-219.	1.2	19
80	Fast maximum-likelihood identification of modal parameters with uncertainty intervals: A modal model formulation with enhanced residual term. <i>Mechanical Systems and Signal Processing</i> , 2014, 48, 49-66.	8.0	20
81	Dealing with periodical loads and harmonics in operational modal analysis using time-varying transmissibility functions. <i>Mechanical Systems and Signal Processing</i> , 2014, 49, 154-164.	8.0	30
82	Evaluating Different Automated Operational Modal Analysis Techniques for the Continuous Monitoring of Offshore Wind Turbines. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2014, , 313-329.	0.5	4
83	Continuous strain prediction for fatigue assessment of an offshore wind turbine using a joint input-state estimation algorithm and a modal interpolation algorithm. <i>Life-cycle of Civil Engineering Systems</i> , 2014, , 146-152.	0.1	0
84	Relative scaling of mode shapes using transmissibility functions. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 269-277.	8.0	7
85	Combining multiple single-reference transmissibility functions in a unique matrix formulation for operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 278-287.	8.0	34
86	Modal parameter estimation by combining stochastic and deterministic frequency-domain approaches. <i>Mechanical Systems and Signal Processing</i> , 2013, 35, 52-68.	8.0	33
87	System identification of the kinematics of an oscillating cylinder using wake velocities. <i>Journal of Fluids and Structures</i> , 2013, 41, 57-63.	3.4	3
88	Experimental and computational damping estimation of an offshore wind turbine on a monopile foundation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013, 120, 96-106.	3.9	127
89	Fast maximum-likelihood identification of modal parameters with uncertainty intervals: A modal model-based formulation. <i>Mechanical Systems and Signal Processing</i> , 2013, 37, 422-439.	8.0	35
90	Damping estimation of an offshore wind turbine on a monopile foundation. <i>IET Renewable Power Generation</i> , 2013, 7, 401-412.	3.1	49

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91	Material properties identification using ultrasonic waves and laser Doppler vibrometer measurements: a multi-input multi-output approach. Measurement Science and Technology, 2013, 24, 105206.	2.6	5
92	Long-Term Dynamic Monitoring of an Offshore Wind Turbine. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 253-267.	0.5	6
93	Operational Modal Analysis Based on Multivariable Transmissibility Functions: Revisited. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 317-326.	0.5	2
94	Determining the Power Flow in a Rectangular Plate Using a Generalized Two-Step Regressive Discrete Fourier Series. Journal of Vibration and Acoustics, Transactions of the ASME, 2012, 134, .	1.6	1
95	Consistent multi-input modal parameter estimators in the frequency domain. Mechanical Systems and Signal Processing, 2012, 31, 130-142.	8.0	5
96	Acoustic source identification using a Generalized Weighted Inverse Beamforming technique. Mechanical Systems and Signal Processing, 2012, 32, 349-358.	8.0	11
97	Transmissibility-Based Operational Modal Analysis for Flight Flutter Testing Using Exogenous Inputs. Shock and Vibration, 2012, 19, 1071-1083.	0.6	9
98	Transmissibility-Based Operational Modal Analysis: Enhanced Stabilisation Diagrams. Shock and Vibration, 2012, 19, 1085-1097.	0.6	9
99	Implementation of the Scanning Laser Doppler Vibrometer Combined with a Light-Weight Pneumatic Artificial Muscle Actuator for the Modal Analysis of a Civil Structure. Shock and Vibration, 2012, 19, 421-431.	0.6	1
100	Turning point based fatigue testing: Combining multisines with turning point replication. Mechanical Systems and Signal Processing, 2012, 30, 23-31.	8.0	4
101	Frequency-domain modal analysis in the OMAX framework. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 465-476.	0.5	0
102	Optical measurement of the dynamic strain field of a fan blade using a 3D scanning vibrometer. Optics and Lasers in Engineering, 2011, 49, 988-997.	3.8	35
103	Reliability-based design optimization of computation-intensive models making use of response surface models. Quality and Reliability Engineering International, 2011, 27, 555-568.	2.3	20
104	Direct calculation of modal parameters from matrix orthogonal polynomials. Mechanical Systems and Signal Processing, 2011, 25, 2375-2387.	8.0	4
105	A method for crack sizing using Laser Doppler Vibrometer measurements of Surface Acoustic Waves. Ultrasonics, 2010, 50, 76-80.	3.9	26
106	An operational modal analysis approach based on parametrically identified multivariable transmissibilities. Mechanical Systems and Signal Processing, 2010, 24, 1250-1259.	8.0	55
107	Continuous-time operational modal analysis in the presence of harmonic disturbances—the multivariate case. Mechanical Systems and Signal Processing, 2010, 24, 90-105.	8.0	13
108	From operating deflection shapes towards mode shapes using transmissibility measurements. Mechanical Systems and Signal Processing, 2010, 24, 665-677.	8.0	44

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109	Microphone positioning optimization for conditioning inverse tonal fan noise. Mechanical Systems and Signal Processing, 2010, 24, 1682-1692.	8.0	5
110	Operational transfer path analysis. Mechanical Systems and Signal Processing, 2010, 24, 416-431.	8.0	63
111	Identification of material properties from full field measurements of a sound field interacting with a solid. EPJ Web of Conferences, 2010, 6, 37004.	0.3	0
112	Structural Health Monitoring in Changing Operational Conditions Using Transmissibility Measurements. Shock and Vibration, 2010, 17, 651-675.	0.6	19
113	Ultrasonic characterization of materials by means of under water Laser Doppler Vibrometer measurements of continuous waves. , 2010, , .		0
114	Fluid flow measurements using a scanning laser Doppler vibrometer. , 2010, , .		0
115	Aeroacoustic Source Identification Using a Weighted Pseudo Inverse Method. , 2010, , .		1
116	Simultaneous determination of acoustic velocity and density of a cortical bone slab: ultrasonic model-based approach - correspondence. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 496-500.	3.0	9
117	A Study on the Bandwidth Characteristics of Pleated Pneumatic Artificial Muscles. Applied Bionics and Biomechanics, 2009, 6, 3-9.	1.1	3
118	International comparison of orthotic brace prices. European Journal of Health Economics, 2009, 10, 149-155.	2.8	2
119	A digital image correlation method for fatigue test experiments. Optics and Lasers in Engineering, 2009, 47, 371-378.	3.8	79
120	Development of an adaptive response surface method for optimization of computation-intensive models. Computers and Industrial Engineering, 2009, 57, 847-855.	6.3	30
121	Development of a regressive finite element model optimization technique making use of transmissibilities. Structural and Multidisciplinary Optimization, 2009, 39, 47-62.	3.5	4
122	Robust optimization of an airplane component taking into account the uncertainty of the design parameters. Quality and Reliability Engineering International, 2009, 25, 255-282.	2.3	13
123	Fast variance calculation of polyreference least-squares frequency-domain estimates. Mechanical Systems and Signal Processing, 2009, 23, 1423-1433.	8.0	16
124	Processing optical measurements using a regressive Fourier series: A review. Optics and Lasers in Engineering, 2009, 47, 461-472.	3.8	4
125	Fast calculation of confidence intervals on parameter estimates of least-squares frequency-domain estimators. Mechanical Systems and Signal Processing, 2009, 23, 261-273.	8.0	34
126	Operational modal analysis in the presence of harmonic excitations by the use of transmissibility measurements. Mechanical Systems and Signal Processing, 2009, 23, 621-635.	8.0	92



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127	Accurate estimation of normal incidence absorption coefficients with confidence intervals using a scanning laser Doppler vibrometer. Optics and Lasers in Engineering, 2009, 47, 644-650.	3.8	10
128	Improved active non-destructive inspection using periodic binary heating sequences. , 2009, , .		0
129	A study on the bandwidth characteristics of pleated pneumatic artificial muscles. Applied Bionics and Biomechanics, 2009, 6, 3-9.	1.1	5
130	On-line damage detection on a wing panel using transmission of multisine ultrasonic waves. NDT and E International, 2008, 41, 312-317.	3.7	22
131	Reducing spatial data using an optimized regressive discrete Fourier series. Journal of Sound and Vibration, 2008, 309, 858-867.	3.9	5
132	Identification of modal parameters from transmissibility measurements. Journal of Sound and Vibration, 2008, 314, 343-356.	3.9	151
133	Bias-specified robust design optimization: A generalized mean squared error approach. Computers and Industrial Engineering, 2008, 54, 259-268.	6.3	18
134	Tomographic reconstruction using a generalized regressive discrete Fourier series. Mechanical Systems and Signal Processing, 2008, 22, 1237-1247.	8.0	3
135	Continuous-time operational modal analysis in the presence of harmonic disturbances. Mechanical Systems and Signal Processing, 2008, 22, 1017-1035.	8.0	43
136	How to Achieve a Rapid Deployment of Mobile Substations and to Guarantee Its Integrity During Transport. IEEE Transactions on Power Delivery, 2008, 23, 196-202.	4.3	3
137	Reforming the Belgian market for orthotic braces: What can we learn from the international experience?. Health Policy, 2008, 86, 195-203.	3.0	4
138	PHP27 ESTIMATION AND COMPARISON OF ORTHOTIC BRACE COSTS WITH REIMBURSEMENT TARIFFS AND RETAIL PRICES IN BELGIUM. Value in Health, 2008, 11, A36-A37.	0.3	0
139	Continuous-Time Operational Modal Analysis in the Presence of Harmonic Disturbances. , 2008, , .		0
140	Operational Acoustic Modal Analysis: Sensitivity-Based Mode Shape Normalisation. Acta Acustica United With Acustica, 2008, 94, 580-587.	0.8	2
141	Identification of fully parameterized modal models using scanning laser Doppler vibrometer measurements. Proceedings of SPIE, 2008, , .	0.8	0
142	Spatial data reduction for laser vibrometry using advanced regressive Fourier series. Proceedings of SPIE, 2008, , .	0.8	0
143	Underwater visualization of multi-input interleaved multisine wavefronts for ultrasonic testing of bone specimens using laser Doppler vibrometry. Proceedings of SPIE, 2008, , .	0.8	4
144	8D-5 Tracking of Cracks in Fatigue Experiments Using Nonlinear Propagation of Multi-Sine Surface Acoustic Waves. , 2007, , .		0

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145	Stable Approximations of Unstable Models. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	2
146	Operational Modal Analysis for Estimating the Dynamic Properties of a Stadium Structure during a Football Game. Shock and Vibration, 2007, 14, 283-303.	0.6	106
147	Improved Fourier analysis using parametric frequency-domain transfer-function estimators. Mechanical Systems and Signal Processing, 2007, 21, 1704-1716.	8.0	6
148	Uncertainty calculation in (operational) modal analysis. Mechanical Systems and Signal Processing, 2007, 21, 2359-2373.	8.0	137
149	The use of transmissibility measurements in output-only modal analysis. Mechanical Systems and Signal Processing, 2007, 21, 2689-2696.	8.0	127
150	Boxâ€“Jenkins identification revisitedâ€”Part III. Automatica, 2007, 43, 868-875.	5.0	30
151	Structural dynamics of a mobile substation during transport. Engineering Structures, 2007, 29, 3377-3389.	5.3	3
152	Experimental modal testing using pressurized air excitation. Journal of Sound and Vibration, 2007, 299, 83-98.	3.9	22
153	On the use of transmissibility measurements for finite element model updating. Journal of Sound and Vibration, 2007, 303, 707-722.	3.9	43
154	Reducing measurement time for a laser Doppler vibrometer using regressive techniques. Optics and Lasers in Engineering, 2007, 45, 49-56.	3.8	6
155	Flow characterization using a laser Doppler vibrometer. Optics and Lasers in Engineering, 2007, 45, 19-26.	3.8	9
156	Continuous-Time Noise Modelling from Sampled Data. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
157	Trajectory Planning for the Walking Biped â€œLucyâ€ International Journal of Robotics Research, 2006, 25, 867-887.	8.5	23
158	IMPROVED POLY-REFERENCE FREQUENCY-DOMAIN MODAL ESTIMATORS FOR FLUTTER ANALYSIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 630-635.	0.4	2
159	Reducing measurement time for a laser Doppler vibrometer using a spatial regressive technique. , 2006, , .		0
160	MULTIVARIABLE FREQUENCY-DOMAIN SYSTEM IDENTIFICATION ALGORITHMS FOR MODAL ANALYSIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 94-109.	0.4	2
161	MULTIVARIABLE FREQUENCY DOMAIN BOX-JENKINS IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 208-213.	0.4	1
162	Laser vibrometer measurements of SAWs for nondestructive testing. , 2006, , .		3

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163	Reduction of large frequency response function data sets using a robust singular value decomposition. Computers and Structures, 2006, 84, 808-822.	4.4	9
164	Frequency-domain subspace identification using FRF data from arbitrary signals. Journal of Sound and Vibration, 2006, 290, 555-571.	3.9	17
165	Measurements of the dynamic railpad properties. Journal of Sound and Vibration, 2006, 293, 557-565.	3.9	68
166	Assessment of nonlinear distortions in modal testing and analysis of vibrating automotive structures. Journal of Sound and Vibration, 2006, 293, 299-319.	3.9	12
167	Finite element model updating taking into account the uncertainty on the modal parameters estimates. Journal of Sound and Vibration, 2006, 296, 919-934.	3.9	60
168	Data reduction using a generalized regressive discrete Fourier series. Journal of Sound and Vibration, 2006, 298, 1-11.	3.9	9
169	Optimized Excitation Signals for MIMO Frequency Response Function Measurements. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2072-2079.	4.7	39
170	Continuous-Time Noise Modeling From Sampled Data. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2253-2258.	4.7	28
171	Characterization of acoustic materials using the scanning laser Doppler vibrometer. , 2006, 6345, 389.		2
172	“Organised irresponsibility”: Contradictions in the Australian government's strategy for GM regulation. Environmental Politics, 2006, 15, 399-416.	5.4	11
173	Absorption measurement of acoustic materials using a scanning laser Doppler vibrometer. Journal of the Acoustical Society of America, 2005, 117, 1168-1172.	1.1	15
174	Multivariable frequency“response curve fitting with application to modal parameter estimation. Automatica, 2005, 41, 1773-1782.	5.0	17
175	A comparison of frequency-domain transfer function model estimator formulations for structural dynamics modelling. Journal of Sound and Vibration, 2005, 279, 775-798.	3.9	9
176	A robust singular value decomposition for damage detection under changing operating conditions and structural uncertainties. Journal of Sound and Vibration, 2005, 284, 1033-1050.	3.9	79
177	On-line identification of operational loads using exogenous inputs. Journal of Sound and Vibration, 2005, 285, 267-279.	3.9	14
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