

Dimitrios C Rizos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/365991/publications.pdf>

Version: 2024-02-01

42
papers

612
citations

567281

15
h-index

610901

24
g-index

42
all docs

42
docs citations

42
times ranked

447
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust non-iterative algorithm for multi-body dynamics and vehicle-structure interaction analysis. <i>Vehicle System Dynamics</i> , 2022, 60, 1209-1227.	3.7	3
2	Compensation technique for accurate acceleration measurements using a UAV deployable and retrievable sensor package. , 2022, , .		0
3	A non-contacting system for rail neutral temperature and stress measurements: Concept development. <i>Structural Health Monitoring</i> , 2021, 20, 84-100.	7.5	10
4	Automatic Rail Surface Defects Inspection Based on Mask R-CNN. <i>Transportation Research Record</i> , 2021, 2675, 655-668.	1.9	18
5	Drone-Based Vibration Monitoring and Assessment of Structures. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8560.	2.5	13
6	Satellite Radar Imagery for Detection and Monitoring of Geohazards. <i>Transportation Research Record</i> , 2020, 2674, 283-292.	1.9	0
7	Advantages of using digital image correlation techniques in uniaxial compression tests. <i>Results in Engineering</i> , 2020, 6, 100109.	5.1	21
8	Dynamic Structural Health Monitoring using a DIC-enabled drone. , 2019, , .		14
9	Benefits of high strength reduced modulus (HSRM) concrete railroad ties under center binding support conditions. <i>Construction and Building Materials</i> , 2018, 192, 210-223.	7.2	7
10	B-Spline Impulse Response Functions of Rigid Bodies for Fluid-Structure Interaction Analysis. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-10.	0.7	1
11	Recent Progress in Digital Image Correlation: Background and Developments since the 2013 W M Murray Lecture. <i>Experimental Mechanics</i> , 2017, 57, 1-30.	2.0	111
12	Finite Element Model of High Strength Reduced Modulus High Performance Concrete. , 2016, , .		0
13	High-Strength Reduced-Modulus High Performance Concrete (HSRM-HPC) for Prestressed Concrete Tie Applications. , 2016, , .		2
14	Digital Image Correlation Techniques for Prestressed Concrete Tie Quality Control. , 2016, , .		0
15	Transfer Length Probabilistic Model Updating in High Performance Concrete. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 325-330.	0.5	1
16	Highly Stable Explicit Temporal Integration for Discrete Element Computations. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, 04014084.	4.7	0
17	Studies on the Accuracy Stability and Efficiency of a New Time Integration Scheme for Ballast Modeling Using the Discrete Element Method. , 2014, , .		0
18	On the Development and Implementation of Scalable Models of Long Tracks for the Rapid Computation of Transient Response and Dynamic Interaction of Train-Track Systems due to High Speed and Freight Train Traffic. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
19	A coupled computational method for multi-solver, multi-domain transient problems in elastodynamics. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 34, 78-88.	3.8	5
20	A procedure to develop scalable models for the transient response of sleepers in conventional and high-speed railway lines and implementation to the vertical vibration mode. <i>Soil Dynamics and Earthquake Engineering</i> , 2011, 31, 502-511.	3.8	1
21	Time Domain B-Spline BEM Methods for Wave Propagation in 3-D Solids and Fluids Including Dynamic Interaction Effects of Coupled Media. , 2009, , 379-397.		0
22	Considering dynamic soil structure interaction (SSI) effects on seismic isolation retrofit efficiency and the importance of natural frequency ratio. <i>Soil Dynamics and Earthquake Engineering</i> , 2008, 28, 468-479.	3.8	19
23	Strengthening of Reinforced Concrete Bridge Decks Using Carbon Fiber-Reinforced Polymer Composite Materials. <i>Journal of Bridge Engineering</i> , 2008, 13, 455-467.	2.9	18
24	Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 55-64.	1.9	0
25	Development and applications of a staggered FEM-BEM methodology for ground vibrations due to moving train loads. <i>Structures and Infrastructures Series</i> , 2008, , 188-202.	0.2	1
26	Structural performance and design evaluation of HPS 70W bridge girders. <i>Journal of Constructional Steel Research</i> , 2007, 63, 909-921.	3.9	17
27	An advanced direct time domain BEM for 3-D wave propagation in acoustic media. <i>Journal of Sound and Vibration</i> , 2006, 293, 196-212.	3.9	17
28	B-Spline impulse response functions (BIRF) for transient SSI analysis of rigid foundations. <i>Soil Dynamics and Earthquake Engineering</i> , 2006, 26, 421-434.	3.8	7
29	A 3D BEM-FEM methodology for simulation of high speed train induced vibrations. <i>Soil Dynamics and Earthquake Engineering</i> , 2005, 25, 289-301.	3.8	75
30	Computer simulations and parametric studies of GFRP bridge deck systems. <i>Composite Structures</i> , 2005, 69, 103-115.	5.8	18
31	Critical Evaluation of Strain Measurements in Glass Fiber-Reinforced Polymer Bridge Decks. <i>Journal of Bridge Engineering</i> , 2005, 10, 704-712.	2.9	20
32	Software Development for Berthing Analysis and Structural Loading on Waterfront Facilities. , 2004, , 1.		0
33	Effects of superstructure flexibility on strength of reinforced concrete bridge decks. <i>Computers and Structures</i> , 2004, 82, 13-23.	4.4	12
34	In situ structural evaluation of a GFRP bridge deck system. <i>Composite Structures</i> , 2004, 65, 157-165.	5.8	44
35	Dynamic and Seismic Analysis of Foundations based on Free Field B-Spline Characteristic Response Histories. <i>Journal of Engineering Mechanics - ASCE</i> , 2002, 128, 438-448.	2.9	15
36	Coupled BEM-FEM solutions for direct time domain soil-structure interaction analysis. <i>Engineering Analysis With Boundary Elements</i> , 2002, 26, 877-888.	3.7	56

#	ARTICLE	IF	CITATIONS
37	Simulation of earthquake ground motions by a deterministic approach. <i>Advances in Engineering Software</i> , 2000, 31, 329-338.	3.8	15
38	A rigid surface boundary element for soil-structure interaction analysis in the direct time domain. <i>Computational Mechanics</i> , 2000, 26, 582-591.	4.0	15
39	A time domain BEM for 3-D elastodynamic analysis using the B-spline fundamental solutions. <i>Computational Mechanics</i> , 1998, 22, 108-115.	4.0	21
40	An advanced direct time domain BEM formulation for general 3-D elastodynamic problems. <i>Computational Mechanics</i> , 1994, 15, 249-269.	4.0	33
41	Transient solution of 2-D flow in unconfined coastal aquifers. <i>Engineering Analysis With Boundary Elements</i> , 1993, 11, 215-224.	3.7	0
42	An Integrated BEM Algorithm for Transient 2-D Flow in Unconfined Aquifers. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1992, 7, 333-340.	9.8	2