

Martin Servin

List of Publications by Year in descending order

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papers

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35
all docs

35
docs citations

35
times ranked

452
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven model order reduction for granular media. Computational Particle Mechanics, 2022, 9, 15-28.	3.0	7
2	Control of Rough Terrain Vehicles Using Deep Reinforcement Learning. IEEE Robotics and Automation Letters, 2022, 7, 390-397.	5.1	11
3	Learning multiobjective rough terrain traversability. Journal of Terramechanics, 2022, 102, 17-26.	3.1	3
4	Discrete element modelling of large soil deformations under heavy vehicles. Journal of Terramechanics, 2021, 93, 11-21.	3.1	9
5	A multiscale model of terrain dynamics for real-time earthmoving simulation. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .	1.7	3
6	Digital Twins with Distributed Particle Simulation for Mine-to-Mill Material Tracking. Minerals (Basel,) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5	2.0	7
7	Continuous Control of an Underground Loader Using Deep Reinforcement Learning. Machines, 2021, 9, 216.	2.2	17
8	Reinforcement Learning Control of a Forestry Crane Manipulator. , 2021, , .		10
9	Designing waste rock barriers by advanced numerical modelling. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 659-675.	8.1	4
10	Particle-based solid for nonsmooth multidomain dynamics. Computational Particle Mechanics, 2018, 5, 125-139.	3.0	1
11	Computational exploration of robotic rock loading. Robotics and Autonomous Systems, 2018, 106, 117-129.	5.1	10
12	Warm starting the projected Gauss-Seidel algorithm for granular matter simulation. Computational Particle Mechanics, 2016, 3, 43-52.	3.0	4
13	Adaptive model reduction for nonsmooth discrete element simulation. Computational Particle Mechanics, 2016, 3, 107-121.	3.0	6
14	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
15	Rigid multibody simulation of a helix-like structure: the dynamics of bacterial adhesion pili. European Biophysics Journal, 2015, 44, 291-300.	2.2	10
16	Outlet design optimization based on large-scale nonsmooth DEM simulation. Powder Technology, 2014, 253, 438-443.	4.2	6
17	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
18	A long-tracked bogie design for forestry machines on soft and rough terrain. Journal of Terramechanics, 2013, 50, 73-83.	3.1	35

#	ARTICLE	IF	CITATIONS
19	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
20	Constraint Fluids. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 516-526.	4.4	53
21	Hybrid, Multiresolution Wires with Massless Frictional Contacts. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 970-982.	4.4	26
22	Semi-autonomous shared control of large-scale manipulator arms. Control Engineering Practice, 2010, 18, 1069-1076.	5.5	45
23	Rigid Body Cable for Virtual Environments. IEEE Transactions on Visualization and Computer Graphics, 2008, 14, 783-796.	4.4	37
24	Massless Cable for Real-time Simulation. Computer Graphics Forum, 2007, 26, 172-184.	3.0	18
25	New low-frequency nonlinear electromagnetic wave in a magnetized plasma. Plasma Physics and Controlled Fusion, 2005, 47, L25-L29.	2.1	30
26	Nonlinear self-interaction of plane gravitational waves. Physical Review D, 2003, 67, .	4.7	7
27	Self-phase modulation of spherical gravitational waves. Physical Review D, 2003, 68, .	4.7	2
28	Resonant interaction between gravitational waves, electromagnetic waves, and plasma flows. Physical Review D, 2003, 68, .	4.7	43
29	Charged multifluids in general relativity. Classical and Quantum Gravity, 2003, 20, 1823-1834.	4.0	32
30	Nonlinear standing waves in bounded plasmas. Physical Review E, 2002, 66, 046403.	2.1	15
31	Propagation of electromagnetically generated wake fields in inhomogeneous magnetized plasmas. Journal of Plasma Physics, 2002, 67, 339-351.	2.1	0
32	Cyclotron damping and Faraday rotation of gravitational waves. Physical Review D, 2001, 64, .	4.7	25
33	Photon frequency conversion induced by gravitational radiation. Physical Review D, 2001, 63, .	4.7	28
34	Parametric excitation of Alfvén waves by gravitational radiation. Physical Review E, 2000, 62, 8493-8500.	2.1	27