

# A Complete Bibliography of Publications in *Journal of Computational and Applied Mathematics* (2025–2029)

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## Title word cross-reference

**$k$**  [DJ25, JFP25].  **$l^2$**  [Xie25].  **$l_{1/2}$**  [CLJX25].  
**R** [CdlHG25].  **$n$**  [Ran25].  **$n:G$**  [DJ25].  
 **$\tilde{W}_2(m, m - 1)$**  [SHK25].  **$w$**  [AAN25].

**-dimensional** [Ran25]. **-norm** [Xie25].  
**-out-of-** [DJ25]. **-record** [JFP25].

**1** [Ano25a, Ano25b]. **15** [Ano25c].

**2025** [Ano25h, Ano25a, Ano25c, Ano25b].

**accuracy** [BAPPF25]. **accurate** [YWW25].  
**ADAM** [SWWY25]. **ADAM-type**  
[SWWY25]. **adaptive** [ZMG25]. **adaptivity**  
[KS25b]. **additive** [Ran25]. **adversarial**

[AGGM25]. **affinely** [Sah25]. **algorithm**  
[CLJX25, FA25, GLTW25, HBG25, JJM25,  
SQLZ25, SWWY25]. **Allen** [HKH<sup>+</sup>25].  
**Almost** [CCLH25]. **American** [ZZ25].  
**Analysis**  
[DLR25, JFP25, ADY25, LGDN25, SX25,  
SGRS25, TC25, ZLS25, ZC25, ZFCM25].  
**anisotropic** [WX25]. **annular** [YWW25].  
**Application** [FKVZ25, BRPP25].  
**approach** [HBG25, SGRS25]. **Approaches**  
[ZFCM25]. **Approximate** [KSC25, ZNL25].  
**approximates** [Xie25]. **approximating**  
[SHK25]. **Approximation** [KCM25, CA25,  
CdlHG25, Öza25, TC25, YC25].  
**approximations** [GHZ25]. **arbitrary**  
[LC25, PY25]. **argument** [FA25].  
**argument-based** [FA25]. **arrangement**  
[MT25]. **arrival** [BC25]. **Asian** [AAN25].

**assets** [ZFCM25]. **assimilation** [DLR25]. **asymptotic** [ZC25]. **augmented** [ZNL25]. **authentic** [LGDN25].

**B** [LWL<sup>+</sup>25]. **B-spline** [LWL<sup>+</sup>25]. **backward** [CP25]. **bank** [ZFCM25]. **based** [FA25, GLTW25, JFP25, JJM25, LWL<sup>+</sup>25, MS25, WCS25, You25]. **basis** [KCM25, WYZ25]. **Bayesian** [YXM25]. **Bessel** [LC25, ZC25]. **between** [Xie25]. **BINO** [YXM25]. **bioconvective** [UX25]. **Block** [GH25, BKST25, CLJX25, KSC25]. **block-by-block** [KSC25]. **blurred** [JJM25]. **Board** [Ano25d, Ano25e, Ano25f, Ano25g]. **book** [DG25]. **bounded** [FKVZ25]. **Bounds** [CP25, BRPP25]. **Brinkman** [JLC25]. **Brownian** [AAN25].

**Cahn** [HKH<sup>+</sup>25]. **calculus** [Öza25]. **Can** [NT25]. **chain** [HBG25]. **chaotic** [ADY25]. **class** [WX25, WCS25]. **cold** [MHWY25]. **collected** [DJ25]. **collocation** [GHD25, HRST25]. **complementarity** [WCS25]. **complex** [FKVZ25, FA25]. **components** [DJ25]. **composite** [LGDN25]. **compressed** [CLJX25]. **Computational** [UX25]. **computations** [ZWSC25]. **Computing** [JVW25]. **conditions** [Ran25, Xie25]. **conduction** [OTD<sup>+</sup>25]. **conductivity** [Sai25]. **conformable** [GLTW25]. **connectivity** [ZLY25]. **conserving** [ZMG25]. **constrained** [CLJX25, JJM25]. **constraint** [GHZ25]. **constraints** [ZLY25, ZFCM25]. **Construction** [YC25]. **continuity** [JJM25]. **continuous** [DLR25]. **continuously** [SQLZ25]. **contractive** [KIF<sup>+</sup>25]. **control** [GHZ25, GLTW25, SKM25, SWWY25, ZFCM25]. **controllability** [SX25]. **controlled** [KIF<sup>+</sup>25]. **convergence** [LGDN25]. **converging** [KS25a]. **Convex** [AGGM25]. **copositive** [HLS25]. **core** [BPT25]. **COS** [ACO25]. **cost** [AAN25]. **coupled** [ZMG25]. **credit** [HBG25]. **crystal**

[LLZH25, WX25]. **Cubic** [LWL<sup>+</sup>25]. **curves** [FKVZ25]. **cyclic** [BRPP25].

**Darcy** [JLC25, You25]. **Darcy-transport** [JLC25]. **data** [DJ25, DLR25, SQLZ25]. **decomposition** [CWX25, LC25, SGRS25]. **deep** [SSM25, ZLS25]. **DEIM** [CWX25]. **delay** [GHD25, HRST25]. **dendritic** [WX25]. **dependent** [OTD<sup>+</sup>25]. **derivatives** [GLTW25]. **Difference** [AGGM25, HKH<sup>+</sup>25]. **differentiable** [SQLZ25]. **differential** [AFA25, KSC25, LLG25, Ran25, SX25, SKM25]. **diffusion** [ACO25, PY25]. **dimensional** [Ran25, ZMG25]. **discontinuous** [JLC25]. **discrete** [ACO25, CCLH25, GH25, MHWY25]. **discrete-time** [CCLH25, MHWY25]. **discretization** [SWWY25, SSM25, ZLS25]. **discretization-invariant** [ZLS25]. **distance** [Xie25]. **distributed** [HRST25]. **distributed-order** [HRST25]. **distribution** [CP25, JFP25]. **distributions** [ACO25]. **Domain** [KS25a]. **domains** [YWW25, ZMG25]. **driven** [Ran25]. **dual** [CQ25]. **dynamics** [ADY25].

## Editorial

[Ano25d, Ano25e, Ano25f, Ano25g].

## Efficient

[CM25, ZNL25, CLJX25, GHZ25, GHD25, SGRS25, SWWY25, WX25, YWW25]. **eigenvalue** [HLS25, Sah25, TC25]. **eigenvalues** [Sah25]. **elastic** [LWL<sup>+</sup>25, LGDN25]. **element** [GHZ25, OTD<sup>+</sup>25]. **elements** [NT25, SWWY25]. **elliptic** [GHZ25, SWWY25, YWW25]. **Emden** [SGRS25]. **empirical** [GH25]. **Energy** [ZMG25, LLZH25]. **Energy-conserving** [ZMG25]. **energy-stable** [LLZH25]. **Enhancing** [CA25]. **environment** [AAN25]. **epidemic** [KS25a]. **equation** [AFA25, BKST25, HKH<sup>+</sup>25, KIF<sup>+</sup>25,

LLZH25, SSM25, ZZ25]. **equations** [BPT25, GHD25, HRST25, JJM25, KSC25, LLG25, MS25, PY25, Ran25, SX25, SQLZ25, SKM25, SGRS25, YWW25]. **equilibrium** [PY25]. **equilibrium-diffusion** [PY25]. **error** [CA25, TC25, Xie25]. **estimates** [CA25]. **Estimating** [BC25]. **estimation** [LLG25]. **Euler** [Ran25, SKM25]. **Eulerian** [PY25]. **evaluation** [LC25]. **even** [DLR25]. **example** [OTD<sup>+</sup>25, ZFCM25]. **exciting** [ACO25]. **explicit** [KS25a, Ran25]. **exponent** [MS25]. **exponential** [CCLH25, CM25]. **extension** [ACO25, CQ25, KS25b, ZLS25]. **extrapolation** [LC25].

**facility** [MHWY25]. **factor** [LLG25]. **factorization** [ZNL25]. **failure** [DJ25]. **February** [Ano25h]. **feedforward** [YC25]. **Feller** [CdlHG25]. **field** [LLZH25, MT25, WX25]. **Fields** [BAPPF25]. **filled** [SQLZ25]. **finance** [HBG25]. **finding** [FA25]. **finite** [GHZ25, HKH<sup>+</sup>25, NT25, PY25, SWWY25]. **fitting** [SQLZ25]. **fixed** [ADY25]. **flow** [UX25, You25]. **fluid** [ADY25]. **formula** [CA25]. **formulas** [SHK25]. **formulation** [ZZ25]. **Forward** [YXM25, CP25]. **four** [CM25]. **fourth** [HKH<sup>+</sup>25, SGRS25]. **fourth-order** [HKH<sup>+</sup>25, SGRS25]. **Fowler** [SGRS25]. **FPMPME** [ZWSC25]. **fractal** [KCM25]. **fractional** [ADY25, ABH<sup>+</sup>25, AAN25, GLTW25, HRST25, KSC25, Öza25, SKM25]. **fractional-order** [GLTW25]. **fractured** [ABH<sup>+</sup>25]. **framework** [KS25b]. **free** [SQLZ25]. **function** [MPB25, Öza25, SQLZ25, ZC25]. **functions** [KCM25, LC25, OTD<sup>+</sup>25, SHK25, YC25]. **fundamental** [KC25]. **fuzzy** [AAN25].

**Galerkin** [JLC25, ZMG25]. **Gaussian** [BAPPF25, Ran25]. **generalized** [Ran25, ZZ25]. **genuine** [CQ25].

**Geometric** [AAN25, DJ25]. **global** [FA25]. **GMsFEM** [SSM25]. **Gompertz** [JFP25]. **Gordon** [ZMG25]. **grade** [UX25]. **gradient** [GLTW25]. **gradient-based** [GLTW25]. **graph** [SNZ25]. **graphs** [BAPPF25]. **gravitational** [Sai25]. **Gregory** [ZBK25]. **growth** [WX25].

**Hawkes** [ACO25]. **heat** [ADY25, OTD<sup>+</sup>25]. **Hermite** [ZMG25]. **Hessenberg** [BKST25]. **Heston** [ACO25]. **heterogeneous** [ABH<sup>+</sup>25, DJ25, UX25]. **HH** [BRPP25]. **high** [BAPPF25, CWX25, WX25]. **high-order** [WX25]. **Higher** [LGDN25]. **Higher-order** [LGDN25]. **Highly** [SGRS25, ZC25]. **Hilbert** [SHK25]. **hodograph** [FKVZ25]. **homogeneous** [UX25]. **HOMS** [LGDN25]. **HOMS-PINN** [LGDN25]. **horizontal** [WCS25]. **hydrodynamics** [PY25]. **hyperplane** [WYZ25].

**identity** [BRPP25]. **IDFPM** [JJM25]. **IDFPM-based** [JJM25]. **image** [JJM25]. **imaging** [MT25]. **impact** [DG25]. **implementation** [BPT25]. **implicit** [WCS25]. **Improved** [WCS25, HBG25]. **impulses** [CCLH25]. **inclusion** [HLS25]. **index** [JFP25]. **induced** [CWX25]. **inequalities** [BRPP25]. **inference** [DJ25]. **infinite** [DLR25, LC25]. **Influence** [Sai25]. **information** [BRPP25]. **informed** [LGDN25]. **inhomogeneous** [TC25]. **initial** [Ran25]. **instabilities** [FA25]. **Integral** [MPB25, GHZ25, GHD25, KIF<sup>+</sup>25, MS25, ZZ25]. **integrals** [LC25, SHK25, ZC25]. **integration** [KS25b, MS25]. **integro** [AFA25, SKM25]. **integro-differential** [AFA25, SKM25]. **interpolation** [CA25, GH25, OTD<sup>+</sup>25]. **interpolatory** [CWX25]. **invariant** [ZLS25]. **Inverse** [Sah25, CQ25, YXM25]. **Inversion** [YXM25]. **investigate** [FA25]. **involving** [LC25]. **irregular** [YWW25]. **isotropic**

[TC25]. **iteration** [WCS25, ZWSC25].  
**iterative** [GHZ25, ZLY25].

**January** [Ano25a, Ano25c]. **Jensen** [BRPP25]. **jump** [ACO25]. **jump-diffusion** [ACO25].

**Kaczmarz** [WYZ25]. **KDV** [BPT25].  
**kernel** [Öza25]. **kind** [GHD25]. **kinetic** [FA25]. **Klein** [ZMG25]. **Kutta** [KS25b].

**L** [CWX25]. **L-DEIM** [CWX25].  
**Lagrangian** [PY25, ZNL25]. **Lane** [SGRS25]. **large** [DLR25]. **layers** [ADY25].  
**learn** [NT25]. **learning** [SSM25]. **Leffler** [Öza25]. **length** [BC25]. **level** [KC25].  
**liabilities** [ZFCM25]. **lifetime** [JFP25].  
**lifetimes** [DJ25]. **LightGBM** [HBG25].  
**Lightning** [SNZ25]. **like** [CA25]. **likelihood** [DJ25, LLG25]. **limit** [PY25]. **linear** [CLJX25, GHZ25, LLZH25, SX25, ZFCM25].  
**Lipschitz** [JJM25]. **local** [Xie25, You25].  
**low** [BKST25]. **low-rank** [BKST25]. **Lucas** [LC25].

**management** [ZFCM25]. **mapping** [YWW25]. **mappings** [KIF<sup>+</sup>25]. **March** [Ano25b]. **Markov** [BAPPF25]. **matched** [OTD<sup>+</sup>25]. **matching** [SNZ25]. **material** [UX25]. **materials** [LGDN25].  
**mathematical** [SGRS25]. **matrices** [CQ25, Sah25]. **matrix** [WCS25, ZNL25].  
**Maximum** [DJ25, LLG25]. **measure** [SX25]. **mechanism** [MHWY25]. **media** [ABH<sup>+</sup>25, You25]. **medium** [Sai25, TC25].  
**mesh** [You25]. **method** [AFA25, ACO25, BKST25, GHD25, HKH<sup>+</sup>25, JLC25, KC25, KSC25, LWL<sup>+</sup>25, LGDN25, MS25, OTD<sup>+</sup>25, SKM25, WYZ25, YWW25, ZLY25, ZMG25, ZWSC25, ZNL25].  
**methods** [CM25, GH25, KS25b, LC25, WX25, WCS25].  
**metric** [FKVZ25, KIF<sup>+</sup>25]. **MFPIO** [ZWSC25]. **minimizers** [Xie25]. **Mittag**

[Öza25]. **Mittag-Leffler** [Öza25]. **mKDV** [BPT25]. **model** [ABH<sup>+</sup>25, ACO25, KS25a, WX25, ZZ25].  
**modeling** [MHWY25, YXM25].  
**modification** [FKVZ25]. **modified** [BKST25]. **modulus** [WCS25].  
**modulus-based** [WCS25]. **moments** [CP25]. **Montgomery** [BRPP25]. **Moore** [CQ25]. **motion** [AAN25]. **Multi** [KC25, BPT25, KSC25, LGDN25, LLG25, ZMG25].  
**multi-core** [BPT25]. **multi-dimensional** [ZMG25]. **multi-factor** [LLG25].  
**Multi-level** [KC25]. **multi-scale** [LGDN25].  
**multi-term** [KSC25]. **multilevel** [You25].  
**multilinear** [ZWSC25]. **Multiscale** [ABH<sup>+</sup>25]. **multivariate** [Öza25, Xie25].  
  
**near** [MT25]. **near-field** [MT25]. **network** [LGDN25, YC25]. **networks** [NT25, ZLS25].  
**Neural** [YXM25, LGDN25, NT25, YC25].  
**neutral** [AFA25]. **noises** [Ran25]. **Non** [DG25, SX25]. **non-linear** [SX25].  
**Non-uniformly** [DG25]. **nonconvex** [CLJX25, Xie25]. **nonlinear** [HRST25, JJM25, SQLZ25, ZMG25].  
**nonlocal** [Sai25]. **nonnegative** [ZNL25].  
**norm** [Xie25]. **Novel** [GHZ25, CA25].  
**nudging** [DLR25]. **Numerical** [BPT25, CdlHG25, ZBK25, AFA25, JVV25, ZFCM25]. **Nuttall** [MPB25]. **Nyström** [MS25].  
  
**observations** [BC25]. **online** [SSM25].  
**Operator** [YXM25, ZLS25]. **operators** [CdlHG25, Öza25, YC25]. **Optimal** [MT25, SHK25, GHZ25, GLTW25, SKM25, SGRS25, SWWY25, ZFCM25].  
**optimization** [GLTW25, MHWY25].  
**optimized** [HBG25]. **option** [AAN25].  
**options** [ACO25, ZZ25]. **order** [AFA25, CM25, CWX25, DG25, GLTW25, HKH<sup>+</sup>25, HRST25, LLZH25, LGDN25, LC25, Ran25, SGRS25, WX25]. **order-book** [DG25]. **oscillating** [SHK25]. **oscillatory**

[ZC25].

**PageRank** [ZWSC25]. **parallelization** [BPT25]. **parameter** [SQLZ25]. **parameter-free** [SQLZ25]. **parameters** [DJ25, DLR25]. **Pareto** [HLS25]. **paths** [BAPPF25]. **Penrose** [CQ25]. **performance** [JFP25]. **periodic** [SHK25]. **phase** [LLZH25, WX25, ZFCM25]. **phase-field** [WX25]. **physics** [LGDN25]. **physics-informed** [LGDN25]. **PINN** [LGDN25]. **planar** [FKVZ25]. **plasma** [FA25]. **point** [ADY25]. **poles** [FA25]. **polyharmonic** [KC25]. **polynomial** [Sah25]. **polynomials** [FKVZ25]. **porous** [You25]. **positivity** [PY25]. **positivity-preserving** [PY25]. **posterior** [You25]. **posteriori-based** [You25]. **power** [AAN25]. **PR** [CLJX25]. **Prediction** [SSM25, HBG25]. **prescribed** [Sah25]. **preserving** [KS25a, PY25]. **price** [DG25]. **pricing** [AAN25, ACO25, ZZ25]. **problem** [ABH<sup>+</sup>25, JLC25, OTD<sup>+</sup>25, Sah25, TC25, WYZ25, You25]. **problems** [CLJX25, GHZ25, GLTW25, JJM25, KC25, LGDN25, SQLZ25, SKM25, SWWY25, WCS25, YXM25]. **process** [ACO25, CP25]. **product** [LC25, MS25]. **programming** [AGGM25]. **programs** [CLJX25]. **Projective** [KS25b]. **propagation** [LWL<sup>+</sup>25]. **pursuit** [WYZ25]. **Pythagorean** [FKVZ25]. **Pythagorean-hodograph** [FKVZ25]. **quadratic** [JVW25, Xie25]. **quadrature** [SHK25, ZBK25, ZC25]. **Queue** [ACO25, BC25]. **radial** [KCM25]. **radiation** [PY25]. **Random** [BAPPF25, SWWY25]. **range** [JVW25]. **rank** [BKST25]. **rate** [YC25]. **rates** [BC25]. **reactions** [UX25]. **record** [JFP25]. **rectangular** [KIF<sup>+</sup>25]. **recurrence** [CP25]. **reduction**

[ABH<sup>+</sup>25, Xie25]. **refinement** [You25]. **regime** [ZZ25]. **regime-switching** [ZZ25]. **region** [Xie25]. **regularized** [CLJX25, WYZ25]. **relative** [BAPPF25]. **renewal** [CP25]. **repair** [MHWY25]. **repairable** [MHWY25]. **representations** [MPB25]. **restoration** [JJM25]. **retrial** [MHWY25]. **Richards** [SSM25]. **Riesz** [CdlHG25]. **risk** [AAN25, HBG25]. **Rosenbrock** [CM25]. **rotating** [Sai25]. **Runge** [KS25b]. **sampled** [DG25]. **SAV** [ZMG25]. **scale** [LGDN25]. **scheme** [HRST25, KS25a, LLZH25, PY25, Ran25, ZMG25, ZNL25]. **schemes** [GHZ25]. **search** [HBG25]. **Second** [AFA25, LLZH25, Ran25]. **Second-order** [AFA25, LLZH25, Ran25]. **sections** [OTD<sup>+</sup>25]. **self** [ACO25]. **self-exciting** [ACO25]. **sensing** [CLJX25]. **sensor** [MT25]. **sequence** [BPT25]. **series** [MPB25]. **service** [BC25]. **sigmoidal** [YC25]. **signal** [JJM25]. **simplex** [ZC25]. **simulated** [DG25]. **singular** [MS25]. **SIS** [KS25a]. **SMEs** [HBG25]. **Solution** [KIF<sup>+</sup>25, KSC25]. **solutions** [BPT25, KC25]. **solve** [GLTW25]. **solving** [GHD25, HRST25, KC25, LGDN25, SQLZ25, SGRS25]. **some** [ZLS25]. **sources** [AAN25]. **space** [SHK25]. **spaces** [KIF<sup>+</sup>25]. **sparrow** [HBG25]. **sparse** [JJM25, Sah25, WYZ25]. **Spectral** [TC25, GHD25, HRST25, ZMG25]. **spline** [LWL<sup>+</sup>25]. **splitting** [CLJX25, WCS25]. **stability** [CCLH25, SX25]. **stabilization** [CCLH25]. **stable** [LLZH25]. **standby** [MHWY25]. **state** [GHZ25]. **stepping** [WX25]. **Stochastic** [MHWY25, CCLH25, KS25a]. **strongly** [KS25a, SHK25]. **structural** [ZLY25]. **structured** [Sah25]. **study** [UX25]. **subdiffusion** [YXM25]. **Sufficient** [Xie25]. **supply** [HBG25]. **sure** [CCLH25]. **surrogate** [WYZ25]. **SVM** [AGGM25]. **switching** [ZZ25]. **Sylvester** [BKST25].

**symmetric** [ZNL25]. **system** [DJ25, ZMG25]. **systems** [CCLH25, MHWY25, ZLY25].

**Taylor** [CA25]. **Taylor-like** [CA25]. **technique** [SWWY25]. **tensor** [BKST25, CWX25]. **tensors** [HLS25]. **term** [KSC25]. **theorems** [HLS25]. **thermal** [Sai25]. **thermoelastic** [Sai25]. **thermoporoelasticity** [ABH<sup>+</sup>25]. **third** [GHD25, UX25]. **third-grade** [UX25]. **three** [LC25]. **till** [CM25, DJ25]. **time** [ABH<sup>+</sup>25, CCLH25, KS25b, MHWY25, WX25, ZMG25]. **time-stepping** [WX25]. **times** [CP25]. **Timestep** [OTD<sup>+</sup>25]. **Timestep-dependent** [OTD<sup>+</sup>25]. **transaction** [AAN25]. **transfer** [ADY25]. **transmission** [TC25]. **transport** [JLC25]. **triangles** [ZBK25]. **trust** [Xie25]. **two** [CLJX25]. **two-block** [CLJX25]. **type** [BRPP25, CLJX25, SWWY25].

**unbounded** [ZMG25]. **uncertain** [LLG25]. **unconditionally** [LLZH25]. **undamped** [ZLY25]. **uniform** [MT25]. **uniformly** [DG25]. **unreliable** [MHWY25]. **updating** [ZLY25]. **Using** [BPT25, CA25, SSM25].

**value** [Ran25]. **values** [JFP25]. **variable** [MS25, Sai25]. **via** [BRPP25, KSC25, KIF<sup>+</sup>25, ZC25]. **viscoelastic** [LWL<sup>+</sup>25]. **Volterra** [AFA25, GHD25, MS25]. **volume** [PY25].

**wave** [LWL<sup>+</sup>25]. **wavelets** [SKM25]. **weakly** [KIF<sup>+</sup>25, MS25]. **weighted** [BRPP25]. **white** [Ran25]. **without** [JJM25].

**zeros** [FA25].

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**Alsenafi:2025:GAP**

**Alikhanov:2025:MMR**

**Arias:2025:HQH**

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