

## ***Publications of 2001:***

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2. Zhong-Zhi Bai, Parallel chaotic multisplitting iterative methods for the large sparse linear complementarity problem, Journal of Computational Mathematics 19:3(2001), 281-292.
3. Zhong-Zhi Bai, C.-L. Wang, Sufficient conditions for the convergent splittings of non-Hermitian positive definite matrices, Linear Algebra and its Applications 330(2001), 215-218.
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5. Zhong-Zhi Bai, A class of new parallel hybrid algebraic multilevel iterations, International Journal of Computer Mathematics, (2001). Vol.19 No.6, 651-672.
6. Hermann Brunner, Qi-Ya Hu, Qun Lin - Geometric meshes in collocation methods for Volterra integral equations with proportional delays - IMA Journal of Numerical Analysis, 2001 21:783-798.
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8. Li-Qun Cao, Jun-Zhi Cui, D.C. Zhu, J.L. Luo - Multiscale finite element method for subdivided periodic elastic structures of composite materials, J. Comp. Math., Vol.19, N0.2, 2001, 205-212.
9. Jing-Bo Chen, Meng-Zhao Qin, Multisymplectic Fourier pseudospectral method for the nonlinear Schrodinger equation, ETNA, 12 (2001) , 193-204.
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13. Zhi-Ming Chen, On the augmented Lagrangian approach to Signorini elastic contact problem, Numer. Math. ,88 (2001), 641-659.
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15. Y.H. Dai, Ya-Xiang Yuan, A three-parameter family of nonlinear conjugate gradient methods, Math. Comp. 70(2001) 1155-1167.

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17. Y.H.Dai, Convergence of nonlinear conjugate gradient methods, *Journal of Computational Mathematics*, 19 (5), 539-548.

18. Y.H.Dai, New Properties of A Nonlinear Conjugate Gradient Method, *Numerische Mathematics*, 89 (1), 83-98.

19. Y.H.Dai, L. Z. Liao, New conjugacy condition and its resulting nonlinear conjugate gradient methods, *Applied Mathematics and Optimization*, 43 (1), 87-101.

20. Qi-Kui Du, De-Hao Yu, Domain decomposition methods based on natural boundary reduction for wave equation, *computing physics*, 18:5(2001), 417-422.

21. Jia-Lin Hong, Ying Liu, Symplectic integrations of linear discontinuous Hamiltonian systems and an application to the numerical simulation of bounded solutions, *Neural, Parallel and Scientific Computations*, 8, 317-326 (2000).

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39. Ping-Bing Ming, Zhong-Ci Shi  $\rightarrow$  Optimal mixed H-P finite element methods for Stokes and non-Newtonian flow, *JCM*, 19, 2001, 67-76.
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### **Papers published in proceedings of symposia and conferences :**

1. Qun Lin, Jia-Fu Lin, 20 Years on extrapolation for finite element methods, Advances in scientific computing, Science Press. 2001.
2. Zhong-Ci Shi, Xue-Jun Xu, Jin-Ru Chen—Multigrid for the mortar-type nonconforming element method for nonsymmetric and indefinite problems, Proceedings of DDM13, DDM.org, 2001.
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5.Guan-Quan Zhang, Pei-Jun Li£–The inverse problem for interest rate derivatives£–International Conference on Scientific and Engineering Computing, March 19-23,2001, Beijing, 59.

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