Nam Mai-Duy

List of Publications by Year in Descending Order

78 papers	**1,301** citations	**20** h-index	**34** g-index
88 ext. papers	**1,444** ext. citations	**2.9** avg, IF	**4.76** L-index

#	Paper	IF	Citations
78	Computing high-order derivatives in compact integrated-RBF stencils. *Engineering Analysis With Boundary Elements*, **2022**, 135, 369-381	2.6	0
77	New approximations for one-dimensional 3-point and two-dimensional 5-point compact integrated RBF stencils. *Engineering Analysis With Boundary Elements*, **2021**, 125, 12-22	2.6	1
76	Coarse-graining, compressibility, and thermal fluctuation scaling in dissipative particle dynamics employed with pre-determined input parameters. *Physics of Fluids*, **2020**, 32, 053313	4.4	3
75	A microstructure model for viscoelastic thixotropic fluids. *Physics of Fluids*, **2020**, 32, 123106	4.4	2
74	A control volume scheme using compact integrated radial basis function stencils for solving the Richards equation. *Journal of Hydrology*, **2020**, 580, 124240	6	4
73	Investigation of particulate suspensions in generalised hydrodynamic dissipative particle dynamics using a spring model. *Applied Mathematical Modelling*, **2020**, 77, 652-662	4.5	1
72	A symmetric integrated radial basis function method for solving differential equations. *Numerical Methods for Partial Differential Equations*, **2018**, 34, 959-981	2.5	5
71	A time discretization scheme based on integrated radial basis functions for heat transfer and fluid flow problems. *Numerical Heat Transfer, Part B: Fundamentals*, **2018**, 74, 498-518	1.3	4
70	A note on dissipative particle dynamics (DPD) modelling of simple fluids. *Computers and Fluids*, **2018**, 176, 97-108	2.8	8
69	Compact approximation stencils based on integrated flat radial basis functions. *Engineering Analysis With Boundary Elements*, **2017**, 74, 79-87	2.6	6
68	A dissipative particle dynamics model for thixotropic materials exhibiting pseudo-yield stress behaviour. *Journal of Non-Newtonian Fluid Mechanics*, **2017**, 241, 1-13	2.7	12
67	An improved dissipative particle dynamics scheme. *Applied Mathematical Modelling*, **2017**, 46, 602-617	4.5	8
66	A generalised finite difference scheme based on compact integrated radial basis function for flow in heterogeneous soils. *International Journal for Numerical Methods in Fluids*, **2017**, 85, 404-429	1.9	2
65	Imposition of physical parameters in dissipative particle dynamics. *Computer Physics Communications*, **2017**, 221, 290-298	4.2	8
64	Understanding Viscoelasticity. *Graduate Texts in Physics*, **2017**,	0.3	19
63	High-order fluid solver based on a combined compact integrated RBF approximation and its fluid structure interaction applications. *Computers and Fluids*, **2016**, 131, 151-168	2.8	1
62	Strongly overdamped Dissipative Particle Dynamics for fluid-solid systems. *Applied Mathematical Modelling*, **2016**, 40, 6359-6375	4.5	1

61	A numerical study of compact approximations based on flat integrated radial basis functions for second-order differential equations. *Computers and Mathematics With Applications*, **2016**, 72, 2364-2387 [2.7]		2
60	Higher-order approximation of contaminant transport equation for turbulent channel flows based on centre manifolds and its numerical solution. *Journal of Hydrology*, **2015**, 525, 87-101	6	8
59	Incompressible smoothed particle hydrodynamics-moving IRBFN method for viscous flow problems. *Engineering Analysis With Boundary Elements*, **2015**, 59, 172-186	2.6	6
58	Investigation of particles size effects in Dissipative Particle Dynamics (DPD) modelling of colloidal suspensions. *Computer Physics Communications*, **2015**, 189, 37-46	4.2	16
57	A spring model for suspended particles in dissipative particle dynamics. *Journal of Rheology*, **2014**, 58, 839-867	4.1	20
56	Exponential-time differencing schemes for low-mass DPD systems. *Computer Physics Communications*, **2014**, 185, 229-235	4.2	6
55	A Fully Coupled Scheme for Viscous Flows in Regular and Irregular Domains Using Compact Integrated RBF Approximation. *Applied Mechanics and Materials*, **2014**, 553, 138-143	0.3	1
54	Modelling dispersion in laminar and turbulent flows in an open channel based on centre manifolds using 1D-IRBFN method. *Applied Mathematical Modelling*, **2014**, 38, 3672-3691	4.5	4
53	A compact 9 point stencil based on integrated RBFs for the convection‑diffusion equation. *Applied Mathematical Modelling*, **2014**, 38, 1495-1510	4.5	6
52	A numerical study of strongly overdamped Dissipative Particle Dynamics (DPD) systems. *Journal of Computational Physics*, **2013**, 245, 150-159	4.1	6
51	Dissipative particle dynamics modeling of low Reynolds number incompressible flows. *Journal of Rheology*, **2013**, 57, 585-604	4.1	23
50	Numerical investigations on the compressibility of a DPD fluid. *Journal of Computational Physics*, **2013**, 242, 196-210	4.1	30
49	ADI method based on C2-continuous two-node integrated-RBF elements for viscous flows. *Applied Mathematical Modelling*, **2013**, 37, 5184-5203	4.5	2
48	A compact five-point stencil based on integrated RBFs for 2D second-order differential problems. *Journal of Computational Physics*, **2013**, 235, 302-321	4.1	20
47	A numerical scheme based on compact integrated-RBFs and Adams‑Bashforth/Crank‑Nicolson algorithms for diffusion and unsteady fluid flow problems. *Engineering Analysis With Boundary Elements*, **2013**, 37, 1653-1667	2.6	6
46	Local moving least square-one-dimensional integrated radial basis function networks technique for incompressible viscous flows. *International Journal for Numerical Methods in Fluids*, **2012**, 70, 1443-1474 [1.9]		7
45	Simulation of viscous and viscoelastic flows using a RBF-Galerkin approach. *Australian Journal of Mechanical Engineering*, **2012**, 9, 101-112	1	2
44	A stable and accurate control-volume technique based on integrated radial basis function networks for fluid-flow problems. *Australian Journal of Mechanical Engineering*, **2011**, 8, 151-158	1	

43	Compact local integrated-RBF approximations for second-order elliptic differential problems. *Journal of Computational Physics*, **2011**, 230, 4772-4794	4.1	23
42	Buckling and vibration analysis of laminated composite plate/shell structures via a smoothed quadrilateral flat shell element with in-plane rotations. *Computers and Structures*, **2011**, 89, 612-625	4.5	55
41	A high-order upwind control-volume method based on integrated RBFs for fluid-flow problems. *International Journal for Numerical Methods in Fluids*, **2011**, 67, 1973-1992	1.9	2
40	Numerical study of stream-function formulation governing flows in multiply-connected domains by integrated RBFs and Cartesian grids. *Computers and Fluids*, **2011**, 44, 32-42	2.8	5
39	Free vibration analysis of laminated composite plates based on FSDT using one-dimensional IRBFN method. *Computers and Structures*, **2011**, 89, 1-13	4.5	53
38	An upwind control-volume method based on integrated RBFs for fluid-flow problems. *IOP Conference Series: Materials Science and Engineering*, **2010**, 10, 012023	0.4	
37	Integrated-RBF network method for free vibration analysis of laminated composite plates. *IOP Conference Series: Materials Science and Engineering*, **2010**, 10, 012236	0.4	
36	A Cartesian-grid integrated-RBF method for viscoelastic flows. *IOP Conference Series: Materials Science and Engineering*, **2010**, 10, 012210	0.4	1
35	A new integrated-rbf-based domain-embedding scheme for solving fluid-flow problems. *IOP Conference Series: Materials Science and Engineering*, **2010**, 10, 012021	0.4	
34	Dynamic simulation of non-spherical particulate suspensions. *Rheologica Acta*, **2010**, 49, 597-606	2.3	2
33	A numerical study of 2D integrated RBFNs incorporating Cartesian grids for solving 2D elliptic differential problems. *Numerical Methods for Partial Differential Equations*, **2010**, 26, 1443-1462	2.5	3
32	Integrated radial-basis-function networks for computing Newtonian and non-Newtonian fluid flows. *Computers and Structures*, **2009**, 87, 642-650	4.5	7
31	An integrated-RBF technique based on Galerkin formulation for elliptic differential equations. *Engineering Analysis With Boundary Elements*, **2009**, 33, 191-199	2.6	25
30	A spectral collocation technique based on integrated Chebyshev polynomials for biharmonic problems in irregular domains. *Applied Mathematical Modelling*, **2009**, 33, 284-299	4.5	16
29	A Galerkin approach incorporating integrated radial basis function networks for the solution of 2D biharmonic equations. *International Journal of Computer Mathematics*, **2009**, 86, 1746-1759	1.2	5
28	An Effective Integrated-RBFN Cartesian-Grid Discretization for the Stream Function‒Vorticity‒Temperature Formulation in Nonrectangular Domains. *Numerical Heat Transfer, Part B: Fundamentals*, **2009**, 55, 480-502	1.3	14
27	A Meshless Technique Based on Integrated Radial Basis Function Networks for Elliptic Partial Differential Equations. *Lecture Notes in Computational Science and Engineering*, **2008**, 141-155	0.3	
26	A multidomain integrated-radial-basis-function collocation method for elliptic problems. *Numerical Methods for Partial Differential Equations*, **2008**, 24, 1301-1320	2.5	14

25	A Cartesian grid technique based on one-dimensional integrated radial basis function networks for natural convection in concentric annuli. *International Journal for Numerical Methods in Fluids*, **2008**, 57, 1709-1730	1.9	8
24	Free vibration analysis of laminated plate/shell structures based on FSDT with a stabilized nodal-integrated quadrilateral element. *Journal of Sound and Vibration*, **2008**, 313, 205-223	3.9	45
23	A second-order continuity domain decomposition technique based on integrated Chebyshev polynomials for two-dimensional elliptic problems. *Applied Mathematical Modelling*, **2008**, 32, 2851-2862	4.5	6
22	A Cartesian-grid collocation method based on radial-basis-function networks for solving PDEs in irregular domains. *Numerical Methods for Partial Differential Equations*, **2007**, 23, 1192-1210	2.5	20
21	An integral-collocation-based fictitious-domain technique for solving elliptic problems. *Communications in Numerical Methods in Engineering*, **2007**, 24, 1291-1314		2
20	An efficient domain-decomposition pseudo-spectral method for solving elliptic differential equations. *Communications in Numerical Methods in Engineering*, **2007**, 24, 795-806		7
19	A spectral collocation method based on integrated Chebyshev polynomials for two-dimensional biharmonic boundary-value problems. *Journal of Computational and Applied Mathematics*, **2007**, 201, 30-47	2.4	45
18	A collocation method based on one-dimensional RBF interpolation scheme for solving PDEs. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2007**, 17, 165-186	4.5	32
17	Solving biharmonic problems with scattered-point discretization using indirect radial-basis-function networks. *Engineering Analysis With Boundary Elements*, **2006**, 30, 77-87	2.6	23
16	A domain-type boundary-integral-equation method for two-dimensional biharmonic Dirichlet problem. *Engineering Analysis With Boundary Elements*, **2006**, 30, 809-817	2.6	6
15	An effective high order interpolation scheme in BIEM for biharmonic boundary value problems. *Engineering Analysis With Boundary Elements*, **2005**, 29, 210-223	2.6	11
14	Solving high order ordinary differential equations with radial basis function networks. *International Journal for Numerical Methods in Engineering*, **2005**, 62, 824-852	2.4	56
13	Solving high-order partial differential equations with indirect radial basis function networks. *International Journal for Numerical Methods in Engineering*, **2005**, 63, 1636-1654	2.4	20
12	An efficient indirect RBFN-based method for numerical solution of PDEs. *Numerical Methods for Partial Differential Equations*, **2005**, 21, 770-790	2.5	24
11	Computing non-Newtonian fluid flow with radial basis function networks. *International Journal for Numerical Methods in Fluids*, **2005**, 48, 1309-1336	1.9	13
10	An effective spectral collocation method for the direct solution of high-order ODEs. *Communications in Numerical Methods in Engineering*, **2005**, 22, 627-642		29
9	An effective RBFN-boundary integral approach for the analysis of natural convection flow. *International Journal for Numerical Methods in Fluids*, **2004**, 46, 545-568	1.9	1
8	RBF interpolation of boundary values in the BEM for heat transfer problems. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2003**, 13, 611-632	4.5	4

7	Neural networks for BEM analysis of steady viscous flows. *International Journal for Numerical Methods in Fluids*, **2003**, 41, 743-763	1.9	2
6	Approximation of function and its derivatives using radial basis function networks. *Applied Mathematical Modelling*, **2003**, 27, 197-220	4.5	150
5	Mesh-free radial basis function network methods with domain decomposition for approximation of functions and numerical solution of Poisson's equations. *Engineering Analysis With Boundary Elements*, **2002**, 26, 133-156	2.6	39
4	BEM-RBF approach for viscoelastic flow analysis. *Engineering Analysis With Boundary Elements*, **2002**, 26, 757-762	2.6	2
3	Numerical solution of differential equations using multiquadric radial basis functions networks. *Neural Networks*, **2001**, 14, 185-99	9.1	211
2	Numerical solution of Navier-Stokes equations using multiquadric radial basis function networks. *International Journal for Numerical Methods in Fluids*, **2001**, 37, 65-86	1.9	60
1	A fast convergent iterative boundary element method on PVM cluster. *Engineering Analysis With Boundary Elements*, **1998**, 22, 307-316	2.6	10