



Author Index Volume 205 (2007)

- Abdel-Rehim, E.A.**, see **Gorenflo, R.** 871– 881
- Agarwal, R.P.**, see **O'Regan, D.** 751– 763
- Andrew, S.M., C.T.H. Baker and G.A. Bocharov**, Rival approaches to mathematical modelling in immunology 669– 686
- Andrle, M. and L. Rebollo-Neira**, Experiments on orthogonalization by biorthogonal representations of orthogonal projectors 545– 551
- Ansari, A.R., S.A. Bakr and G.I. Shishkin**, A parameter-robust finite difference method for singularly perturbed delay parabolic partial differential equations 552– 566
- Appleby, J.A.D. and C. Kelly**, Spurious oscillation in a uniform Euler discretisation of linear stochastic differential equations with vanishing delay 923– 935
- Arévalo, C., G. Söderlind and J.D. López**, Constant coefficient linear multistep methods with step density control 891– 900
- Argyros, I.K.**, On the convergence of Newton's method for a class of nonsmooth operators 584– 593
- Arponen, T.**, Tensor invariants in numerical geometric integration of ODEs 791– 801
- Baguelin, M., J. LeFèvre and J.-P. Richard**, How to deal with potentially huge dimensional state space: The meta-dynamics approach—application to a model of the co-evolution of bacterio-phage populations 687– 695
- Baker, C.T.H., K. Burrage and N.J. Ford**, Preface: Special issue on evolutionary problems 667– 668
- Baker, C.T.H.**, see **Andrew, S.M.** 669– 686
- Bakr, S.A.**, see **Ansari, A.R.** 552– 566
- Bartoszewski, Z. and Z. Jackiewicz**, Derivation of continuous explicit two-step Runge–Kutta methods of order three 764– 776
- Basto, M., V. Semiao and F. Calheiros**, Dynamics in spectral solutions of Burgers equation 296– 304
- Beretta, E.**, see **Carletti, M.** 835– 848
- Bocharov, G.A.**, see **Andrew, S.M.** 669– 686
- Booth, H.**, see **Hegland, M.** 708– 724
- Böttcher, A., J. Gutiérrez-Gutiérrez and P.M. Crespo**, Mass concentration in quasicommutators of Toeplitz matrices 129– 148
- Boyd, J.P. and D.H. Gally**, Numerical experiments on the accuracy of the Chebyshev–Frobenius companion matrix method for finding the zeros of a truncated series of Chebyshev polynomials 281– 295
- Bracken, P.**, see **Idrees Bhatti, M.** 272– 280
- Braconnier, T.**, see **Valdettaro, L.** 382– 393
- Brugnano, L. and C. Magherini**, Blended implicit methods for solving ODE and DAE problems, and their extension for second-order problems 777– 790
- Bruti-Liberati, N. and E. Platen**, Strong approximations of stochastic differential equations with jumps 982–1001
- Buckwar, E. and R. Winkler**, Improved linear multi-step methods for stochastic ordinary differential equations 912– 922
- Bueno, M.I. and F.M. Dopico**, A more accurate algorithm for computing the Christoffel transformation 567– 582
- Burden, C.**, see **Hegland, M.** 708– 724
- Burrage, K.**, see **Baker, C.T.H.** 667– 668
- Burrage, K.**, see **Tian, T.** 696– 707
- Burrage, P.M.**, see **Tian, T.** 696– 707
- Calheiros, F.**, see **Basto, M.** 296– 304
- Carletti, M. and E. Beretta**, Numerical detection of instability regions for delay models with delay-dependent parameters 835– 848
- Carletti, M.**, see **Tian, T.** 696– 707
- Casas, F.**, New numerical integrators based on solvability and splitting 802– 813
- Chaillou, A. and M. Suri**, A posteriori estimation of the linearization error for strongly monotone nonlinear operators 72– 87
- Chang, S.-L., C.-S. Chien and B.-W. Jeng**, An efficient algorithm for the Schrödinger–Poisson eigenvalue problem 509– 532
- Chen, J.**, see **Wang, T.** 430– 452
- Chen, L.-Q.**, see **Zhang, L.** 174– 185
- Chen, Y., W. Härdle and V. Spokoiny**, Portfolio value at risk based on independent component analysis 594– 607
- Chien, C.-S.**, see **Chang, S.-L.** 509– 532
- Civalek, Ö.**, Numerical analysis of free vibrations of laminated composite conical and cylindrical shells: Discrete singular convolution (DSC) approach 251– 271
- Crespo, P.M.**, see **Böttcher, A.** 129– 148
- Cui, M. and F. Geng**, Solving singular two-point boundary value problem in reproducing kernel space 6– 15
- Deuring, P.**, Eigenvalue estimates for a preconditioned Galerkin matrix arising from mixed finite element discretizations of viscous incompressible flows 453– 457
- Diogo, T.**, see **Ford, N.J.** 849– 858
- Dopico, F.M.**, see **Bueno, M.I.** 567– 582
- Fischer, M. and M. Reiß**, Discretisation of stochastic control problems for continuous time dynamics with delay 969– 981
- Ford, J.M.**, see **Ford, N.J.** 849– 858
- Ford, N.J., T. Diogo, J.M. Ford and P. Lima**, Numerical modelling of qualitative behaviour of solutions to convolution integral equations 849– 858
- Ford, N.J.**, see **Baker, C.T.H.** 667– 668
- Frayssé, V.**, see **Valdettaro, L.** 382– 393
- Gally, D.H.**, see **Boyd, J.P.** 281– 295
- Gao, L., B. Zhang and D. Liang**, The splitting finite-difference time-domain methods for Maxwell's equations in two dimensions 207– 230
- Geng, F.**, see **Cui, M.** 6– 15
- Gilsing, H. and T. Shardlow**, SDELab: A package for solving stochastic differential equations in MATLAB 1002–1018
- González-Pinto, S., S. Pérez-Rodríguez and R. Rojas Bello**, Corrigendum to “Efficient iterations for Gauss methods on second-order problems” [J. Comput. Appl. Math. 189 (2006) 80–97] 583– 583

Gorenflo, R. and E.A. Abdel-Rehim , Convergence of the Grünwald–Letnikov scheme for time-fractional diffusion	871– 881	Lima, P., see Ford, N.J.	849– 858
Gorenflo, R. , see Mainardi, F.	725– 735	Liu, F.-T. and T.-Z. Huang , An error bound for the USAOR method	608– 616
Gutiérrez-Gutiérrez, J. , see Böttcher, A.	129– 148	Liu, M. , see Hu, G.-D.	633– 639
Hadjidimos, A. and M. Lapidakis , Stationary biparametric ADI preconditioners for conjugate gradient methods	364– 381	López, J.D. , see Arévalo, C.	891– 900
Han, B.S. , see Liang, Y.M.	16– 31		
Hansen, E. , Galerkin/Runge–Kutta discretizations of nonlinear parabolic equations	882– 890	MacNamara, S. , see Hegland, M.	708– 724
Härdle, W. , see Chen, Y.	594– 607	Magherini, C. , see Brugnano, L.	777– 790
Hasegawa, T. and H. Suguri , Quadrature rule for indefinite integral of algebraic–logarithmic singular integrands	487– 496	Mainardi, F. , R. Gorenflo and A. Vivoli , Beyond the Poisson renewal process: A tutorial survey	725– 735
He, G. and Y. He , The finite volume method based on stabilized finite element for the stationary Navier–Stokes problem	651– 665	Małolepszy, T. and W. Okrasinski , Conditions for blow-up of solutions of some nonlinear Volterra integral equations	744– 750
He, Y. , see He, G.	651– 665	Mao, X. , C. Yuan and G. Yin , Approximations of Euler–Maruyama type for stochastic differential equations with Markovian switching, under non-Lipschitz conditions	936– 948
Hegland, M. , C. Burden , L. Santoso , S. MacNamara and H. Booth , A solver for the stochastic master equation applied to gene regulatory networks	708– 724	Meng, F. , see Jiang, F.	479– 486
Higham, D.J. and P.E. Kloeden , Strong convergence rates for backward Euler on a class of nonlinear jump-diffusion problems	949– 956	Meng, F. , see Yao, J.	640– 650
Hill, M. , see Li, T.	394– 405	Mohamad, S. , Global exponential stability in DCNNs with distributed delays and unbounded activations	161– 173
Hoe Choi, S. , see Joong Kim, K.	149– 160		
Hu, G.-D. and M. Liu , Input-to-state stability of Runge–Kutta methods for nonlinear control systems	633– 639	Ogasawara, H. , see Yabe, H.	617– 632
Huang, T.-Z. , see Liu, F.-T.	608– 616	Ogita, T. , see Oishi, S.	533– 544
Huo, X. , see Zhang, L.	174– 185	Oishi, S. , K. Tanabe , T. Ogita and S.M. Rump , Convergence of Rump's method for inverting arbitrarily ill-conditioned matrices	533– 544
Iavernaro, F. and D. Trigiante , State-dependent symplecticity and area preserving numerical methods	814– 825	Okrasinski, W. , see Małolepszy, T.	744– 750
Idrees Bhatti, M. and P. Bracken , Solutions of differential equations in a Bernstein polynomial basis	272– 280	O'Regan, D. , B. Yan and R.P. Agarwal , Solutions in weighted spaces of singular boundary value problems on the half-line	751– 763
Ismailov, V.E. , Characterization of an extremal sum of ridge functions	105– 115	Osada, N. , A one parameter family of locally quartically convergent zero-finding methods	116– 128
Jackiewicz, Z. , see Bartoszewski, Z.	764– 776	Pandey, R.K. and A.K. Singh , On the convergence of finite difference methods for weakly regular singular boundary value problems	469– 478
Jeng, B.-W. , see Chang, S.-L.	509– 532	Pérez-Rodríguez, S. , see González-Pinto, S.	583– 583
Jian, J.-b. , R. Quan and X.-l. Zhang , Feasible generalized monotone line search SQP algorithm for nonlinear minimax problems with inequality constraints	406– 429	Petković, L.D. , see Petković, M.S.	32– 52
Jiang, F. and F. Meng , Explicit bounds on some new nonlinear integral inequalities with delay	479– 486	Petković, M.S. , L.D. Petković and L.Z. Rančić , Point estimation of simultaneous methods for solving polynomial equations: A survey (II)	32– 52
Jisheng, K. , L. Yitian and W. Xiuhua , Third-order modification of Newton's method	1– 5	Petronilho, J. , Generic formulas for the values at the singular points of some special monic classical $H_{q,\omega}$ -orthogonal polynomials	314– 324
Joong Kim, K. and S. Hoe Choi , Frequency-dependent interpolation rules using first derivatives for oscillatory functions	149– 160	Platen, E. , see Brutti-Liberati, N.	982–1001
Karp, D. and S.M. Sitnik , Asymptotic approximations for the first incomplete elliptic integral near logarithmic singularity	186– 206	Potthast, R. and J. Schulz , A multiwave range test for obstacle reconstructions with unknown physical properties	53– 71
Kelly, C. , see Appleby, J.A.D.	923– 935		
Kloeden, P.E. and A. Rößler , Runge–Kutta methods for affinely controlled nonlinear systems	957– 968	Quan, R. , see Jian, J.-b.	406– 429
Kloeden, P.E. , see Higham, D.J.	949– 956	Rančić, L.Z. , see Petković, M.S.	32– 52
Lapidakis, M. , see Hadjidimos, A.	364– 381	Rebolledo-Neira, L. , see Andrule, M.	545– 551
LeFèvre, J. , see Baguelin, M.	687– 695	Reiß, M. , see Fischer, M.	969– 981
Li, M.M. , see Liang, Y.M.	16– 31	Ren, Y.-e. , see Wu, X.	239– 250
Li, T. , I. Robinson and M. Hill , The index of merit of k th-copy integration lattices	394– 405	Richard, J.-P. , see Baguelin, M.	687– 695
Liang, D. , see Gao, L.	207– 230	Rieutord, M. , see Valdettaro, L.	382– 393
Liang, Y.M. , L.S. Zhang , M.M. Li and B.S. Han , A filled function method for global optimization	16– 31	Roberts, C.A. , Recent results on blow-up and quenching for nonlinear Volterra equations	736– 743
		Robinson, I. , see Li, T.	394– 405
		Rojas Bello, R. , see González-Pinto, S.	583– 583
		Rößler, A. , see Kloeden, P.E.	957– 968
		Rump, S.M. , see Oishi, S.	533– 544
		Santoso, L. , see Hegland, M.	708– 724
		Schulz, J. , see Potthast, R.	53– 71

- Semiao, V.**, see **Basto, M.**
- Shampine, L.F.**, Design of software for ODEs 296– 304
901– 911
- Shardlow, T.**, see **Gilsing, H.**
- Shishkin, G.I.**, see **Ansari, A.R.**
- Singh, A.K.**, see **Pandey, R.K.**
- Sitnik, S.M.**, see **Karp, D.**
- Śmietański, M.J.**, A generalized Jacobian based Newton method for semismooth block-triangular system of equations 1002–1018
552– 566
469– 478
186– 206
305– 313
891– 900
- Söderlind, G.**, see **Arévalo, C.**
- Song, Y.** and **H. Tian**, Periodic and almost periodic solutions of nonlinear discrete Volterra equations with unbounded delay 859– 870
594– 607
487– 496
72– 87
- Spokoiny, V.**, see **Chen, Y.**
- Sugiura, H.**, see **Hasegawa, T.**
- Suri, M.**, see **Chaillou, A.**
- Tanabe, K.**, see **Oishi, S.**
- Tian, H.**, see **Song, Y.**
- Tian, T., K. Burrage, P.M. Burrage and M. Carletti**, Stochastic delay differential equations for genetic regulatory networks 696– 707
814– 825
382– 393
725– 735
- Trigiante, D.**, see **Iavernaro, F.**
- Tupper, P.F.**, Computing statistics for Hamiltonian systems: A case study 826– 834
- Valdettaro, L., M. Rieutord, T. Braconnier and V. Fraysse**, Convergence and round-off errors in a two-dimensional eigenvalue problem using spectral methods and Arnoldi–Chebyshev algorithm 88– 104
231– 238
- Wang, H.**, A time-splitting spectral method for coupled Gross–Pitaevskii equations with applications to rotating Bose–Einstein condensates 325– 342
- Wang, Q.-R.**, Interval criteria for oscillation of second-order nonlinear differential equations 174– 185
430– 452
16– 31
- Wang, T., J. Chen and L. Zhang**, Conservative difference methods for the Klein–Gordon–Zakharov equations 497– 508
912– 922
- Winkler, R.**, see **Buckwar, E.**
- Wu, G.**, A modified harmonic block Arnoldi algorithm with adaptive shifts for large interior eigenproblems 343– 363
- Wu, X.** and **Y.-e. Ren**, Differential quadrature method based on the highest derivative and its applications 239– 250
- Xiuhan, W.**, see **Jisheng, K.** 1– 5
- Yabe, H., H. Ogasawara and M. Yoshino**, Local and superlinear convergence of quasi-Newton methods based on modified secant conditions 617– 632
751– 763
- Yan, B.**, see **O'Regan, D.**
- Yao, J.** and **F. Meng**, Asymptotic behavior of solutions of certain higher order nonlinear difference equation 640– 650
- Yaslan Karaca, I.**, Discrete third-order three-point boundary value problem 458– 468
936– 948
- Yin, G.**, see **Mao, X.**
- Yitian, L.**, see **Jisheng, K.** 1– 5
- Yoshino, M.**, see **Yabe, H.** 617– 632
- Yuan, C.**, see **Mao, X.** 936– 948
- Zhang, B.**, see **Gao, L.** 207– 230
- Zhang, L., L.-Q. Chen and X. Huo**, Bifurcations of smooth and nonsmooth traveling wave solutions in a generalized degasperis–procesi equation 497– 508
497– 508
- Zhang, L.**, see **Wang, T.**
- Zhang, L.S.**, see **Liang, Y.M.**
- Zhang, S.**, Numerical integration with Taylor truncations for the quadrilateral and hexahedral finite elements 406– 429
- Zhang, W.** and **W. Zhang**, Computing iterative roots of polygonal functions 497– 508
- Zhang, W.**, see **Zhang, W.** 497– 508
- Zhang, X.-L.**, see **Jian, J.-b.** 497– 508