

Jinao Jake Zhang

List of Publications by Year in descending order

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21
papers

303
citations

932766

10
h-index

887659

17
g-index

22
all docs

22
docs citations

22
times ranked

259
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards real-time finite-strain anisotropic thermo-visco-elastodynamic analysis of soft tissues for thermal ablative therapy. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 198, 105789.	2.6	10
2	A direct Jacobian total Lagrangian explicit dynamics finite element algorithm for real-time simulation of hyperelastic materials. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 5744-5772.	1.5	6
3	Fast computation of soft tissue thermal response under deformation based on fast explicit dynamics finite element algorithm for surgical simulation. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 187, 105244.	2.6	16
4	Fast computation of desired thermal dose: Application to focused ultrasound-induced lesion planning. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 77, 666-682.	1.2	5
5	Heat conduction-based methodology for nonlinear soft tissue deformation. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 147-161.	1.3	2
6	Modeling of soft tissue thermal damage based on GPU acceleration. <i>Computer Assisted Surgery</i> , 2019, 24, 5-12.	0.6	5
7	Neural network methodology for real-time modelling of bio-heat transfer during thermo-therapeutic applications. <i>Artificial Intelligence in Medicine</i> , 2019, 101, 101728.	3.8	12
8	Real-time computation of bio-heat transfer in the fast explicit dynamics finite element algorithm (FED-FEM) framework. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2019, 75, 217-238.	0.6	15
9	Fast explicit dynamics finite element algorithm for transient heat transfer. <i>International Journal of Thermal Sciences</i> , 2019, 139, 160-175.	2.6	25
10	Neural network modelling of soft tissue deformation for surgical simulation. <i>Artificial Intelligence in Medicine</i> , 2019, 97, 61-70.	3.8	25
11	Neural dynamics-based Poisson propagation for deformable modelling. <i>Neural Computing and Applications</i> , 2019, 31, 1091-1101.	3.2	14
12	Deformable Models for Surgical Simulation: A Survey. <i>IEEE Reviews in Biomedical Engineering</i> , 2018, 11, 143-164.	13.1	79
13	Energy propagation modeling of nonlinear soft tissue deformation for surgical simulation. <i>Simulation</i> , 2018, 94, 3-10.	1.1	8
14	Ellipsoid bounding region-based ChainMail algorithm for soft tissue deformation in surgical simulation. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 903-918.	1.3	13
15	GPU-ACCELERATED FINITE ELEMENT MODELING OF BIO-HEAT CONDUCTION FOR SIMULATION OF THERMAL ABLATION. <i>Journal of Mechanics in Medicine and Biology</i> , 2018, 18, 1840012.	0.3	5
16	TEMPERATURE-DEPENDENT THERMOMECHANICAL MODELING OF SOFT TISSUE DEFORMATION. <i>Journal of Mechanics in Medicine and Biology</i> , 2018, 18, 1840021.	0.3	5
17	Soft tissue deformation modelling through neural dynamics-based reaction-diffusion mechanics. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 2163-2176.	1.6	4
18	ChainMail based neural dynamics modeling of soft tissue deformation for surgical simulation. <i>Technology and Health Care</i> , 2017, 25, 231-239.	0.5	9

#	ARTICLE	IF	CITATIONS
19	Energy balance method for modelling of soft tissue deformation. CAD Computer Aided Design, 2017, 93, 15-25.	1.4	15
20	Cellular neural network modelling of soft tissue dynamics for surgical simulation. Technology and Health Care, 2017, 25, 337-344.	0.5	10
21	A new ChainMail approach for real-time soft tissue simulation. Bioengineered, 2016, 7, 246-252.	1.4	20