

# Arun Prakash

## List of Publications by Year in descending order

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25  
papers

327  
citations

1039880

9  
h-index

887953

17  
g-index

26  
all docs

26  
docs citations

26  
times ranked

222  
citing authors

#	ARTICLE	IF	CITATIONS
1	A FETI-based multi-time-step coupling method for Newmark schemes in structural dynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 61, 2183-2204.	1.5	76
2	Predictive stability indicator: a novel approach to configuring a real-time hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 95-116.	2.5	41
3	Establishing a predictive performance indicator for real-time hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 2299-2318.	2.5	39
4	Establishing a stability switch criterion for effective implementation of real-time hybrid simulation. <i>Smart Structures and Systems</i> , 2014, 14, 1221-1245.	1.9	31
5	Real time hybrid simulation with online model updating: An analysis of accuracy. <i>Mechanical Systems and Signal Processing</i> , 2017, 84, 223-240.	4.4	30
6	Enabling fast, stable and accurate peridynamic computations using multi-time-step integration. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 306, 382-405.	3.4	16
7	Computationally efficient multi-time-step method for partitioned time integration of highly nonlinear structural dynamics. <i>Computers and Structures</i> , 2014, 133, 51-63.	2.4	15
8	On dual Schur domain decomposition method for linear first-order transient problems. <i>Journal of Computational Physics</i> , 2009, 228, 7957-7985.	1.9	11
9	Adaptive multi-rate interface: development and experimental verification for real-time hybrid simulation. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1411-1425.	2.5	11
10	Real-time system support for hybrid structural simulation. , 2014, , .		8
11	Effect of Local Damage Caused by Overweight Trucks on the Durability of Steel Bridges. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	1.0	8
12	Parallel Ellipsoidal Perfectly Matched Layers for Acoustic Helmholtz Problems on Exterior Domains. <i>Journal of Theoretical and Computational Acoustics</i> , 2018, 26, 1850015.	0.5	8
13	Modified Runge-Kutta Integration Algorithm for Improved Stability and Accuracy in Real Time Hybrid Simulation. <i>Journal of Earthquake Engineering</i> , 2015, 19, 1112-1139.	1.4	6
14	Variationally consistent coupling of non-matching discretizations for large deformation problems. <i>Computational Mechanics</i> , 2017, 60, 465-478.	2.2	6
15	Exploiting domain knowledge to optimize parallel computational mechanics codes. , 2013, , .		5
16	Local- and field-scale stochastic advective vertical solute transport in horizontally heterogeneous unsaturated soils. <i>Water Resources Research</i> , 2014, 50, 6658-6678.	1.7	3
17	Temporal moment analysis for stochastic-advective vertical solute transport in heterogeneous unsaturated soils. <i>Journal of Hydrology</i> , 2015, 521, 261-273.	2.3	3
18	Characterizing Errors and Evaluating Performance of Transient Simulations Using Multi-Time-Step Integration. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	2.5	3

#	ARTICLE	IF	CITATIONS
19	Exploiting semantics of temporal multi-scale methods to optimize multi-level mesh partitioning. International Journal for Numerical Methods in Engineering, 2017, 112, 58-85.	1.5	2
20	On component isolation of conceptual advanced reactors. Nuclear Engineering and Technology, 2022, 54, 2974-2988.	1.1	2
21	Flow-driven spectral chaos (FSC) method for simulating long-time dynamics of arbitrary-order non-linear stochastic dynamical systems. Journal of Computational Physics, 2021, 430, 110044.	1.9	1
22	Flow-driven spectral chaos (FSC) method for long-time integration of second-order stochastic dynamical systems. Journal of Computational and Applied Mathematics, 2021, 398, 113674.	1.1	1
23	Parallel Ellipsoidal Perfectly Matched Layers for Acoustic Helmholtz Problems on Exterior Domains. Journal of Computational Acoustics, 0, , 1850015.	1.0	0
24	Effect of Soil Properties and Input Motion on Site Amplification Using Validated Nonlinear Soil Model. Nuclear Technology, 2021, 207, 1639-1663.	0.7	0
25	Multi-element flow-driven spectral chaos (ME-FSC) method for uncertainty quantification of dynamical systems. Journal of Computational Physics, 2022, 467, 111425.	1.9	0