

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	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
2	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
3	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
4	In situ structural evaluation of a GFRP bridge deck system. <i>Composite Structures</i> , 2004, 65, 157-165.	5.8	44
5	An advanced direct time domain BEM formulation for general 3-D elastodynamic problems. <i>Computational Mechanics</i> , 1994, 15, 249-269.	4.0	33
6	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
7	Advantages of using digital image correlation techniques in uniaxial compression tests. <i>Results in Engineering</i> , 2020, 6, 100109.	5.1	21
8	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
9	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
10	Computer simulations and parametric studies of GFRP bridge deck systems. <i>Composite Structures</i> , 2005, 69, 103-115.	5.8	18
11	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
12	Automatic Rail Surface Defects Inspection Based on Mask R-CNN. <i>Transportation Research Record</i> , 2021, 2675, 655-668.	1.9	18
13	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
14	Structural performance and design evaluation of HPS 70W bridge girders. <i>Journal of Constructional Steel Research</i> , 2007, 63, 909-921.	3.9	17
15	Simulation of earthquake ground motions by a deterministic approach. <i>Advances in Engineering Software</i> , 2000, 31, 329-338.	3.8	15
16	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
17	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
18	Dynamic Structural Health Monitoring using a DIC-enabled drone. , 2019, , .		14

#	ARTICLE	IF	CITATIONS
19	Drone-Based Vibration Monitoring and Assessment of Structures. Applied Sciences (Switzerland), 2021, 11, 8560.	2.5	13
20	Effects of superstructure flexibility on strength of reinforced concrete bridge decks. Computers and Structures, 2004, 82, 13-23.	4.4	12
21	A non-contacting system for rail neutral temperature and stress measurements: Concept development. Structural Health Monitoring, 2021, 20, 84-100.	7.5	10
22	B-Spline impulse response functions (BIRF) for transient SSI analysis of rigid foundations. Soil Dynamics and Earthquake Engineering, 2006, 26, 421-434.	3.8	7
23	Benefits of high strength reduced modulus (HSRM) concrete railroad ties under center binding support conditions. Construction and Building Materials, 2018, 192, 210-223.	7.2	7
24	A coupled computational method for multi-solver, multi-domain transient problems in elastodynamics. Soil Dynamics and Earthquake Engineering, 2012, 34, 78-88.	3.8	5
25	A robust non-iterative algorithm for multi-body dynamics and vehicle-structure interaction analysis. Vehicle System Dynamics, 2022, 60, 1209-1227.	3.7	3
26	An Integrated BEM Algorithm for Transient 2-D Flow in Unconfined Aquifers. Computer-Aided Civil and Infrastructure Engineering, 1992, 7, 333-340.	9.8	2
27	High-Strength Reduced-Modulus High Performance Concrete (HSRM-HPC) for Prestressed Concrete Tie Applications. , 2016, , .		2
28	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. Soil Dynamics and Earthquake Engineering, 2011, 31, 502-511.	3.8	1
29	B-Spline Impulse Response Functions of Rigid Bodies for Fluid-Structure Interaction Analysis. Advances in Civil Engineering, 2018, 2018, 1-10.	0.7	1
30	Development and applications of a staggered FEM-BEM methodology for ground vibrations due to moving train loads. Structures and Infrastructures Series, 2008, , 188-202.	0.2	1
31	Transfer Length Probabilistic Model Updating in High Performance Concrete. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 325-330.	0.5	1
32	Transient solution of 2-D flow in unconfined coastal aquifers. Engineering Analysis With Boundary Elements, 1993, 11, 215-224.	3.7	0
33	Software Development for Berthing Analysis and Structural Loading on Waterfront Facilities. , 2004, , 1.		0
34	Estimating Net Changes in Life-Cycle Emissions from Adoption of Emerging Civil Infrastructure Technologies. Journal of the Air and Waste Management Association, 2008, 58, 55-64.	1.9	0
35	Studies on the Accuracy Stability and Efficiency of a New Time Integration Scheme for Ballast Modeling Using the Discrete Element Method. , 2014, , .		0
36	Highly Stable Explicit Temporal Integration for Discrete Element Computations. Journal of Computing in Civil Engineering, 2015, 29, 04014084.	4.7	0

#	ARTICLE	IF	CITATIONS
37	Finite Element Model of High Strength Reduced Modulus High Performance Concrete. , 2016, , .		0
38	Digital Image Correlation Techniques for Prestressed Concrete Tie Quality Control. , 2016, , .		0
39	Satellite Radar Imagery for Detection and Monitoring of Geohazards. Transportation Research Record, 2020, 2674, 283-292.	1.9	0
40	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
41	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
42	Compensation technique for accurate acceleration measurements using a UAV deployable and retrievable sensor package. , 2022, , .		0