Ling Yu

List of Publications by Year in Descending Order

75 papers	1,327 citations	20 h-index	34 g-index
80 ext. papers	1,549 ext. citations	2.3 avg, IF	5.09 L-index

#	Paper	IF	Citations
75	Weighted Transmissibility Assurance Criterion for Structural Damage Detection. *Journal of Aerospace Engineering*, **2021**, 34, 04021016	1.4	4
74	Onsite Identification of Moving Vehicle Loads on Multispan Continuous Bridge Using Both Dictionary Expansion and Sparse Regularization. *Journal of Aerospace Engineering*, **2021**, 34, 04021018	1.4	2
73	A novel preconditioned range restricted GMRES algorithm for moving force identification and its experimental validation. *Mechanical Systems and Signal Processing*, **2021**, 155, 107635	7.8	4
72	A Multi-State Strategy for Structural Damage Detection Using Sensitivity of Weighted Transmissibility Function. *International Journal of Structural Stability and Dynamics*, **2021**, 21, 2150144	1.9	1
71	Regularization Strategies for Contiguous and Noncontiguous Damage Detection of Structures. *International Journal of Computational Methods*, **2021**, 18, 2140001	1.1	2
70	A semi-convex function for both constant and time-varying moving force identification. *Mechanical Systems and Signal Processing*, **2021**, 146, 107062	7.8	7
69	Comparison of regularization methods for moving force identification with ill-posed problems. *Journal of Sound and Vibration*, **2020**, 478, 115349	3.9	10
68	Compressed sensing for moving force identification using redundant dictionaries. *Mechanical Systems and Signal Processing*, **2020**, 138, 106535	7.8	20
67	A hybrid ant lion optimizer with improved Nelder Mead algorithm for structural damage detection by improving weighted trace lasso regularization. *Advances in Structural Engineering*, **2020**, 23, 468-484	1.9	23
66	A sparse self-estimated sensor-network for reconstructing moving vehicle forces. *Smart Materials and Structures*, **2019**, 28, 085009	3.4	6
65	Identification of vehicle axle loads from bridge responses using preconditioned least square QR-factorization algorithm. *Mechanical Systems and Signal Processing*, **2019**, 128, 479-496	7.8	21
64	Sparse regularization-based damage detection in a bridge subjected to unknown moving forces. *Journal of Civil Structural Health Monitoring*, **2019**, 9, 425-438	2.9	7
63	Identification of external forces via truncated response sparse decomposition under unknown initial conditions. *Advances in Structural Engineering*, **2019**, 22, 3161-3175	1.9	9
62	Comparative studies on structural damage detection using Lp norm regularisation. *International Journal of Lifecycle Performance Engineering*, **2019**, 3, 171	0.3	1
61	Sparse regularization for traffic load monitoring using bridge response measurements. *Measurement: Journal of the International Measurement Confederation*, **2019**, 131, 173-182	4.6	17
60	Structural damage detection via combining weighted strategy with trace Lasso. *Advances in Structural Engineering*, **2019**, 22, 597-612	1.9	8
59	A new structural damage detection strategy of hybrid PSO with Monte Carlo simulations and experimental verifications. *Measurement: Journal of the International Measurement Confederation*, **2018**, 122, 658-669	4.6	29

58	Moving force identification based on redundant concatenated dictionary and weighted l1-norm regularization. *Mechanical Systems and Signal Processing*, **2018**, 98, 32-49	7.8	75
57	Structural damage detection via adaptive dictionary learning and sparse representation of measured acceleration responses. *Measurement: Journal of the International Measurement Confederation*, **2018**, 128, 377-387	4.6	13
56	Cloud Computing-Based Time Series Analysis for Structural Damage Detection. *Journal of Engineering Mechanics - ASCE*, **2017**, 143,	2.4	17
55	Structural Damage Prognosis on Truss Bridges with End Connector Bolts. *Journal of Engineering Mechanics - ASCE*, **2017**, 143,	2.4	7
54	Identification of moving vehicle forces on bridge structures via moving average Tikhonov regularization. *Smart Materials and Structures*, **2017**, 26, 085041	3.4	24
53	PSO-based sparse regularization approach for structural damage detection **2017**,		2
52	Moving force identification based on particle swarm optimization **2016**,		3
51	A hybrid self-adaptive Firefly-Nelder-Mead algorithm for structural damage detection. *Smart Structures and Systems*, **2016**, 17, 957-980		18
50	The Structural Nonlinear Damage Detection Based on Linear Time Series Algorithm. *Applied Mechanics and Materials*, **2015**, 744-746, 345-350	0.3	1
49	Structural Damage Detection and Moving Force Identification Based on Firefly Algorithm. *Lecture Notes in Computer Science*, **2015**, 57-64	0.9	
48	An Improved PSO-NM Algorithm for Structural Damage Detection. *Lecture Notes in Computer Science*, **2015**, 124-132	0.9	5
47	Structural Damage Detection of Truss Bridge under Environmental Variability. *Applied Mathematics and Information Sciences*, **2015**, 9, 259-265	2.4	3
46	Nonlinear damage detection using higher statistical moments of structural responses. *Structural Engineering and Mechanics*, **2015**, 54, 221-237		29
45	A Global Artificial Fish Swarm Algorithm for Structural Damage Detection. *Advances in Structural Engineering*, **2014**, 17, 331-346	1.9	22
44	Damage assessment of two-way bending RC slabs subjected to blast loadings. *Scientific World Journal, The*, **2014**, 2014, 718702	2.2	4
43	Structural Damage Detection by Fusion of GA and PSO. *Advanced Materials Research*, **2014**, 919-921, 338-343	0.5	3
42	Optimal Sensor Placement Based on Tabu Search Algorithms. *Applied Mechanics and Materials*, **2014**, 578-579, 1069-1072	0.3	2
41	Moving Force Identification Based on Firefly Algorithm. *Advanced Materials Research*, **2014**, 919-921, 329-333	0.5	9

#	Title		
40	A Two Step Damage Prognosis Method for Beam-Like Truss Structures. *Applied Mechanics and Materials*, **2014**, 578-579, 1092-1095	0.3	
39	An Effective Independence-Improved Modal Strain Energy Method for Optimal Sensor Placement of Bridge Structures. *Applied Mechanics and Materials*, **2014**, 670-671, 1252-1255	0.3	0
38	A DE-Based Algorithm for Structural Damage Detection. *Advanced Materials Research*, **2014**, 919-921, 303-307	0.5	1
37	Structural Damage Detection in a Truss Bridge Model Using Fuzzy Clustering and Measured FRF Data Reduced by Principal Component Projection. *Advances in Structural Engineering*, **2013**, 16, 207-217	1.9	38
36	Structural Nonlinear Damage Identification Algorithm Based on Time Series ARMA/GARCH Model. *Advances in Structural Engineering*, **2013**, 16, 1597-1609	1.9	24
35	A MRACO Algorithm for Structural Multi-Damage Detection. *Applied Mechanics and Materials*, **2013**, 405-408, 2443-2447	0.3	
34	Structural Nonlinear Damage Detection Based on ARMA-GARCH Model. *Applied Mechanics and Materials*, **2012**, 204-208, 2891-2896	0.3	3
33	Modal Parameter Identification Method for Structural Health Monitoring Benchmark Model. *Advanced Materials Research*, **2012**, 594-597, 1113-1117	0.5	
32	Effect of Multi-Material Substitutions on Static and Dynamic Properties of Electric Vehicles. *Advanced Materials Research*, **2012**, 535-537, 1402-1407	0.5	0
31	Optimal Sensor Placement Based on MAC and SPGA Algorithms. *Advanced Materials Research*, **2012**, 594-597, 1118-1122	0.5	7
30	An eigenspace projection clustering method for structural damage detection. *Structural Engineering and Mechanics*, **2012**, 44, 179-196		4
29	A SI-Based Algorithm for Structural Damage Detection. *Lecture Notes in Computer Science*, **2012**, 21-28	0.9	4
28	Structural health monitoring based on continuous ACO method. *Microelectronics Reliability*, **2011**, 51, 270-278	1.2	42
27	Study on Global Stability of Mono-Overhanging Steel Beam. *Advanced Materials Research*, **2011**, 186, 151-155	0.5	
26	Parametric Effect on Bidirectional Moving Vehicle Load Identification. *Applied Mechanics and Materials*, **2011**, 66-68, 194-198	0.3	
25	Bidirectional Moving Force Identification on an Orthotropic Rectangular Plate. *Advanced Materials Research*, **2011**, 378-379, 171-175	0.5	
24	Flexibility-Based Objective Functions for Constrained Optimization Problems on Structural Damage Detection. *Advanced Materials Research*, **2011**, 186, 383-387	0.5	5
23	Bidirectional Moving Vehicle Load Identification from Bridge Responses. *Advanced Materials Research*, **2010**, 163-167, 2699-2703	0.5	2

#	Reference	IF	Cit.
22	Effect of Computational Patterns of PCA on Moving Force Identification. *Advanced Materials Research*, **2010**, 163-167, 2678-2682	0.5	
21	**2010**,		1
20	**2010**,		5
19	**2010**,		1
18	Damage Identification in Frame Structures Based on FE Model Updating. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2010**, 132,	1.6	22
17	An Improved PSO Algorithm and Its Application to Structural Damage Detection **2008**,		3
16	A MOM-based algorithm for moving force identification: Part I - Theory and numerical simulation. *Structural Engineering and Mechanics*, **2008**, 29, 135-154		19
15	A MOM-based algorithm for moving force identification: Part II - Experiment and comparative studies. *Structural Engineering and Mechanics*, **2008**, 29, 155-169		17
14	Evaluation of dynamic loads on a skew box girder continuous bridge Part II: Parametric study and dynamic load factor. *Engineering Structures*, **2007**, 29, 1064-1073	4.7	42
13	Evaluation of dynamic loads on a skew box girder continuous bridge Part I: Field test and modal analysis. *Engineering Structures*, **2007**, 29, 1052-1063	4.7	36
12	Recent research on identification of moving loads on bridges. *Journal of Sound and Vibration*, **2007**, 305, 3-21	3.9	102
11	Noise analysis for sensitivity-based structural damage detection. *Applied Mathematics and Mechanics (English Edition)*, **2007**, 28, 741-750	3.2	17
10	Fiber Bragg grating sensors for structural health monitoring of Tsing Ma bridge: Background and experimental observation. *Engineering Structures*, **2006**, 28, 648-659	4.7	284
9	Moving force identification from bridge dynamic responses. *Structural Engineering and Mechanics*, **2005**, 21, 369-374		8
8	Identification of Multi-Axle Vehicle Loads on Bridges. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2004**, 126, 17-26	1.6	8
7	Moving force identification based on the frequency-time domain method. *Journal of Sound and Vibration*, **2003**, 261, 329-349	3.9	65
6	A new bridge-vehicle system part I: Formulation and validation. *Structural Engineering and Mechanics*, **2003**, 15, 1-19		8
5	A new bridge-vehicle system part II: Parametric study. *Structural Engineering and Mechanics*, **2003**, 15, 21-38		6

4	Moving force identification from bending moment responses of bridge. *Structural Engineering and Mechanics*, **2002**, 14, 151-170		14
3	MOVING FORCE IDENTIFICATION STUDIES, II: COMPARATIVE STUDIES. *Journal of Sound and Vibration*, **2001**, 247, 77-95	3.9	38
2	MOVING FORCE IDENTIFICATION STUDIES, I: THEORY. *Journal of Sound and Vibration*, **2001**, 247, 59-76	3.9	55
1	COMPARATIVE STUDIES ON MOVING FORCE IDENTIFICATION FROM BRIDGE STRAINS IN LABORATORY. *Journal of Sound and Vibration*, **2000**, 235, 87-104	3.9	37