Martin Servin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2771808/publications.pdf

Version: 2024-02-01

34	591	567281	610901
papers	citations	15 h-index	24 g-index

35	35	35	452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Constraint Fluids. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 516-526.	4.4	53
2	Semi-autonomous shared control of large-scale manipulator arms. Control Engineering Practice, 2010, 18, 1069-1076.	5.5	45
3	Resonant interaction between gravitational waves, electromagnetic waves, and plasma flows. Physical Review D, 2003, 68, .	4.7	43
4	Rigid Body Cable for Virtual Environments. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 783-796.	4.4	37
5	A long-tracked bogie design for forestry machines on soft and rough terrain. Journal of Terramechanics, 2013, 50, 73-83.	3.1	35
6	Charged multifluids in general relativity. Classical and Quantum Gravity, 2003, 20, 1823-1834.	4.0	32
7	New low-frequency nonlinear electromagnetic wave in a magnetized plasma. Plasma Physics and Controlled Fusion, 2005, 47, L25-L29.	2.1	30
8	Photon frequency conversion induced by gravitational radiation. Physical Review D, 2001, 63, .	4.7	28
9	Parametric excitation of AlfvÃ©n waves by gravitational radiation. Physical Review E, 2000, 62, 8493-8500.	2.1	27
10	Hybrid, Multiresolution Wires with Massless Frictional Contacts. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 970-982.	4.4	26
11	Parametrization and validation of a nonsmooth discrete element method for simulating flows of iron ore green pellets. Powder Technology, 2015, 283, 475-487.	4.2	26
12	Cyclotron damping and Faraday rotation of gravitational waves. Physical Review D, 2001, 64, .	4.7	25
13	Examining the smooth and nonsmooth discrete element approaches to granular matter. International Journal for Numerical Methods in Engineering, 2014, 97, 878-902.	2.8	25
14	Massless Cable for Real-time Simulation. Computer Graphics Forum, 2007, 26, 172-184.	3.0	18
15	Continuous Control of an Underground Loader Using Deep Reinforcement Learning. Machines, 2021, 9, 216.	2.2	17
16	Nonlinear standing waves in bounded plasmas. Physical Review E, 2002, 66, 046403.	2.1	15
17	Control of Rough Terrain Vehicles Using Deep Reinforcement Learning. IEEE Robotics and Automation Letters, 2022, 7, 390-397.	5.1	11
18	Rigid multibody simulation of a helix-like structure: the dynamics of bacterial adhesion pili. European Biophysics Journal, 2015, 44, 291-300.	2.2	10

#	Article	IF	Citations
19	Computational exploration of robotic rock loading. Robotics and Autonomous Systems, 2018, 106, 117-129.	5.1	10
20	Reinforcement Learning Control of a Forestry Crane Manipulator. , 2021, , .		10
21	Discrete element modelling of large soil deformations under heavy vehicles. Journal of Terramechanics, 2021, 93, 11-21.	3.1	9
22	Nonlinear self-interaction of plane gravitational waves. Physical Review D, 2003, 67, .	4.7	7
23	Simulation of boom-corridor thinning using a double-crane system and different levels of automation. International Journal of Forest Engineering, 2013, 24, 16-23.	0.8	7
24	Data-driven model order reduction for granular media. Computational Particle Mechanics, 2022, 9, 15-28.	3.0	7
25	Digital Twins with Distributed Particle Simulation for Mine-to-Mill Material Tracking. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Over	2.0	7
26	Outlet design optimization based on large-scale nonsmooth DEM simulation. Powder Technology, 2014, 253, 438-443.	4.2	6
27	Adaptive model reduction for nonsmooth discrete element simulation. Computational Particle Mechanics, 2016, 3, 107-121.	3.0	6
28	Warm starting the projected Gaussâ€“Seidel algorithm for granular matter simulation. Computational Particle Mechanics, 2016, 3, 43-52.	3.0	4
29	Designing waste rock barriers by advanced numerical modelling. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 659-675.	8.1	4
30	A multiscale model of terrain dynamics for real-time earthmoving simulation. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .	1.7	3
31	Learning multiobjective rough terrain traversability. Journal of Terramechanics, 2022, 102, 17-26.	3.1	3
32	Self-phase modulation of spherical gravitational waves. Physical Review D, 2003, 68, .	4.7	2
33	Particle-based solid for nonsmooth multidomain dynamics. Computational Particle Mechanics, 2018, 5, 125-139.	3.0	1
34	Propagation of electromagnetically generated wake fields in inhomogeneous magnetized plasmas. Journal of Plasma Physics, 2002, 67, 339-351.	2.1	0