Mehdi Dehghan

List of Publications by Year in Descending Order

667 papers	21,908 citations	73 h-index	108 g-index
688 ext. papers	24,190 ext. citations	2.8 avg, IF	8.03 L-index

#	Paper	IF	Citations
667	Optimal convergence analysis of the energy-preserving immersed weak Galerkin method for second-order hyperbolic interface problems in inhomogeneous media. *Computers and Mathematics With Applications*, **2022**, 105, 150-171	2.7	1
666	A fast computational algorithm for computing outer pseudo-inverses with numerical experiments. *Journal of Computational and Applied Mathematics*, **2022**, 408, 114128	2.4	1
665	Simulation of plane elastostatic equations of anisotropic functionally graded materials by integrated radial basis function based on finite difference approach. *Engineering Analysis With Boundary Elements*, **2022**, 134, 553-570	2.6	2
664	An asymptotic analysis and numerical simulation of a prostate tumor growth model via the generalized moving least squares approximation combined with semi-implicit time integration. *Applied Mathematical Modelling*, **2022**, 104, 826-849	4.5	0
663	An analysis of weak Galerkin finite element method for a steady state Boussinesq problem. *Journal of Computational and Applied Mathematics*, **2022**, 406, 114029	2.4	
662	Double parameter splitting (DPS) iteration method for solving complex symmetric linear systems. *Applied Numerical Mathematics*, **2022**, 171, 176-192	2.5	1
661	Approximating optimal parameters for generalized preconditioned Hermitian and skew-Hermitian splitting (GPHSS) method. *Computational and Applied Mathematics*, **2022**, 41, 1	2.4	
660	Closed-form solution of non-symmetric algebraic Riccati matrix equation. *Applied Mathematics Letters*, **2022**, 131, 108040	3.5	1
659	Single step iterative method for linear system of equations with complex symmetric positive semi-definite coefficient matrices. *Applied Mathematics and Computation*, **2022**, 426, 127111	2.7	0
658	On the CRI method for solving Sylvester equation with complex symmetric positive semi-definite coefficient matrices. *Filomat*, **2021**, 35, 3071-3090	0.7	
657	Interpolating Stabilized Element Free Galerkin Method for Neutral Delay Fractional Damped Diffusion-Wave Equation. *Journal of Function Spaces*, **2021**, 2021, 1-11	0.8	1
656	A new approximation algorithm for solving generalized Lyapunov matrix equations. *Journal of Computational and Applied Mathematics*, **2021**, 404, 113898	2.4	2
655	The proper orthogonal decomposition modal spectral element method for two-dimensional viscoelastic equation. *Thin-Walled Structures*, **2021**, 161, 107429	4.7	2
654	Investigation of generalized Couette hydromagnetic flow of two-step exothermic chemical reaction in a channel via the direct meshless local Petrov□Galerkin method. *Engineering Analysis With Boundary Elements*, **2021**, 125, 178-189	2.6	2
653	A divergence-free generalized moving least squares approximation with its application. *Applied Numerical Mathematics*, **2021**, 162, 374-404	2.5	3
652	Convergence analysis of weak Galerkin flux-based mixed finite element method for solving singularly perturbed convection-diffusion-reaction problem. *Applied Numerical Mathematics*, **2021**, 163, 303-316	2.5	10
651	A trustable shape parameter in the kernel-based collocation method with application to pricing financial options. *Engineering Analysis With Boundary Elements*, **2021**, 126, 108-117	2.6	2

650	Numerical analysis of locally conservative weak Galerkin dual-mixed finite element method for the time-dependent Poisson–Nernst–Planck system. *Computers and Mathematics With Applications*, **2021**, 92, 88-108	2.7	3
649	Local Gaussian-Collocation Scheme to Approximate the Solution of Nonlinear Fractional Differential Equations Using Volterra Integral Equations. *Journal of Computational Mathematics*, **2021**, 39, 261-282	2.1	2
648	Generalized regularized least-squares approximation of noisy data with application to stochastic PDEs. *Applied Mathematics Letters*, **2021**, 111, 106598	3.5	1
647	Numerical investigation of reproducing kernel particle Galerkin method for solving fractional modified distributed-order anomalous sub-diffusion equation with error estimation. *Applied Mathematics and Computation*, **2021**, 392, 125718	2.7	3
646	The boundary knot method for the solution of two-dimensional advection reaction-diffusion and Brusselator equations. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 106-133	4.5	1
645	Numerical and theoretical discussions for solving nonlinear generalized Benjamin–Bona–Mahony–Burgers equation based on the Legendre spectral element method. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 360-382	2.5	9
644	A reduced-order variational multiscale interpolating element free Galerkin technique based on proper orthogonal decomposition for solving Navier–Stokes equations coupled with a heat transfer equation: Nonstationary incompressible Boussinesq equations. *Journal of Computational Physics*, **2021**, 426, 109875	4.1	11
643	A boundary-only integral equation method for parabolic problems of another class of anisotropic functionally graded materials. *Materials Today Communications*, **2021**, 26, 101956	2.5	1
642	Numerical simulation of a prostate tumor growth model by the RBF-FD scheme and a semi-implicit time discretization. *Journal of Computational and Applied Mathematics*, **2021**, 388, 113314	2.4	5
641	Local discontinuous Galerkin method for distributed-order time-fractional diffusion-wave equation: Application of Laplace transform. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 4923-4937	2.3	3
640	Numerical and analytical investigations for solving the inverse tempered fractional diffusion equation via interpolating element-free Galerkin (IEFG) method. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1917-1933	4.1	5
639	RBF-ENO / WENO schemes with Lax–Wendroff type time discretizations for Hamilton–Jacobi equations. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 594-613	2.5	1
638	Optimal uniform error estimates for moving least-squares collocation with application to option pricing under jump-diffusion processes. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 98-117	2.5	3
637	Solving complex Sylvester matrix equation by accelerated double-step scale splitting (ADSS) method. *Engineering With Computers*, **2021**, 37, 489-508	4.5	15
636	Meshless upwind local radial basis function-finite difference technique to simulate the time-fractional distributed-order advection–diffusion equation. *Engineering With Computers*, **2021**, 37, 873-889	4.5	20
635	The numerical solution of nonlinear generalized Benjamin–Bona–Mahony–Burgers and regularized long-wave equations via the meshless method of integrated radial basis functions. *Engineering With Computers*, **2021**, 37, 93-122	4.5	3
634	Local radial basis function-finite-difference method to simulate some models in the nonlinear wave phenomena: regularized long-wave and extended Fisher–Kolmogorov equations. *Engineering With Computers*, **2021**, 37, 1159-1179	4.5	13
633	The Crank-Nicolson/interpolating stabilized element-free Galerkin method to investigate the fractional Galilei invariant advection-diffusion equation. *Mathematical Methods in the Applied Sciences*, **2021**, 44, 2752-2768	2.3	3

632	Numerical investigation on the transport equation in spherical coordinates via generalized moving least squares and moving kriging least squares approximations. *Engineering With Computers*, **2021**, 37, 1231-1249	4.5	10
631	Simulation of activator–inhibitor dynamics based on cross-diffusion Brusselator reaction–diffusion system via a differential quadrature-radial point interpolation method (DQ-RPIM) technique. *European Physical Journal Plus*, **2021**, 136, 1	3.1	0
630	Virtual Element Method for Solving an Inhomogeneous Brusselator Model With and Without Cross-Diffusion in Pattern Formation. *Journal of Scientific Computing*, **2021**, 89, 1	2.3	1
629	Numerical simulation of shallow water waves based on generalized equal width (GEW) equation by compact local integrated radial basis function method combined with adaptive residual subsampling technique. *Nonlinear Dynamics*, **2021**, 105, 3359-3391	5	1
628	The meshless local Petrov–Galerkin method based on moving Taylor polynomial approximation to investigate unsteady diffusion–convection problems of anisotropic functionally graded materials related to incompressible flow. *Engineering Analysis With Boundary Elements*, **2021**, 132, 469-480	2.6	2
627	A Galerkin meshless reproducing kernel particle method for numerical solution of neutral delay time-space distributed-order fractional damped diffusion-wave equation. *Applied Numerical Mathematics*, **2021**, 169, 44-63	2.5	4
626	On the Hermitian and skew-Hermitian splitting-like iteration approach for solving complex continuous-time algebraic Riccati matrix equation. *Applied Numerical Mathematics*, **2021**, 170, 109-127	2.5	3
625	The local meshless collocation method for numerical simulation of shallow water waves based on generalized equal width (GEW) equation. *Wave Motion*, **2021**, 107, 102805	1.8	1
624	Numerical analysis of fully discrete energy stable weak Galerkin finite element Scheme for a coupled Cahn-Hilliard-Navier-Stokes phase-field model. *Applied Mathematics and Computation*, **2021**, 410, 126487	2.7	1
623	A local meshless procedure to determine the unknown control parameter in the multi-dimensional inverse problems. *Inverse Problems in Science and Engineering*, **2020**, 1-32	1.3	0
622	Generalized moving least squares approximation for the solution of local and non-local models of cancer cell invasion of tissue under the effect of adhesion in one- and two-dimensional spaces. *Computers in Biology and Medicine*, **2020**, 124, 103803	7	9
621	Reduced order modeling of time-dependent incompressible Navier–Stokes equation with variable density based on a local radial basis functions-finite difference (LRBF-FD) technique and the POD/DEIM method. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 364, 112914	5.7	11
620	Interior penalty discontinuous Galerkin technique for solving generalized Sobolev equation. *Applied Numerical Mathematics*, **2020**, 154, 172-186	2.5	8
619	Radial basis function-generated finite difference scheme for simulating the brain cancer growth model under radiotherapy in various types of computational domains. *Computer Methods and Programs in Biomedicine*, **2020**, 195, 105641	6.9	4
618	Direct meshless local Petrov-Galerkin method to investigate anisotropic potential and plane elastostatic equations of anisotropic functionally graded materials problems. *Engineering Analysis With Boundary Elements*, **2020**, 118, 188-201	2.6	8
617	Three-step iterative methods for numerical solution of systems of nonlinear equations. *Engineering With Computers*, **2020**, 1	4.5	0
616	Integrated radial basis functions (IRBFs) to simulate nonlinear advection–diffusion equations with smooth and non-smooth initial data. *Engineering With Computers*, **2020**, 1	4.5	4
615	A meshless technique based on generalized moving least squares combined with the second-order semi-implicit backward differential formula for numerically solving time-dependent phase field models on the spheres. *Applied Numerical Mathematics*, **2020**, 153, 248-275	2.5	6

614	A finite-difference procedure to solve weakly singular integro partial differential equation with space-time fractional derivatives. *Engineering With Computers*, **2020**, 37, 2173	4.5	8
613	An upwind local radial basis functions-differential quadrature (RBFs-DQ) technique to simulate some models arising in water sciences. *Ocean Engineering*, **2020**, 197, 106844	3.9	24
612	Crank–Nicolson/Galerkin spectral method for solving two-dimensional time-space distributed-order weakly singular integro-partial differential equation. *Journal of Computational and Applied Mathematics*, **2020**, 374, 112739	2.4	19
611	HSS-like method for solving complex nonlinear Yang–Baxter matrix equation. *Engineering With Computers*, **2020**, 37, 2345	4.5	8
610	On the pricing of multi-asset options under jump-diffusion processes using meshfree moving least-squares approximation. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 84, 105160	3.7	5
609	Application of spectral element method for solving Sobolev equations with error estimation. *Applied Numerical Mathematics*, **2020**, 158, 439-462	2.5	6
608	Compact local integrated radial basis functions (Integrated RBF) method for solving system of non-linear advection-diffusion-reaction equations to prevent the groundwater contamination. *Engineering Analysis With Boundary Elements*, **2020**, 121, 50-64	2.6	6
607	The stability study of numerical solution of Fredholm integral equations of the first kind with emphasis on its application in boundary elements method. *Applied Numerical Mathematics*, **2020**, 158, 134-151	2.5	2
606	A POD reduced-order model based on spectral Galerkin method for solving the space-fractional Gray–Scott model with error estimate. *Engineering With Computers*, **2020**, 1	4.5	4
605	Matrix multisplitting Picard-iterative method for solving generalized absolute value matrix equation. *Applied Numerical Mathematics*, **2020**, 158, 425-438	2.5	7
604	Two lopsided TSCSP (LTSCSP) iteration methods for solution of complex symmetric positive definite linear systems. *Engineering With Computers*, **2020**, 1	4.5	3
603	Simulation flows with multiple phases and components via the radial basis functions-finite difference (RBF-FD) procedure: Shan-Chen model. *Engineering Analysis With Boundary Elements*, **2020**, 119, 151-161	2.6	11
602	A POD-based reduced-order Crank-Nicolson/fourth-order alternating direction implicit (ADI) finite difference scheme for solving the two-dimensional distributed-order Riesz space-fractional diffusion equation. *Applied Numerical Mathematics*, **2020**, 158, 271-291	2.5	12
601	The fourth-order time-discrete scheme and split-step direct meshless finite volume method for solving cubic–quintic complex Ginzburg–Landau equations on complicated geometries. *Engineering With Computers*, **2020**, 1	4.5	5
600	Meshless local numerical procedure based on interpolating moving least squares approximation and exponential time differencing fourth-order Runge–Kutta (ETDRK4) for solving stochastic parabolic interface problems. *Engineering With Computers*, **2020**, 1	4.5	3
599	Fourth-order alternating direction implicit difference scheme to simulate the space-time Riesz tempered fractional diffusion equation. *International Journal of Computer Mathematics*, **2020**, 1-24	1.2	1
598	Legendre spectral element method (LSEM) to simulate the two-dimensional system of nonlinear stochastic advection–reaction–diffusion models. *Applicable Analysis*, **2020**, 1-16	0.8	1
597	The element-free Galerkin method based on moving least squares and moving Kriging approximations for solving two-dimensional tumor-induced angiogenesis model. *Engineering With Computers*, **2020**, 36, 1517-1537	4.5	14

596	Accelerated double-step scale splitting iteration method for solving a class of complex symmetric linear systems. *Numerical Algorithms*, **2020**, 83, 281-304	2.1	10
595	Direct meshless local Petrov–Galerkin (DMLPG) method for time-fractional fourth-order reaction–diffusion problem on complex domains. *Computers and Mathematics With Applications*, **2020**, 79, 876-888	2.7	27
594	Analysis and application of the interpolating element free Galerkin (IEFG) method to simulate the prevention of groundwater contamination with application in fluid flow. *Journal of Computational and Applied Mathematics*, **2020**, 368, 112453	2.4	15
593	Analysis of the stabilized element free Galerkin approximations to the Stokes equations. *Applied Numerical Mathematics*, **2020**, 150, 325-340	2.5	
592	Investigation of the Oldroyd model as a generalized incompressible Navier–Stokes equation via the interpolating stabilized element free Galerkin technique. *Applied Numerical Mathematics*, **2020**, 150, 274-294	2.5	25
591	A proper orthogonal decomposition variational multiscale meshless interpolating element-free Galerkin method for incompressible magnetohydrodynamics flow. *International Journal for Numerical Methods in Fluids*, **2020**, 92, 1415-1436	1.9	4
590	Error analysis of interpolating element free Galerkin method to solve non-linear extended Fisher–Kolmogorov equation. *Computers and Mathematics With Applications*, **2020**, 80, 247-262	2.7	14
589	On the numerical solution of nonlinear integral equations on non-rectangular domains utilizing thin plate spline collocation method. *Proceedings of the Indian Academy of Sciences: Mathematical Sciences*, **2019**, 129, 1	0.4	
588	A meshless local discrete Galerkin (MLDG) scheme for numerically solving two-dimensional nonlinear Volterra integral equations. *Applied Mathematics and Computation*, **2019**, 350, 249-265	2.7	17
587	The reproducing kernel particle Petrov–Galerkin method for solving two-dimensional nonstationary incompressible Boussinesq equations. *Engineering Analysis With Boundary Elements*, **2019**, 106, 300-308	2.6	29
586	Numerical and analytical investigations for neutral delay fractional damped diffusion-wave equation based on the stabilized interpolating element free Galerkin (IEFG) method. *Applied Numerical Mathematics*, **2019**, 145, 488-506	2.5	25
585	A meshless local Galerkin method for solving Volterra integral equations deduced from nonlinear fractional differential equations using the moving least squares technique. *Applied Numerical Mathematics*, **2019**, 143, 276-299	2.5	17
584	The interpolating element-free Galerkin method for solving Korteweg–de Vries–Rosenau-regularized long-wave equation with error analysis. *Nonlinear Dynamics*, **2019**, 96, 1345-1365	5	16
583	Analysis of mixed finite element method (MFEM) for solving the generalized fractional reaction–diffusion equation on nonrectangular domains. *Computers and Mathematics With Applications*, **2019**, 78, 1531-1547	2.7	15
582	The solution of nonlinear Green–Naghdi equation arising in water sciences via a meshless method which combines moving kriging interpolation shape functions with the weighted essentially non-oscillatory method. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 68, 220-239	3.7	13
581	On the numerical solution of Fredholm integral equations utilizing the local radial basis function method. *International Journal of Computer Mathematics*, **2019**, 96, 1416-1443	1.2	11
580	The double-step scale splitting method for solving complex Sylvester matrix equation. *Computational and Applied Mathematics*, **2019**, 38, 1	2.4	11
579	Alternating direction implicit-spectral element method (ADI-SEM) for solving multi-dimensional generalized modified anomalous sub-diffusion equation. *Computers and Mathematics With Applications*, **2019**, 78, 1772-1792	2.7	16

578	Two-dimensional simulation of the damped Kuramoto–Sivashinsky equation via radial basis function-generated finite difference scheme combined with an exponential time discretization. *Engineering Analysis With Boundary Elements*, **2019**, 107, 168-184	2.6	13
577	On the Numerical Solution of Logarithmic Boundary Integral Equations Arising in Laplace's Equations Based on the Meshless Local Discrete Collocation Method. *Advances in Applied Mathematics and Mechanics*, **2019**, 11, 807-837	2.1	3
576	A multilevel Monte Carlo finite element method for the stochastic Cahn-Hilliard-Cook equation. *Computational Mechanics*, **2019**, 64, 937-949	4	17
575	Galerkin proper orthogonal decomposition-reduced order method (POD-ROM) for solving generalized Swift-Hohenberg equation. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 29, 2642-2665	4.5	6
574	A reduced order finite difference method for solving space-fractional reaction-diffusion systems: The Gray-Scott model. *European Physical Journal Plus*, **2019**, 134, 1	3.1	8
573	The simulation of some chemotactic bacteria patterns in liquid medium which arises in tumor growth with blow-up phenomena via a generalized smoothed particle hydrodynamics (GSPH) method. *Engineering With Computers*, **2019**, 35, 875-892	4.5	6
572	A direct meshless local collocation method for solving stochastic Cahn–Hilliard–Cook and stochastic Swift–Hohenberg equations. *Engineering Analysis With Boundary Elements*, **2019**, 98, 253-264	2.6	37
571	Error estimate of finite element/finite difference technique for solution of two-dimensional weakly singular integro-partial differential equation with space and time fractional derivatives. *Journal of Computational and Applied Mathematics*, **2019**, 356, 314-328	2.4	21
570	A generalized modified Hermitian and skew-Hermitian splitting (GMHSS) method for solving complex Sylvester matrix equation. *Applied Mathematics and Computation*, **2019**, 348, 632-651	2.7	29
569	Error analysis and numerical simulation of magnetohydrodynamics (MHD) equation based on the interpolating element free Galerkin (IEFG) method. *Applied Numerical Mathematics*, **2019**, 137, 252-273	2.5	30
568	Numerical Simulation and Error Estimation of the Time-Dependent Allen–Cahn Equation on Surfaces with Radial Basis Functions. *Journal of Scientific Computing*, **2019**, 79, 493-516	2.3	11
567	DMLPG method for numerical simulation of soliton collisions in multi-dimensional coupled damped nonlinear Schrödinger system which arises from Bose–Einstein condensates. *Applied Mathematics and Computation*, **2019**, 346, 244-253	2.7	7
566	Simulation of the phase field Cahn–Hilliard and tumor growth models via a numerical scheme: Element-free Galerkin method. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 345, 919-950	5.7	28
565	Semi-analytical solution for time-fractional diffusion equation based on finite difference method of lines (MOL). *Engineering With Computers*, **2019**, 35, 229-241	4.5	12
564	Application of dual-Chebyshev wavelets for the numerical solution of boundary integral equations with logarithmic singular kernels. *Engineering With Computers*, **2019**, 35, 175-190	4.5	11
563	Numerical solution of a time-fractional PDE in the electroanalytical chemistry by a local meshless method. *Engineering With Computers*, **2019**, 35, 87-100	4.5	17
562	Application of thin plate splines for solving a class of boundary integral equations arisen from Laplace's equations with nonlinear boundary conditions. *International Journal of Computer Mathematics*, **2019**, 96, 170-198	1.2	8
561	A finite difference/finite element technique with error estimate for space fractional tempered diffusion-wave equation. *Computers and Mathematics With Applications*, **2018**, 75, 2903-2914	2.7	48

560	A Local Galerkin Integral Equation Method for Solving Integro-differential Equations Arising in Oscillating Magnetic Fields. *Mediterranean Journal of Mathematics*, **2018**, 15, 1	0.9	2
559	A Legendre spectral element method (SEM) based on the modified bases for solving neutral delay distributed-order fractional damped diffusion-wave equation. *Mathematical Methods in the Applied Sciences*, **2018**, 41, 3476-3494	2.3	49
558	An element-free Galerkin meshless method for simulating the behavior of cancer cell invasion of surrounding tissue. *Applied Mathematical Modelling*, **2018**, 59, 500-513	4.5	22
557	Modal spectral element method in curvilinear domains. *Applied Numerical Mathematics*, **2018**, 128, 157-182	2.5	3
556	The approximate solution of nonlinear Volterra integral equations of the second kind using radial basis functions. *Applied Numerical Mathematics*, **2018**, 131, 140-157	2.5	11
555	An efficient technique based on finite difference/finite element method for solution of two-dimensional space/multi-time fractional Bloch□Torrey equations. *Applied Numerical Mathematics*, **2018**, 131, 190-206	2.5	51
554	The space-splitting idea combined with local radial basis function meshless approach to simulate conservation laws equations. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 1137-1156	6.1	29
553	A new approach to improve the order of approximation of the Bernstein operators: theory and applications. *Numerical Algorithms*, **2018**, 77, 111-150	2.1	16
552	The two-grid interpolating element free Galerkin (TG-IEFG) method for solving Rosenau-regularized long wave (RRLW) equation with error analysis. *Applicable Analysis*, **2018**, 97, 1129-1153	0.8	15
551	Error analysis of a meshless weak form method based on radial point interpolation technique for Sivashinsky equation arising in the alloy solidification problem. *Journal of Computational and Applied Mathematics*, **2018**, 327, 314-324	2.4	11
550	Direct local boundary integral equation method for numerical solution of extended Fisher□Kolmogorov equation. *Engineering With Computers*, **2018**, 34, 203-213	4.5	21
549	On a new family of radial basis functions: Mathematical analysis and applications to option pricing. *Journal of Computational and Applied Mathematics*, **2018**, 328, 75-100	2.4	10
548	An upwind local radial basis functions-differential quadrature (RBF-DQ) method with proper orthogonal decomposition (POD) approach for solving compressible Euler equation. *Engineering Analysis With Boundary Elements*, **2018**, 92, 244-256	2.6	31
547	A stable boundary elements method for magnetohydrodynamic channel flows at high Hartmann numbers. *Numerical Methods for Partial Differential Equations*, **2018**, 34, 575-601	2.5	6
546	Application of finite difference method of lines on the heat equation. *Numerical Methods for Partial Differential Equations*, **2018**, 34, 626-660	2.5	7
545	Fully spectral collocation method for nonlinear parabolic partial integro-differential equations. *Applied Numerical Mathematics*, **2018**, 123, 99-120	2.5	11
544	Interpolating stabilized moving least squares (MLS) approximation for 2D elliptic interface problems. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 328, 775-803	5.7	26
543	Solving a class of nonlinear boundary integral equations based on the meshless local discrete Galerkin (MLDG) method. *Applied Numerical Mathematics*, **2018**, 123, 137-158	2.5	27

542	A hk mortar spectral element method for the p-Laplacian equation. *Computers and Mathematics With Applications*, **2018**, 76, 1803-1826	2.7	5
541	A Meshless Discrete Galerkin Method Based on the Free Shape Parameter Radial Basis Functions for Solving Hammerstein Integral Equation. *Numerical Mathematics*, **2018**, 11, 540-568	1.5	5
540	A meshless Galerkin scheme for the approximate solution of nonlinear logarithmic boundary integral equations utilizing radial basis functions. *Journal of Computational and Applied Mathematics*, **2018**, 333, 362-381	2.4	21
539	Solution of multi-dimensional KleinGordonZakharov and SchrdingerGrossPitaevskii equations via local Radial Basis FunctionsDifferential Quadrature (RBFDQ) technique on non-rectangular computational domains. *Engineering Analysis With Boundary Elements*, **2018**, 92, 156-170	2.6	24
538	A reduced proper orthogonal decomposition (POD) element free Galerkin (POD-EFG) method to simulate two-dimensional solute transport problems and error estimate. *Applied Numerical Mathematics*, **2018**, 126, 92-112	2.5	17
537	Variational multiscale element-free Galerkin method combined with the moving Kriging interpolation for solving some partial differential equations with discontinuous solutions. *Computational and Applied Mathematics*, **2018**, 37, 3869-3905		18
536	A combination of proper orthogonal decompositiondiscrete empirical interpolation method (PODDEIM) and meshless local RBF-DQ approach for prevention of groundwater contamination. *Computers and Mathematics With Applications*, **2018**, 75, 1390-1412	2.7	28
535	A wavelet-based adaptive mesh refinement method for the obstacle problem. *Engineering With Computers*, **2018**, 34, 577-589	4.5	2
534	A meshless local discrete collocation (MLDC) scheme for solving 2-dimensional singular integral equations with logarithmic kernels. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2018**, 31, e2311	1	5
533	Application of the dual reciprocity boundary integral equation approach to solve fourth-order time-fractional partial differential equations. *International Journal of Computer Mathematics*, **2018**, 95, 2066-2081	1.2	5
532	Approximation of continuous surface differential operators with the generalized moving least-squares (GMLS) method for solving reactiondiffusion equation. *Computational and Applied Mathematics*, **2018**, 37, 6955-6971		10
531	An adaptive space-time shock capturing method with high order wavelet bases for the system of shallow water equations. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2018**, 28, 2842-2861	4.5	2
530	Numerical solution of 2D NavierStokes equation discretized via boundary elements method and finite difference approximation. *Engineering Analysis With Boundary Elements*, **2018**, 96, 64-77	2.6	15
529	Generalized product-type methods based on bi-conjugate gradient (GPBiCG) for solving shifted linear systems. *Computational and Applied Mathematics*, **2017**, 36, 1591-1606		17
528	Application of direct meshless local PetrovGalerkin (DMLPG) method for some Turing-type models. *Engineering With Computers*, **2017**, 33, 107-124	4.5	25
527	Two meshless procedures: moving Kriging interpolation and element-free Galerkin for fractional PDEs. *Applicable Analysis*, **2017**, 96, 936-969	0.8	17
526	Asymptotic expansion of solutions to the BlackScholes equation arising from American option pricing near the expiry. *Journal of Computational and Applied Mathematics*, **2017**, 311, 11-37	2.4	15
525	Fractional spectral and pseudo-spectral methods in unbounded domains: Theory and applications. *Journal of Computational Physics*, **2017**, 338, 527-566	4.1	25

524	A numerical scheme based on radial basis function finite difference (RBF-FD) technique for solving the high-dimensional nonlinear Schrödinger equations using an explicit time discretization: Runge–Kutta method. *Computer Physics Communications*, **2017**, 217, 23-34	4.2	51
523	Fourth-order numerical method for the space-time tempered fractional diffusion-wave equation. *Applied Mathematics Letters*, **2017**, 73, 120-127	3.5	52
522	A meshless method for the numerical solution of nonlinear weakly singular integral equations using radial basis functions. *European Physical Journal Plus*, **2017**, 132, 1	3.1	24
521	Spectral element technique for nonlinear fractional evolution equation, stability and convergence analysis. *Applied Numerical Mathematics*, **2017**, 119, 51-66	2.5	43
520	Error analysis of method of lines (MOL) via generalized interpolating moving least squares (GIMLS) approximation. *Journal of Computational and Applied Mathematics*, **2017**, 321, 540-554	2.4	4
519	Numerical investigation based on direct meshless local Petrov Galerkin (direct MLPG) method for solving generalized Zakharov system in one and two dimensions and generalized Gross–Pitaevskii equation. *Engineering With Computers*, **2017**, 33, 983-996	4.5	20
518	The local radial point interpolation meshless method for solving Maxwell equations. *Engineering With Computers*, **2017**, 33, 897-918	4.5	25
517	The numerical solution of two-dimensional logarithmic integral equations on normal domains using radial basis functions with polynomial precision. *Engineering With Computers*, **2017**, 33, 853-870	4.5	35
516	The meshless local collocation method for solving multi-dimensional Cahn-Hilliard, Swift-Hohenberg and phase field crystal equations. *Engineering Analysis With Boundary Elements*, **2017**, 78, 49-64	2.6	54
515	A local meshless method for solving multi-dimensional Vlasov–Poisson and Vlasov–Poisson–Fokker–Planck systems arising in plasma physics. *Engineering With Computers*, **2017** , 33, 961-981	4.5	20
514	Element free Galerkin approach based on the reproducing kernel particle method for solving 2D fractional Tricomi-type equation with Robin boundary condition. *Computers and Mathematics With Applications*, **2017**, 73, 1270-1285	2.7	39
513	Spectral analysis and multigrid preconditioners for two-dimensional space-fractional diffusion equations. *Journal of Computational Physics*, **2017**, 350, 992-1011	4.1	35
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