

# Vinh Ho-Huu

## List of Publications by Year in descending order

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44  
papers

1,555  
citations

361296

20  
h-index

302012

39  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1181  
citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive elitist differential evolution for optimization of truss structures with discrete design variables. <i>Computers and Structures</i> , 2016, 165, 59-75.	2.4	150
2	Multi-objective optimization of laminated composite beam structures using NSGA-II algorithm. <i>Composite Structures</i> , 2017, 168, 498-509.	3.1	102
3	A two-step approach for damage detection in laminated composite structures using modal strain energy method and an improved differential evolution algorithm. <i>Composite Structures</i> , 2016, 147, 42-53.	3.1	97
4	An improved differential evolution based on roulette wheel selection for shape and size optimization of truss structures with frequency constraints. <i>Neural Computing and Applications</i> , 2018, 29, 167-185.	3.2	97
5	An improved constrained differential evolution using discrete variables (D-ICDE) for layout optimization of truss structures. <i>Expert Systems With Applications</i> , 2015, 42, 7057-7069.	4.4	76
6	Static and frequency optimization of folded laminated composite plates using an adjusted Differential Evolution algorithm and a smoothed triangular plate element. <i>Composite Structures</i> , 2015, 127, 382-394.	3.1	62
7	Optimal design of truss structures with frequency constraints using improved differential evolution algorithm based on an adaptive mutation scheme. <i>Automation in Construction</i> , 2016, 68, 81-94.	4.8	62
8	Free vibration analysis of cracked Mindlin plate using an extended cell-based smoothed discrete shear gap method (XCS-DSC3). <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 72, 150-163.	2.1	59
9	Optimization of laminated composite plates for maximizing buckling load using improved differential evolution and smoothed finite element method. <i>Composite Structures</i> , 2016, 146, 132-147.	3.1	59
10	An improved MOEA/D algorithm for bi-objective optimization problems with complex Pareto fronts and its application to structural optimization. <i>Expert Systems With Applications</i> , 2018, 92, 430-446.	4.4	59
11	An efficient multi-stage optimization approach for damage detection in plate structures. <i>Advances in Engineering Software</i> , 2017, 112, 76-87.	1.8	54
12	A global numerical approach for lightweight design optimization of laminated composite plates subjected to frequency constraints. <i>Composite Structures</i> , 2017, 159, 646-655.	3.1	53
13	An effective reliability-based improved constrained differential evolution for reliability-based design optimization of truss structures. <i>Advances in Engineering Software</i> , 2016, 92, 48-56.	1.8	51
14	Free vibration analysis of laminated FG-CNT reinforced composite beams using finite element method. <i>Frontiers of Structural and Civil Engineering</i> , 2019, 13, 324-336.	1.2	51
15	Damage assessment in plate-like structures using a two-stage method based on modal strain energy change and Jaya algorithm. <i>Inverse Problems in Science and Engineering</i> , 2019, 27, 166-189.	1.2	48
16	Analysis and control of FGM plates integrated with piezoelectric sensors and actuators using cell-based smoothed discrete shear gap method (CS-DSC3). <i>Composite Structures</i> , 2017, 165, 115-129.	3.1	45
17	An efficient combination of multi-objective evolutionary optimization and reliability analysis for reliability-based design optimization of truss structures. <i>Expert Systems With Applications</i> , 2018, 102, 262-272.	4.4	34
18	Damage Detection in Laminated Composite Plates Using Modal Strain Energy and Improved Differential Evolution Algorithm. <i>Procedia Engineering</i> , 2016, 142, 182-189.	1.2	32

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19	A two-stage assessment method using damage locating vector method and differential evolution algorithm for damage identification of cross-ply laminated composite beams. <i>Advances in Structural Engineering</i> , 2017, 20, 1807-1827.	1.2	25
20	Parameter identification using adaptive differential evolution algorithm applied to robust control of uncertain nonlinear systems. <i>Applied Soft Computing Journal</i> , 2018, 71, 672-684.	4.1	24
21	Static and Free Vibration Analyses of Functionally Graded Carbon Nanotube Reinforced Composite Plates using CS-DSG3. <i>International Journal of Computational Methods</i> , 2020, 17, 1850133.	0.8	21
22	An Extended Cell-Based Smoothed Three-Node Mindlin Plate Element (XCS-MIN3) for Free Vibration Analysis of Cracked FGM Plates. <i>International Journal of Computational Methods</i> , 2017, 14, 1750011.	0.8	20
23	Modified genetic algorithm-based clustering for probability density functions. <i>Journal of Statistical Computation and Simulation</i> , 2017, 87, 1964-1979.	0.7	20
24	An efficient coupled numerical method for reliability-based design optimization of steel frames. <i>Journal of Constructional Steel Research</i> , 2017, 138, 389-400.	1.7	20
25	An Efficient Application of the MOEA/D Algorithm for Designing Noise Abatement Departure Trajectories. <i>Aerospace</i> , 2017, 4, 54.	1.1	19
26	An edge-based smoothed finite element method (ES-FEM) for dynamic analysis of 2D Fluid-Solid interaction problems. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 641-650.	0.9	18
27	An Effective Couple Method for Reliability-Based Multi-Objective Optimization of Truss Structures with Static and Dynamic Constraints. <i>International Journal of Computational Methods</i> , 2020, 17, 1950016.	0.8	18
28	Buckling analysis of non-uniform thickness nanoplates in an elastic medium using the isogeometric analysis. <i>Composite Structures</i> , 2017, 162, 182-193.	3.1	15
29	Integrated design and allocation of optimal aircraft departure routes. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 63, 689-705.	3.2	15
30	Frequency optimization of laminated functionally graded carbon nanotube reinforced composite quadrilateral plates using smoothed FEM and evolution algorithm. <i>Journal of Composite Materials</i> , 2018, 52, 1971-1986.	1.2	14
31	A global single-loop deterministic approach for reliability-based design optimization of truss structures with continuous and discrete design variables. <i>Engineering Optimization</i> , 2018, 50, 2071-2090.	1.5	13
32	A combination of damage locating vector method (DLV) and differential evolution algorithm (DE) for structural damage assessment. <i>Frontiers of Structural and Civil Engineering</i> , 2018, 12, 92-108.	1.2	13
33	A neural differential evolution identification approach to nonlinear systems and modelling of shape memory alloy actuator. <i>Asian Journal of Control</i> , 2018, 20, 57-70.	1.9	13
34	Multi-objective optimal design of magnetorheological brakes for motorcycling application considering thermal effect in working process. <i>Smart Materials and Structures</i> , 2018, 27, 075060.	1.8	13
35	Air traffic assignment based on daily population mobility to reduce aircraft noise effects and fuel consumption. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 72, 127-147.	3.2	13
36	An optimization framework for route design and allocation of aircraft to multiple departure routes. <i>Transportation Research, Part D: Transport and Environment</i> , 2019, 76, 273-288.	3.2	13

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37	An extended cell-based smoothed discrete shear gap method (XCS-FEM-DSG3) for free vibration analysis of cracked Reissner-Mindlin shells. <i>Frontiers of Structural and Civil Engineering</i> , 2015, 9, 341-358.	1.2	12
38	A new design approach based on differential evolution algorithm for geometric optimization of magnetorheological brakes. <i>Smart Materials and Structures</i> , 2016, 25, 125020.	1.8	12
39	Optimal Design of Circular Baffles on Sloshing in a Rectangular Tank Horizontally Coupled by Structure. <i>Water (Switzerland)</i> , 2018, 10, 1504.	1.2	11
40	A multilevel optimization approach to route design and flight allocation taking aircraft sequence and separation constraints into account. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 117, 102684.	3.9	10
41	Optimization of noise abatement aircraft terminal routes using a multi-objective evolutionary algorithm based on decomposition. <i>Transportation Research Procedia</i> , 2018, 29, 157-168.	0.8	5
42	An Immersed Boundary Proper Generalized Decomposition (IB-PGD) for Fluid-Structure Interaction Problems. <i>International Journal of Computational Methods</i> , 2018, 15, 1850045.	0.8	3
43	Deterministic and reliability-based lightweight design of Timoshenko composite beams. <i>Engineering With Computers</i> , 2020, 37, 2329.	3.5	3
44	Impact of Continuous Climb Operations in ATC workload. Case-study Palma airport. <i>Journal of Air Transport Management</i> , 2020, 89, 101890.	2.4	0