

# Saikiran Rapaka

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,449  
citations

566801

15  
h-index

610482

24  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1709  
citing authors

#	ARTICLE	IF	CITATIONS
1	A machine-learning approach for computation of fractional flow reserve from coronary computed tomography. <i>Journal of Applied Physiology</i> , 2016, 121, 42-52.	1.2	288
2	Diagnostic Accuracy of a Machine-Learning Approach to Coronary Computed Tomographic Angiography-Based Fractional Flow Reserve. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007217.	1.3	280
3	Coronary CT Angiography-derived Fractional Flow Reserve: Machine Learning Algorithm versus Computational Fluid Dynamics Modeling. <i>Radiology</i> , 2018, 288, 64-72.	3.6	165
4	Flow patterns in the sedimentation of an elliptical particle. <i>Journal of Fluid Mechanics</i> , 2009, 625, 249-272.	1.4	137
5	Non-modal growth of perturbations in density-driven convection in porous media. <i>Journal of Fluid Mechanics</i> , 2008, 609, 285-303.	1.4	104
6	Real-World Variability in the Prediction of Intracranial Aneurysm Wall Shear Stress: The 2015 International Aneurysm CFD Challenge. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 544-564.	0.7	78
7	Onset of convection over a transient base-state in anisotropic and layered porous media. <i>Journal of Fluid Mechanics</i> , 2009, 641, 227-244.	1.4	65
8	Evaluation of a Deep Learning-Based Automated CT Coronary Artery Calcium Scoring Algorithm. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 524-526.	2.3	47
9	Data-driven estimation of cardiac electrical diffusivity from 12-lead ECG signals. <i>Medical Image Analysis</i> , 2014, 18, 1361-1376.	7.0	42
10	Efficient Lattice Boltzmann Solver for Patient-Specific Radiofrequency Ablation of Hepatic Tumors. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1576-1589.	5.4	41
11	Rupture Risk of Small Unruptured Intracranial Aneurysms in Japanese Adults. <i>Stroke</i> , 2020, 51, 641-643.	1.0	33
12	Automatic coronary calcium scoring in chest CT using a deep neural network in direct comparison with non-contrast cardiac CT: A validation study. <i>European Journal of Radiology</i> , 2021, 134, 109428.	1.2	32
13	Machine Learning and Coronary Artery Calcium Scoring. <i>Current Cardiology Reports</i> , 2020, 22, 90.	1.3	26
14	Coronary Centerline Extraction via Optimal Flow Paths and CNN Path Pruning. <i>Lecture Notes in Computer Science</i> , 2016, , 317-325.	1.0	23
15	Deep learning for vessel-specific coronary artery calcium scoring: validation on a multi-centre dataset. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 846-854.	0.5	19
16	Prediction of Patient Management in COVID-19 Using Deep Learning-Based Fully Automated Extraction of Cardiothoracic CT Metrics and Laboratory Findings. <i>Korean Journal of Radiology</i> , 2021, 22, 994.	1.5	14
17	Comprehensive preclinical evaluation of a multi-physics model of liver tumor radiofrequency ablation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1543-1559.	1.7	12
18	Lattice Boltzmann Method for Fast Patient-Specific Simulation of Liver Tumor Ablation from CT Images. <i>Lecture Notes in Computer Science</i> , 2013, 16, 323-330.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Parameter Estimation for Personalization of Liver Tumor Radiofrequency Ablation. Lecture Notes in Computer Science, 2014, , 3-12.	1.0	7
20	An Automated Workflow for Hemodynamic Computations in Cerebral Aneurysms. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-20.	0.7	4
21	From Medical Images to Fast Computational Models of Heart Electromechanics: An Integrated Framework towards Clinical Use. Lecture Notes in Computer Science, 2013, , 249-258.	1.0	4
22	Model-Based Estimation of 4D Relative Pressure Map from 4D Flow MR Images. Lecture Notes in Computer Science, 2014, , 236-243.	1.0	4
23	Verification of a research prototype for hemodynamic analysis of cerebral aneurysms. , 2016, 2016, 2921-2924.		3
24	GPU-accelerated model for fast, three-dimensional fluid-structure interaction computations. , 2015, 2015, 965-8.		2
25	Personalized Pre- and Post-Operative Hemodynamic Assessment of Aortic Coarctation from 3D Rotational Angiography. Cardiovascular Engineering and Technology, 2022, 13, 14-40.	0.7	2
26	Data-driven computational models of heart anatomy, mechanics and hemodynamics: An integrated framework. , 2012, , .		1
27	GPU accelerated, robust method for voxelization of solid objects. , 2016, , .		1
28	Challenges to Validate Multi-Physics Model of Liver Tumor Radiofrequency Ablation from Pre-clinical Data. , 2016, , 27-38.		1
29	Additional clinical applications. , 2020, , 183-210.		1
30	Implementation of a patient-specific cardiac model. , 2020, , 43-94.		1
31	Normalizing Flows for Out-of-Distribution Detection: Application to Coronary Artery Segmentation. Applied Sciences (Switzerland), 2022, 12, 3839.	1.3	1
32	Reply to Liu et al.. Journal of Applied Physiology, 2018, 125, 1353-1353.	1.2	0
33	A Framework for the Pre-clinical Validation of LBM-EP for the Planning and Guidance of Ventricular Tachycardia Ablation. Lecture Notes in Computer Science, 2014, , 253-261.	1.0	0