Kv Nagaraja

List of Publications by Year
in descending order

20 papers	185 citations	1040056 9 h-index	1058476 14 g-index
20 all docs	20 docs citations	20 times ranked	77 citing authors

#	Article	IF	Citations
1	The use of parabolic arcs in matching curved boundaries by point transformations for some higher order triangular elements. Finite Elements in Analysis and Design, 2008, 44, 920-932.	3.2	27
2	Symmetric Gauss Legendre quadrature formulas for composite numerical integration over a triangular surface. Applied Mathematics and Computation, 2007, 188, 865-876.	2.2	23
3	MATLAB 2D higher-order triangle mesh generator with finite element applications using subparametric transformations. Advances in Engineering Software, 2018, 115, 327-356.	3.8	20
4	Generalized Gaussian quadrature rules over two-dimensional regions with linear sides. Applied Mathematics and Computation, 2011, 217, 5612-5621.	2.2	19
5	An efficient automated higher-order finite element computation technique using parabolic arcs for planar and multiply-connected energy problems. Energy, 2019, 183, 996-1011.	8.8	15
6	Application of automated cubic-order mesh generation for efficient energy transfer using parabolic arcs for microwave problems. Energy, 2019, 168, 1104-1118.	8.8	15
7	Accurate higher order automated unstructured triangular meshes for airfoil designs in aerospace applications using parabolic arcs. Aerospace Science and Technology, 2019, 88, 405-420.	4.8	13
8	Gauss Legendreâ€"Gauss Jacobi quadrature rules over a tetrahedral region. Applied Mathematics and Computation, 2007, 190, 186-194.	2.2	12
9	Advantages of cubic arcs for approximating curved boundaries by subparametric transformations for some higher order triangular elements. Applied Mathematics and Computation, 2013, 219, 6893-6910.	2.2	11
10	A General and Effective Numerical Integration Method to Evaluate Triple Integrals Using Generalized Gaussian Quadrature. Procedia Engineering, 2015, 127, 1041-1047.	1.2	7
11	Numerical integration of some functions over an arbitrary linear tetrahedra in Euclidean three-dimensional space. Applied Mathematics and Computation, 2007, 191, 397-409.	2.2	6
12	On the application of two symmetric Gauss Legendre quadrature rules for composite numerical integration over a triangular surface. Applied Mathematics and Computation, 2007, 190, 21-39.	2.2	5
13	Finite Element Solution of Darcyâ€"Brinkman Equation for Irregular Cross-Section Flow Channel Using Curved Triangular Elements. Procedia Engineering, 2015, 127, 301-308.	1.2	2
14	MATLAB automated higher-order tetrahedral mesh generator for CAD geometries and a finite element application with the subparametric mappings. Materials Today: Proceedings, 2021, 42, 330-342.	1.8	2
15	An automated higher order meshing for NACA0018 airfoil design using subparametric transformation. Materials Today: Proceedings, 2021, 46, 4634-4639.	1.8	2
16	Investigation of aerodynamic characteristics of NACA0012 airfoil design using parabolic arcs. Materials Today: Proceedings, 2022, 59, 203-207.	1.8	2
17	Finite element analysis over transmission region of coronavirus in CFD analysis for the respiratory cough droplets. Ain Shams Engineering Journal, 2022, 13, 101766.	6.1	2
18	Numerical Integration over Three-Dimensional Regions Bounded by One or More Circular Edges. Procedia Engineering, 2015, 127, 347-353.	1.2	1

#	Article	IF	Citations
19	Automated Mesh Generation Using Curved Cubic Triangular Elements for a Circular Domain with a Finite Element Implementation. Materials Today: Proceedings, 2018, 5, 25203-25211.	1.8	1
20	Automated high-order curved mesh generator with high-level dynamic programming language julia for photonic applications. Materials Today: Proceedings, 2021, 46, 4553-4558.	1.8	0