CURRICULUM VITAE

Yanping Chen

Prof. Yanping Chen
School of Mathematical Sciences
South China Normal University, Guangzhou 510631, China
Tel: 86－20－85216655
Fax: 86－20－85216705
Email: yanpingchen@scnu.edu.cn

Education:

1997-1999 Postdoc, Computational Mathematics, Nanjing University
1997 Ph.D. Computational Mathematics, Shandong University
1988 M.Sc. Computational Mathematics, Xiangtan University
1982 B.Sc. Mathematics, Xiangtan University

Academic position:

2008-present Professor,Guangdong Provincial "Zhujiang Scholar"
School of Mathematical Sciences, South China Normal University
2002-2008 Associate Director
Hunan Key Laboratory for Computation and Simulation in Science and Engineering; Institute for Computational and Applied Mathematics; School of Mathematics and Computation Science, Xiangtan University
1999-2008 Professor
School of Mathematics and Computation Science, Xiangtan University
1994-1999 Associate Professor
Department of Mathematics, Xiangtan University
1988-1994 Lecturer
Department of Mathematics, Xiangtan University
1982-1988 Teacher Assistant
Department of Mathematics, Xiangtan Normal College

Academic visit:

2019.1.4-2019.1.7, Southern University of Science and Technology
2018.11.29-2018.12.5, The Hong Kong University of Science and Technology
2018.11.25-2018.11.29, Shandong University
2018.9.19-2018.9.24, Harbin Institute of Technology
2018.7.13, Huazhong University of Science and Technology
2018.7.12, Wuhan University
2018.7.2, Hunan University
2018.6.25-2018.6.28, Shanghai Jiao Tong University
2018.6.3-2018.6.8, University of Macau

2018.4.30-2018.5.8, National University of Singapore, Singapore
2018.4.23-2018.4.28, City University of Hong Kong
2017.11.1-2017.12.31, The Hong Kong Polytechnic University
2017.6.30, China University of Petroleum
2017.6.16, Peking University
2017.6.15, Chinese Academy of Sciences
2017.5.18, University of Science and Technology of China
2017.5.16, Shanghai Jiao Tong University
2017.5.15, Fudan University
2016.7.19, Beijing University of Technology
2016.6.17, Universidade Federal do Parana, Brazil
2016.5.23, Shanghai Jiao Tong University
2016.4.16, Zhejiang University
2016.3.14, Huazhong University of Science and Technology
2016.3.11-2016.3.13, Wuhan University
2015.7.6-2015.8.3 University of Bordeaux, France
2015.6.8-2015.6.12 Chongqing University
2015.5.22 Xiamen University
2014.4.8-2014.4.22 Nanyang Technological University, Singapore
2013.12.12-2013.12.19Hong Kong Baptist University
2013.11.1-2013.11.25 Humboldt-Universitätzu Berlin, Germany
2011.3.1-2011.3.7 Hong Kong Baptist University
2011.2.21-2011.2.28 King Abdullah University of Science and Technology
2011.2.17-2011.2.20 University of California, Irvine
2011.2.11-2011.2.17 University of Nevada Las Vegas
2010.3.22-2010.6.7 Hong Kong Baptist University
2008.7.30-2008.8.19 Peking University
2007.9.3-2007.9.30 Nanyang Technological University, Singapore
2007.8.15-2007.8.31 Peking University
2007.3.10-2007.6.25 Hong Kong Baptist University
2005.10.24-2005.12.23 Hong Kong Baptist University
2005.8.4 Wayne University, USA
2005.8.3 York University, Canada
2004.12.8-2004.12.14 Peking University
2003.9.5-2004.1.31 University of Kent, Canterbury, UK
2003.1.5-2003.4.6 Hong Kong Baptist University
2001.12.1-2002.3.31 Hong Kong Baptist University
2000.5.15-2000.11.15 Chinese Academy of Sciences
1998.11.4-1999.4.5 Penn State University, USA

Member of the editorial boards:
Mathematica Numerica Sinica, July 1, 2014– December 31, 2020
Numerical Mathematics: A Journal of Chinese Universities, Jan.,2010 -
Advances in Applied Mathematics and Mechanics, the Global Science Press, 2008-

Research interest:

Mixed finite element methods;
Numerical methods for miscible displacement problems;
Moving mesh methods for singularly perturbed problems;
Adaptive mixed FEM for optimal control problems;
Numerical analysis of spectral methods.

Recent research grants:

1. The State Key Program of National Natural Science Foundation of China (11931003, 2020-2024);
2. National Natural Science Foundation of China (41974133, 2020-2023);
3. National Natural Science Foundation of China (11671157, 2017-2020);
4. National Natural Science Foundation of China (91430104, 2015-2017);
5. National Natural Science Foundation of China (11271145, 2013-2016);
6. National Natural Science Foundation of China (10971074, 2010-2012);
7. National Natural Science Foundation of China (10671163, 2007-2009);
8. National Natural Science Foundation of China (10371104, 2004-2006);
9. National Natural Science Foundation of China (10071065, 2001-2003);
10. The Foundation for High-level Talent Faculty of Guangdong Provincial University (2012-2014);
11. High Capability Scientific Computation, National Basic Research Program (973, under the Grant No. 2005CB321703) ------ group member (2005-2010);
12. Specialized Research Fund for the Doctoral Program of Higher Education (20114407110009, 2012-2014);
13. The Foundation for Talent Introduction of Guangdong Provincial University (2009-2011);
14. Guangdong Province Universities and Colleges Pearl River Scholar Funded Scheme (2008-2012);
15. The Project of Department of Education of Guangdong Province (2012KJCX0036, 2012-2014);
16. Program for New Century Excellent Talents in University (NCET-04-0776, 2004-2006);
17. Backbone Teachers Foundation of China State Education Ministry (GG-110-10530-1023, 2000-2002);
18. The key project of Hunan Education Commission (06A069, 2007-2009);
19. The key project of China State Education Ministry (204098, 2004-2005);
20. The key project of Hunan Education Commission (03A045, 2003-2004);

Awards and Honor:

2017 The second-class award of Science and Technology by State Education Ministry
2012 The second-class award in Nature Science of Guangdong Province
2011 The first-class award in Nature Science of Hunan Province
2008 The first-class award of Science and Technology by State Education Ministry
2008 The first-class award of Teaching Achievement in Hunan Province
2008 Supported by Guangdong Provincial “Zhujiang Scholar Award Project”
2006 China Quality Open Course “Numerical Methods” (Lecturer)
2006 The second -class award of Teaching Achievement in Hunan Province
2005 Excellent Researcher on Science and Technology Award, Xiangtan University
2004 Government Special Subsidy, The State Council of China

2004 Supported by Program for New Century Excellent Talents in University by State Education Ministry
2004 The second-class award in Science and Technology Progress of Hunan Province
2004 Excellent Teacher Award, Xiangtan University
2002 Excellent backbone teacher of Chinese Universities by State Education Ministry

Invited talk:

1. International Conference on Domain Decomposition Methods, DDM XXVI, mini-symposium on "Two-grid Method and Its Applications", December 7-11, 2020, The Chinese University of Hong Kong, Hong Kong, China.
2. The International Conference on Spectral and High Order Methods, mini-symposium proposal on Spectral methods for fractional differential equations, July 6-10, 2020, Vienna, Austria.(invited speaker)
3. The 13th AIMS Conference on Dynamical Systems, Differential Equations and Applications, June 5-9, 2020, Atlanta, USA. (invited session organizer)
4. The workshop on “Computational solution and applications of Volterra integral and integro-differential equations”, May 20-23, 2020, Hong Kong Baptist University, Hong Kong, China.(plenary talk)
5. The workshop on “Advanced finite element methods for nonlinear PDEs”, Tsinghua Sanya International Mathematics Forum (TSIMF), March 8-13, 2020, Sanya. (invited speaker)
6. The workshop on “Nonlinear Problems: Numerics and Applications”, Tsinghua Sanya International Mathematics Forum (TSIMF), January 11-16, 2020, Sanya.
7. The seventh China-Germany workshop on Computational Mathematics, Kiel University, Germany, August 19-23, 2019. (invited speaker)
8. Computational Multiscale Methods, July 28- August 3, 2019, Oberwolfach, Germany. (invited speaker)
9. The 9th International Congress on Industrial and Applied Mathematics, minisymposium on numerical methods for PDE-constrained optimal control problems, July 15-19, 2019, Valencia, Spain. (invited speaker)
10. Workshop on Computation of Kinetic Transport and Related Problems, June 21-22, 2019, Shanghai Jiao Tong University, Shanghai.（invited speaker）
11. International Conference on Mathematical Modeling and Numerical Methods, May 30-June 2, 2019, Qingdao. (invited speaker)
12. The International Workshop on PDE-Constrained Optimization, Optimal Control & Applications, December 10-14, 2018, Sanya. (invited speaker)
13. The International Conference on Spectral and High-Order Methods (ICOSAHOM 2018), a mini-symposium on Spectral and High-Order Methods for Singular and Nonlocal Problems, July 9-13, 2018, Imperial College London, UK. (invited speaker)
14. The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, organize a special session: Special Session SS59: Efficient Algorithms for Flow and Transport in Porous Media, Taipei, July 5-9, 2018. (invited session organizer)
15. The workshop on "Modeling and Simulation of Interface-related Problems", the Institute for Mathematical Sciences (IMS) of NUS, Singapore, from 30 April to 3 May 2018. (invited speaker)
16. The Workshop on Computational Mathematics, The Hong Kong Polytechnic University, Hong

Kong, Dec. 9-12, 2017. (invited speaker)

17. The sixth China-Germany workshop on Computational Mathematics, Tongji University, Shanghai, China, Oct. 9-13, 2017. (invited speaker)
18. The International Workshop on Computational Mathematics and Scientific Computing, June 28-July 2, 2017, Ocean University of China, Qingdao, China. (invited speaker)
19. The International Workshop on Advances in Numerical PDEs and Fast Solvers, December 16-18, 2016, Wuhan University. (Plenary speaker)
20. The 9th National Conference on Finite Element Methods, August 19-22, 2016, Emei Mountain. (Plenary speaker, 40 minutes)
21. The 11th bi-annual Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA on July 1-5, 2016. (invited speaker)
22. The 11th ICOSAHOM - International Conference on Spectral and High-Order Methods, Rio de Janeiro, Brazil from June 27th to July 1st, 2016. (invited speaker)
23. The Workshop on Numerical Methods of Nonlinear Problems at Tsinghua Sanya International Mathematics Forum (TSIMF), January 11-15, 2016. (invited speaker)
24. The fifth workshop in the series on Spectral Methods and Their Applications, October 9-12, 2015, Jiangsu Normal University. (invited speaker)
25. Workshop on Frontiers in Computational and Applied Mathematics on September 20, 2015 in Guangzhou during the annual meeting of the Chinese Computational Mathematics Society, at the occasion of the 80th birthday of Professor Hong-ci Huang. (invited speaker)
26. The International Conference on Computational Mathematics and Sciences at Xi'an Jiaotong University, China, June 6-8, 2015. (invited speaker)
27. The 5th International Conference on Scientific Computing and Partial Differential Equations (SCPDE14) On the Occasion of EitanTadmor's 60th Birthday, minisymposium on High Order Numerical Methods for Integral Equations, Hong Kong Baptist University, 8-12 December 2014. (minisymposium organizer, invited speaker)
28. The Workshop on Recent Advances in Numerical Analysis, November 14-16, 2014, Shanghai Jiao Tong University. (invited speaker)
29. The Third Cross-straits Workshop on Computational Mathematics, Sep. 19-23, 2014, Xiangtan University.（Plenary speaker）
30. The International Conference on Spectral and High Order Methods, mini-symposium proposal on Spectral and High Order Methods for Fractional and Integral Differential Equations, June 23-27, 2014, Salt Lake City, USA. (invited speaker)
31. The Sino-French conference on Computational and Applied Mathematics, June 2-6, 2014，Xiamen University, Xiamen, China. (invited speaker)
32. The International Workshop on the Finite Element/Spectral Methods，May 16-18, 2014，Shanghai Normal University, Shanghai, China. (invited speaker)
33. The Second International Conference on Engineering and Computational Mathematics (ECM2013), 16-18 December 2013, Hong Kong polytechnic University. (invited speaker)
34. The conference on Numerical Methods and related problems for Optimal Control problems, July 14-17, 2013, Beijing. (invited speaker)
35. The first Chongqing Workshop on Computational and Applied Mathematics, 30 May – 2 June 2013, Chongqing University. (invited speaker)
36. International Conference on Computational Science On the Occasion of Professor Ben-yu Guo's 70th Birthday, July 16-20, 2012, Shanghai Normal Universty, Shanghai. (invited speaker, 40 minutes)

37. The 8th International Conference on Scientific Computing and Applications, April 1-4, 2012, University of Nevada Las Vegas, Las Vegas. (invited speaker)
38. The fourth International Conference on Scientific Computing and Partial Differential Equations, Hong Kong Baptist University, 5-9 December 2011. (invited speaker, 40 minutes)
39. The fourth China-Germany workshop on Computational Mathematics, South China Normal University, Guangzhou, China, Sep. 26-30, 2011. (invited speaker, 40 minutes)
40. International Conference on Partial Differential Equations & Numerical Analysis, Guiyang, Aug. 22-24, 2011. (invited speaker)
41. Third Workshop on Recent Advances on Spectral Methods and Related Applications, Shanghai Normal University, Shanghai, China, July 14-17, 2011. (invited speaker, 30 minutes)
42. International Conference on Interdisciplinary Applied and Computational Mathematics, June 17-21, 2011, Zhejiang University, Hangzhou, China. (invited speaker, 25 minutes)
43. The First Cross-straits Workshop on Computational Mathematics, Aug. 3-6, 2010, Xiamen University.（Plenary speaker）
44. The Workshop on Numerical Methods for PEDs, on July 28th-August 1st, 2010, at Sun Yat-Sen University, Guangzhou. (invited speaker, 40 minutes)
45. 2009 annual meeting of Chinese Mathematical Society, April 21-24, 2009, Xiamen University. (invited speaker)
46. 2009 Annual meeting of Computational Mathematics Society of Guangdong Province, March 21, 2009, South China Agricultural University, Guangzhou.（Plenary speaker, 40 minutes）
47. The third International Conference on Scientific Computing and Partial Differential Equations, Hong Kong Baptist University, 8-12 December 2008. (40 minutes)
48. International Workshop on Numerical Analysis and Computational methods for Functional Differential and Integral Equations, December 3-6, 2007 Hong Kong Baptist University, Hong Kong. (50 minutes)
49. The second China-Germany workshop on Computational Mathematics on Oct. 9-13, 2007, Zhejiang University, Hangzhou, China. (40 minutes)
50. The tenth annual meeting on Computational Mathematics of National University, Oct. 17-21, 2005,Dalian University of Technology.（Plenary speaker, 40 minutes）
51. The first China-Germany workshop on Computational Mathematics on Sep. 5-10, 2005, Humboldt-University, Berlin, Germany. (40 minutes)
52. The seventh Japan-China Joint Seminar on Numerical Mathematics, August 16-20, 2004, Zhang Jia Jie, China. (one hour)
53. The conference on "Recent Advances in Adaptive Computation", May 24-28, 2004, Zhejiang University, Hangzhou, China. (half hour)
54. The conference on "Superconvergence and a posteriori error estimates in finite element methods", May 31- June 2, 2004, Changsha, China. (half hour)
55. The CMS Summer 2003 meeting, June 14-16, 2003, University of Alberta, Edmonton, Canada. (half hour)

Publications:(* corresponding author)

1. Yanping Chen*, Xiuxiu Lin, Yunqing Huang, and Qian Lin, *hp* spectral element approximation for integral state constrained optimal control problems governed by harmonic equations, Journal of Computational and Applied Mathematics. (accepted, January 3, 2020)

2. Yonghui Qin, Yanping Chen*, Yunqing Huang, and Heping Ma, Multidomain Legendre-Galerkin and collocation least-squares methods for linear differential equations with variable coefficients, Numerical Mathematics: Theory, Methods and Applications. (accepted, December 13, 2019)
3. Peizhen Wang, Yanping Chen*, and Wei Yang, Curl Recovery for the Lowest Order Rectangular Edge Element, Applied Mathematics and Computation. (accepted, October 30, 2019)
4. Huasheng Wang, Yanping Chen*, Yunqing Huang, and Wenting Mao, A posteriori error estimates of the Galerkin spectral methods for space-time fractional diffusion equations, Advances in Applied Mathematics and Mechanics.(accepted, October 7, 2019)
5. Xiulian Shi, Yanping Chen*, Yunqing Huang and Fenglin Huang, Spectral collocation methods for second-order Volterra integro-differential equations with weakly singular kernels, Advances in Applied Mathematics and Mechanics. (accepted, Sep 23, 2019)
6. Yanping Chen*, Qingfeng Li, Yang Wang, and Yunqing Huang, Two-grid methods of finite-element solutions for semi-linear elliptic interface problems, Numerical Algorithms. (accepted, June 8, 2019)
7. Xiuxiu Lin, Yanping Chen* , and Yunqing Huang, A posteriori error estimates of *hp* spectral element methods for optimal control problems with L^2-norm state constraint, Numerical Algorithms. (accepted, April 26, 2019)
8. Xiuxiu Lin, Yanping Chen*, and Yunqing Huang, Galerkin spectral approximation of optimal control problems with L^2-norm control constraint, Applied Numerical Mathematics. Vol.150, 2020, pp. 418-432
9. Yang Wang, Yanping Chen*, and Yunqing Huang, A two-gird method for semi-linear elliptic interface problems by partially penalized immersed finite element methods, Mathematics and Computers in Simulation.Vol. 169, 2020, pp. 1-15
10. Hanzhang Hu and Yanping Chen*, Numerical solution of two-dimensional nonlinear Schrödinger equation using a new two-grid finite element method, Journal of Computational and Applied Mathematics. Vol. 364, 2020, 112333
11. Yanping Chen*, Xin Zhao, and Yunqing Huang, Mortar element method for the time dependent coupling of Stokes and Darcy flows, Journal of Scientific Computing, Vol. 80, No. 2, 2019, pp. 1310-1329.
12. Yanping Chen*, Yang Wang, Yunqing Huang, and Longxia Fu, Two-grid methods of expanded mixed finite-element solutions for nonlinear parabolic problems, Applied Numerical Mathematics, Vol. 144, 2019, pp. 204-222.
13. Yanping Chen*, Haitao Leng, and Wendi Yang, Error estimates of pseudostress-velocity MFEM for optimal control problems governed by stokes equations, Applied Numerical Mathematics, 135, 2019, pp. 407-422.
14. Yanping Chen*, Jinling Zhang, Yunqing Huang, and Yeqing Xu, A posteriori error estimates of *hp* spectral element methods for integral state constrained elliptic optimal control problems, Applied Numerical Mathematics, Vol. 144, 2019, pp. 42-58.
15. Haitao Leng, Yanping Chen*, and Yunqing Huang, Equivalent a posteriori error estimates for elliptic optimal control problems with L^1-control cost, Computers and Mathematics with Applications, Vol. 77, No. 2, 2019, pp. 342-356.
16. Yang Wang, Yanping Chen*, Yunqing Huang, and Ying Liu, Two-grid methods for semi-linear elliptic interface problems by immersed finite element methods, Applied Mathematics and Mechanics (English Edition), Vol. 40, No. 11, 2019, pp. 1657-1676.

17. Yunxia Wei and Yanping Chen*, A Jacobi Spectral Method for Solving Multidimensional Linear Volterra Integral Equation of the Second Kind, Journal of Scientific Computing, Vol. 79, Issue 3, 2019, pp. 1801-1813.
18. Chuanjun Chen, Kang Li, Yanping Chen*, and Yunqing Huang, Two-grid finite element methods combined with Crank-Nicolson scheme for nonlinear Sobolev equations, Advances in Computational Mathematics, Vol. 45, Issue 2, 2019, pp. 611-630.
19. Zhikun Tian, Yanping Chen*, Yunqing Huang, and Jianyun Wang, Two-grid method for the two-dimensional time-dependent Schrodinger equation by the finite element method, Computers and Mathematics with Applications, Vol. 77, Issue 12, 2019, pp. 3043-3053.
20. Shang Liu, Yanping Chen, Yunqing Huang, and Jie Zhou, An efficient two grid method for miscible displacement problem approximated by mixed finite element methods, Computers and Mathematics with Applications, Vol. 77, No. 3, 2019, pp. 752-764.
21. Luoping Chen and Yanping Chen*, Multigrid method for poroelasticity problem by finite element method, Advances in Applied Mathematics and Mechanics, Vol. 11, No. 6, 2019, pp. 1-19.
22. Luoping Chen, Yanping Chen*, and Yunqing Huang, Two grid finite element discretization method for semi-linear hyperbolic integro-differential equations, Numerical Methods for Partial Differential Equations, Vol. 35, No. 5, 2019, pp. 1676–1693.
23. Yunxia Wei, Yanping Chen* and Yunqing Huang, Legendre collocation method for Volterra integro-differential algebraic equation, Computational Methods in Applied Mathematics, Vol. 19, Issue 4, 2019, pp. 833-847.
24. Yunxia Wei, Yanping Chen*, Xiulian Shi and Yuanyuan Zhang, Spectral method for multidimensional Volterra integral equation with regular kernel, Frontiers of Mathematics in China, Vol. 14, No. 2, 2019, 435-448.
25. Yin Yang and Yanping Chen, Spectral collocation methods for nonlinear Volterra integro-differential equations with weakly singular kernels, Bulletin of the Malaysian Mathematical Sciences Society, Vol. 42, 2019, pp. 297-314.
26. Weishan Zheng and Yanping Chen*, Numerical analysis for volterra integral equation with two kinds of delay, Acta Mathematica Scientia, 2019, Vol. 39, pp. 607-617.
27. Haotao Cai, Yanping Chen*, and Yunqing Huang, A Legendre-Petrov-Galerkin method for solving Volterra Integro-differential equations with proportional delays, International Journal of Computer Mathematics, Vol. 96, Issue 5, 2019, pp. 920-934.
28. Fenglin Huang, Yanping Chen*, and Yunqing Huang, A priori error estimates of Meshless method for optimal control problems of stochastic elliptic PDEs, International Journal of Computer Mathematics, Vol. 96, Issue 5, 2019, pp. 1048-1065.
29. Weishan Zheng, Yanping Chen*, and Yunqing Huang, Convergence analysis of Legendre-collocation spectral methods for second order Volterra integro-differential equation with delay, Advances in Applied Mathematics and Mechanics, Vol. 11, No. 2, Feb. 2019, pp. 1-15.
30. Xingfa Yang, Yin Yang∗ , Yanping Chen and Jie Liu， Jacobi Spectral Collocation Method Based on Lagrange Interpolation Polynomials for Solving Nonlinear Fractional Integro-Differential Equations，Advances in Applied Mathematics and Mechanics, Vol. 10, No. 6, December 2018, pp. 1440-1458.
31. Guanrong Li, Yanping Chen*, and Yunqing Huang, A new weak Galerkin finite element scheme for general second-order elliptic problems, Journal of Computational and Applied Mathematics, Vol. 344, December 2018, pp. 701-715.

32. Yang Wang and Yanping Chen*, A two-grid method for incompressible miscible displacement problems by mixed finite element and Eulerian-Lagrangian localized adjoint methods, Journal of Mathematic Analysis and Applications, Vol. 468, Issue 1, December 2018, pp. 406-422.
33. Jiming Yang, Yanping Chen, and Yunqing Huang*, A priori error estimates of a combined mixed finite element and local discontinuous Galerkin method for an incompressible miscible displacement problem, Applied Mathematics and Computation, Vol. 334, October 2018, pp. 141-151.
34. Jianyun Wang and Yanping Chen*, Superconvergence analysis of bi-k degree rectangular elements for two-dimensional time-dependent Schrodinger equations, Applied Mathematics and Mechanics, Vol. 39, Issue 9, September 2018, pp. 1353 – 1372.
35. Jiaoyan Zeng, Yanping Chen*, and Hanzhang Hu, Two-grid method for compressible miscible displacement problem by CFEM-MFEM, Journal of Computational and Applied Mathematics, Vol. 337, August 2018, pp. 175-189.
36. Weishan Zheng and Yanping Chen*, Chebyshev spectral method for Volterra integral equation with multiple delays, Journal of Mathematical Study, Vol. 51, No. 2, June 2018, pp. 214-226.
37. Keyan Wang and Yanping Chen*, Analysis of two-grid discretization scheme for semilinear hyperbolic equations by mixed finite element methods, Mathematical Methods in the Applied Sciences, Vol. 41, Issue 9, June 2018, pp. 3370-3391.
38. Shang Liu, Yanping Chen*, Yunqing Huang, and Jie Zhou, Two-grid methods for miscible displacement problem by Galerkin methods and mixed finite element methods, International Journal of Computer Mathematics, Vol. 95, No. 8, May 2018, pp. 1453-1477.
39. Haotao Cai and Yanping Chen*, A fractional order collocation method for second kind Volterra integral equations with weakly singular kernels, Journal of Scientific Computing, Vol. 75, Issue 2, May 2018, pp. 970 – 992.
40. Xin Zhao and Yanping Chen*, Mortar element method for the coupling of Navier-Stokes and Darcy flows, Advances in Applied Mathematics and Mechanics, Vol. 10, No. 3, April 2018, pp. 710-734.
41. ZhikunTian, Yanping Chen*, and Jianyun Wang, Superconvergence analysis of bilinear finite element for the nonlinear Schrodinger equation on the rectangular mesh, Advances in Applied Mathematics and Mechanics, Vol. 10, Issue 2, April 2018, pp. 468-484.
42. Luoping Chen and Yanping Chen*, A novel discretization method for semilinear reaction diffusion equation, Advances in Applied Mathematics and Mechanics, Vol. 10, No. 2, April 2018, 375-389.
43. Luoping Chen, Yanping Chen*, and Xiong Liu, A two level sparse grid collocation method for semilinear stochastic elliptic equations, Computational Method in Applied Mathematics, Vol. 18, Issue 2, April 2018, pp. 165-179.
44. Haitao Leng and Yanping Chen*, Convergence and quasi-optimality of an adaptive finite element method for optimal control problems with integral control constraint, Advances in Computational Mathematics, Vol. 44, Issue 2, April 2018, pp. 367-394.
45. Chuanjun Chen, Yanping Chen*, and Xin Zhao, A posteriori error estimates of two-grid finite Vol. element methods for nonlinear elliptic problems, Computers and Mathematics with Applications, Vol. 75, Issue 5, March 2018, pp. 1756-1766.
46. Yunxia Wei, Yanping Chen*, and Xiulian Shi, A spectral collocation method for multidimensional nonlinear weakly singular Volterra integral equation, Journal of Computational and Applied Mathematics, Vol. 331, No. 15, March 2018, pp. 52-63.

47. Xiong Liu and Yanping Chen*, Convergence analysis for the Chebyshev collocation methods to Volterra integral equations with a weakly singular kernel, Advances in Applied Mathematics and Mechanics, Vol. 9, No. 6, December 2017 pp. 1506-1524.
48. Haitao Leng and Yanping Chen*, Convergence and quasi-optimality of an adaptive finite element method for optimal control problems on L^2 errors, Journal of Scientific Computing, Vol. 73, Issue 1, October 2017, pp 438–458.
49. Keyan Wang and Yanping Chen*, Two-grid mixed finite element method for nonlinear hyperbolic equations, Computers & Mathematics with Applications, Vol. 74, Issue 6, 15 September 2017, pp. 1489-1505.
50. Yanping Chen* and Fenglin Huang, Spectral method approximation of flow optimal control problems with H^1-norm state constraint, Numerical Mathematics: Theory, Methods and Applications, Vol. 10, Issue 3, August 2017, pp. 614-638.
51. Yunxia Wei and Yanping Chen*, Legendre spectral collocation method for Volterra-Hammerstein integral equation of the second kind, Acta Mathematica Scientia, Vol. 37, Issue 4, July 2017, pp. 1105-1114.
52. Shang Liu and Yanping Chen*, A new two-grid method for expanded mixed finite element solution of nonlinear reaction diffusion equations, Advances in Applied Mathematics and Mechanics, Vol. 9, No. 3, June 2017, pp. 757-774.
53. Yin Yang, Yanping Chen, Yunqing Huang, and Huayi Wei, Spectral collocation method for the time-fractional diffusion-wave equation and convergence analysis, Computers and Mathematics with Applications, Vol. 73, Issue 6, 15 March 2017, pp. 1218-1232.
54. Libin Liu and Yanping Chen*, A-posteriori error estimation in maximum norm for a strongly coupled system of two singularly perturbed convection-diffusion problems, Journal of Computational and Applied Mathematics, Vol. 313, March 2017, pp. 152–167.
55. Yin Yang and Yanping Chen, Spectral collocation methods for nonlinear Volterra integro-differential equations with weakly singular kernels, Bulletin of the Malaysian Mathematical Sciences Society, March 2017, DOI 10.1007/s40840-017-0487-7.
56. Yunxia Wei, Yanping Chen, Xiulian Shi, and Yuanyuan Zhang, Jacobi spectral collocation method for the approximate solution of multidimensional nonlinear Volterra integral equation, SpringerPlus, (2016) 5:1710. DOI 10.1186/s40064-016-3358-z
57. Hanzhang Hu, Yanping Chen*,and Jie Zhou, Two-grid method for miscible displacement problem by mixed finite element methods and finite element method of characteristics, Computers and Mathematics with Applications, Vol. 72, Issue 11, December 2016, pp. 2694–2715.
58. Yanping Chen and Libin Liu, An adaptive grid method for singularly perturbed time-dependent convection-diffusion problems, Communications in Computational Physics, Vol. 20, No. 5, November 2016, pp. 1340-1358.
59. Yanping Chen and Hanzhang Hu, Two-grid method for miscible displacement problem by mixed finite element methods and mixed finite element method of characteristics, Communications in Computational Physics, Vol. 19, No. 5, May 2016, pp. 1503-1528.
60. Yanping Chen and Keyan Wang, Two-Grid scheme for the mixed finite element approximations of nonlinear hyperbolic equations, Journal of South China Normal University (Natural Science Edition), Vol. 48, No. 3, 2016, pp. 1-6. (in Chinese)

61. Yanping Chen and Fenglin Huang, A new error estimates for elliptic optimal control problems with control and state constraints, Journal of South China Normal University (Natural Science Edition), Vol. 48, No. 5, 2016, pp. 86-91. (in Chinese)
62. Yanping Chen, Jiaoyan Zeng, and Jie Zhou, L^p error estimates of two-grid method for miscible displacement problem, Journal of Scientific Computing, Vol. 69, Issue 1, 2016,pp. 28-51.
63. Hanzhang Hu and Yanping Chen*, A conservative difference scheme for two-dimensional nonlinear Schrödinger equation with wave operator, Numerical Methods for Partial Differential Equations, Vol. 32, Issue 3, 2016, pp. 862-876.
64. Yanping Chen and Fenglin Huang, Galerkin spectral approximation of elliptic optimal control problems with H^1-norm state constraint, Journal of Scientific Computing, Vol. 67, 2016, pp. 65-83.
65. Xiulian Shi and Yanping Chen*, Spectral-collocation method for Volterra delay integro-differential equations with weakly singular kernels, Advances in Applied Mathematics and Mechanics, Vol. 8, No. 4, 2016, pp. 648-669.
66. Fenglin Huang, Yanping Chen*, and Xiulian Shi, Equivalent a posteriori error estimator of spectral approximation for control problems with integral control-state constraints in one dimension, Advances in Applied Mathematics and Mechanics, Vol. 8, No. 3, 2016, pp. 464-484.
67. Chunjuan Hou, Yanping Chen, and Zuliang Lu, A posteriori error estimates of mixed finite element solutions for fourth order parabolic control problems, Journal of Inequalities and Applications, December 2015, 2015:240.DOI: 10.1186/s13660-015-0762-9
68. Yanping Chen and Zuliang Lu, High Efficient and Accuracy Numerical Methods for Optimal Control Problems, Series in Information and Computational Science 72, Published by Science Press，November, 2015.
69. Yanping Chen, Zuliang Lu, and Libin Liu, Numerical solution for Partial Differential Equations, Series in Information and Computational Science 67, Published by Science Press，January, 2015.
70. Yanping Chen, Yunqing Huang, Wenbin Liu, and Ningning Yan, A mixed multiscale finite element method for convex optimal control problems with oscillating coefficients, Computers and Mathematics with Applications, Vol. 70, Issue 4, August 2015, pp. 297-313.
71. Zhendong Gu and Yanping Chen*, Piecewise Legendre spectral-collocation method for Volterra integro-differential equations, LMS Journal of Computation and Mathematics, Vol. 18, No. 1, 2015, pp. 231-249.
72. Jianwei Zhou and Yanping Chen*, Error estimates of spectral Legendre-Galerkin methods for the fourth-order equation in one dimension, Applied Mathematics and Computation, Vol. 268, No. 1, 2015, pp. 1217-1226.
73. Tianliang Hou and Yanping Chen*, Superconvergence of fully discrete rectangular mixed finite element methods of parabolic control problems, Journal of Computational and Applied Mathematics, Vol. 286, 2015, pp. 79-92.
74. Yanping Chen and Zhuoqing Lin, A posteriori error estimates of semidiscrete mixed finite element methods for parabolic optimal control problems, East Asian Journal on Applied Mathematics, Vol. 5, No. 1, 2015, pp. 85-108.
75. Yanping Chen*, Haitao Leng, and Libin Liu, Error analysis for a non-monotone FEM for a singularly perturbed problem with two Small parameters, Adv. Appl. Math. Mech., Vol. 7, No. 2, 2015, pp. 196-206.

76. Tianliang Hou and Yanping Chen*, Mixed discontinuous Galerkin time-stepping method for linear parabolic optimal control problems, Journal of Computational Mathematics, Vol. 33, No. 2, 2015, 158-178.
77. Yin Yang, Yanping Chen*, and Yunqing Huang, Wei Yang, Convergence analysis of Legendre-collocation methods for nonlinear Volterra type integro-equations, Advances in Applied Mathematics and Mechanics, Vol. 7, No. 1, 2015, pp. 74-88.
78. Libin Liu and Yanping Chen*, An adaptive moving grid method for a system of singularly perturbed initial value problems, Journal of Computational and Applied Mathematics, Vol. 274, 2015, pp. 11-22.
79. Fenglin Huang and Yanping Chen*, Error estimates for spectral approximation of elliptic control problems with integral state and control constraints, Computers and Mathematics with Applications, Vol. 68, No. 8, 2014, pp. 789-803.
80. Libin Liu and Yanping Chen*, A robust adaptive grid method for a system of two singularly perturbed convection-diffusion equations with weak coupling, Journal of Scientific Computing, Vol. 61, No. 1, 2014, pp. 1-16.
81. Yanping Chen and Chunmei Sun, Error estimates and superconvergence of mixed finite element methods for fourth order hyperbolic control problems, Applied Mathematics and Computation. 244 (2014), pp. 642-653.
82. Yin Yang, Yanping Chen, and Yunqing Huang, Spectral-collocation method for fractional Fredholm integro-differential equations, J. Korean Math. Soc. 51 (2014), No. 1, pp. 203-224.
83. Xianbing Luo, Yanping Chen*, Yunqing Huang, and Tianliang Hou, Some error estimates of finite Vol. element method for parabolic optimal control problems, Optimal Control Applications and Methods, Vol. 35, Issue 2, pp. 145–165, March/April 2014.
84. Yin Yang, Yanping Chen*, and Yunqing Huang, Convergence analysis of the Jacobi spectral-collocation method for fractional integro-differential equations, Acta Mathematica Scientia, 2014, 34B (3): 673–690.
85. Yanping Chen and Yijie Lin, A posteriori error estimates for control problems governed by nonlinear elliptic equations in hp-FEM, Applied Mathematics and Computation, 238 (2014) 163–176.
86. Luoping Chen and Yanping Chen*, Two-grid discretization scheme for nonlinear reaction diffusion equations by mixed finite element methods, Advances in Applied Mathematics and Mechanics, Vol. 6, No. 2, April 2014, pp. 203-219.
87. Zhiguang Xiong and Yanping Chen*, A triangular finite Vol. element method for a semilinear elliptic equation, Journal of Computational Mathematics, Vol. 32, No. 2, 2014, 152–168.
88. Yunxia Wei and Yanping Chen*, Legendre spectral collocation method for neutral and high-order Volterra integro-differential equation, Applied Numerical Mathematics, 81 (2014), 15–29.
89. Zhendong Gu and Yanping Chen*, Legendre spectral-collocation method for Volterra integral equations with non-vanishing delay, Calcolo, Vol. 51, Issue 1, March 2014,pp. 151–174.
90. Fang Wang, Yanping Chen*, and Yuelong Tang, Superconvergence of fully discrete splitting positive definite mixed FEM for hyperbolic equations, Numerical Methods for Partial Differential Equations, Vol. 30, Issue 1, January 2014, pp. 175–186.
91. Libin Liu and Yanping Chen*, Maximum norm a posteriori error estimates for a singularly perturbed differential difference equation with small delay, Applied Mathematics and Computation, Vol. 227, 15 January 2014, pp. 801–810.
92. Yongquan Dai and Yanping Chen*, Superconvergence for general convex optimal control

problems governed by semilinear parabolic equations, ISRN Applied Mathematics, Vol. 2014 (2014), pp. 1-12.

93. Yanping Chen, Tianliang Hou, and Nianyu Yi, Variational discretization for optimal control problems governed by parabolic equations, Journal of Systems Science and Complexity, Vol. 26, No. 6, December 2013, pp 902-924.
94. Yanping Chen and Zhendong Gu, Legendre spectral-collocation method for Volterra integral differential equations with non-vanishing delay, Communications in Applied Mathematics and Computational Science, Vol. 8, No. 1, December 2013, pp. 67-98.
95. Yanping Chen and Tianliang Hou, Error estimates and superconvergence of RT0 mixed methods for a class of semilinear elliptic optimal control problems, Numerical Mathematics Theory, Methods and Applications, Vol. 6, No. 4, November 2013, pp. 637-656.
96. Yanping Chen* and Libin Liu, An adaptive moving grid method for a singularly perturbed convection-diffusion problem, Journal of South China Normal University (Natural Science Edition), Vol. 45, No. 6, November 2013, pp. 1-5. (in Chinese)
97. Yuelong Tang and Yanping Chen*, Superconvergence of finite element methods for optimal control problems governed by parabolic equations with time-dependent coefficients, East Asian Journal on Applied Mathematics，Vol. 3, No. 3, August 2013, pp. 209-227.
98. Yanping Chen, Zuliang Lu, and Yunqing Huang, Superconvergence of triangular Raviart-Thomas mixed finite element methods for bilinear constrained optimal control problem, Computers and Mathematics with Applications, Vol. 66, Issue 8, 2013, pp. 1498-1513.
99. Jiming Yang, Yanping Chen, and Zhiguang Xiong, Superconvergence of a full-discrete combined mixed finite element and discontinuous Galerkin method for a compressible miscible displacement problem, Numerical Methods for Partial Differential Equations, Vol. 29, Issue 6, 2013, pp. 1801–1820.
100. Xianbing Luo, Yanping Chen*, and Yunqing Huang, A priori error estimates of Crank-Nicolson finite Vol. element method for parabolic optimal control problems, Advances in Applied Mathematics and Mechanics., Vol. 5, No. 5, 2013, pp. 688-704.
101. Xianbing Luo, Yanping Chen*, and Yunqing Huang, Some error estimates of finite Vol. element approximation for elliptic optimal control problems, International Journal of Numerical Analysis and Modeling, Vol. 10, No. 3, 2013, pp. 697–711.
102. Zhendong Gu and Yanping Chen*, Chebyshev spectral-collocation method for Volterra integral equations, Contemporary Mathematics, Vol. 586, 2013, pp. 163-170.
103. Yanping Chen, Luoping Chen, and Xiaochun Zhang, Two-grid method for nonlinear parabolic equations by expanded mixed finite element methods, Numerical Methods for Partial Differential Equations, Vol. 29, Issue 4, 2013, pp. 1238–1256.
104. Tianliang Hou and Yanping Chen*, Superconvergence for elliptic optimal control problems discretized by RT1 mixed finite elements and linear discontinuous elements, Journal of Industrial and Management Optimization, Vol. 9, No. 3, 2013, pp. 631-642.
105. Yunxia Wei and Yanping Chen*, A spectral method for neutral Volterra integro-differential equation with weakly singular kernel, Numerical Mathematics: Theory, Methods and Applications, Vol. 6, No. 2, 2013, pp. 424-446.
106. Xianbing Luo, Yanping Chen*, and Yunqing Huang, A priori error estimates of finite Vol. element method for hyperbolic optimal control problems, Science in China Series A: Mathematics, Vol. 5 No. 56, 2013, pp. 901–914.
107. Weishan Zheng and Yanping Chen*, A spectral method for second order Volterra

integro-differential equations with pantograph delay, Advances in Applied Mathematics and Mechanics, Vol. 5, No. 2, 2013, pp. 131-145.

108. Tianliang Hou and Yanping Chen*, Superconvergence of RT1 mixed finite element approximations for elliptic control problems, Science in China Series A: Mathematics, Vol. 56, No. 2, 2013, pp. 267–281.
109. Yuelong Tang and Yanping Chen*, Superconvergence analysis of fully discrete finite element methods for semilinear parabolic optimal control problems, Frontiers of Mathematics in China, Vol. 8, No. 2, 2013, pp. 443–464.
110. Yanping Chen, Xianjuan Li， and Tao Tang, A note on Jacobi spectral-collocation methods for weakly singular Volterra integral equations with smooth solutions, Journal of Computational Mathematics, Vol. 31, No. 1, 2013, pp. 47–56.
111. Zuliang Lu and Yanping Chen*, A priori error estimates of mixed finite element methods for general semilinear elliptic optimal control problems, Computational Mathematics and Modeling, Vol. 24, Issue 1, 2013, pp. 114-135.
112. Yanping Chen, Zuliang Lu, and Min Fu, A posteriori error estimates for mixed finite element approximation of nonlinear quadratic optimal control problems, Optimization Methods and Software, Vol. 28, No. 1, 2013, pp. 37-53.
113. Yanping Chen, Tianliang Hou, and Weishan Zheng, Error estimates and Superconvergence of mixed finite element methods for optimal control problems with low regularity, Advances in Applied Mathematics and Mechanics, Vol. 4, No. 6, 2012, pp. 751-768.
114. Yunxia Wei and Yanping Chen*, Legendre spectral collocation methods for pantograph Volterra delay-integro-differential equations, Journal of Scientific Computing, Vol. 53, No. 3, 2012, pp. 672-688.
115. Yuelong Tang and Yanping Chen*, Variational discretization for parabolic optimal control problems with control constraints, Journal of Systems Science and Complexity, Vol. 25, 2012, pp. 880-895.
116. Yanping Chen, Yunqing Huang, and Tianliang Hou, Richardson extrapolation and defect correction of mixed finite element methods for elliptic optimal control problems, J. Korean Math. Soc. 49 (2012), No. 3, pp. 549-569.
117. Yuelong Tang and Yanping Chen*, Recovery type a posteriori error estimates of fully discrete finite element methods for general convex parabolic optimal control problems, Numerical Mathematics: Theory, Methods and Applications, Vol. 5, No. 4, 2012, pp. 573-591.
118. Yanping Chen and Tianliang Hou, Superconvergence and L^{∞} -error estimates of RT1 mixed methods for semilinear elliptic control problems with an integral constraint, Numerical Mathematics: Theory, Methods and Applications, Vol. 5, No. 3, 2012, pp. 423-446.
119. Zuliang Lu, Yanping Chen*, and Weishan Zheng, A posteriori error estimates of lowest order Raviart-Thomas mixed finite element methods for bilinear optimal control problems, East Asia Journal on Applied Mathematics, Vol. 2, No. 2, 2012, pp. 108-125.
120. Yanping Chen, Zuliang Lu, and Ruyi Guo, Error estimates of triangular mixed finite element methods for quasilinear optimal control problem, Front. Math. China, 2012, 7(3): 397–413.
121. Jiming Yang and Yanping Chen, A posteriori error analysis for a fully discrete discontinuous Galerkin approximation to a kind of reactive transport problems, Journal of Systems Science and Complexity, (2012) 25: 398-409.
122. Liu Yang, Yanping Chen*, and Xiaojiao Tong, A note on local sensitivity analysis for parametric optimization problem, Pacific Journal of Optimization, Vol. 8, No. 1, 2012, pp. 185-195.

123. Yanping Chen and Zuliang Lu, L^{∞}-estimates of mixed finite element methods for general nonlinear optimal control problems, Journal of Systems Science and Complexity, Vol. 25, No. 1, 2012, pp. 105-120.
124. Jiming Yang, and Yanping Chen, Superconvergence of a combined mixed finite element and discontinuous Galerkin approximation for an incompressible miscible displacement problem, Applied Mathematical Modelling, 36 (2012), pp. 1106–1113.
125. Yunxia Wei and Yanping Chen*, Convergence analysis of the spectral methods for weakly singular Volterra integro-differential equations with smooth solutions, Advances in Applied Mathematics and Mechanics, Vol. 4, No. 1, 2012, pp. 1-20.
126. Jianmei Yuan, Yanping Chen*, and Yuliang Mao, Electronic transport in a new type nano-junction: Carbon atomic chain inserted into a Carbon nanotube, Journal of Computational and Theoretical Nanoscience, Vol. 9, 2012, pp. 1-4.
127. Luoping Chen and Yanping Chen*, Two-grid method for nonlinear reaction-diffusion equations by mixed finite element methods, Journal of Scientific Computing, Vol. 49, No. 3, 2011, pp. 383-401.
128. Yanping Chen, Study of highly efficient, extremely accurate numerical methods for partial differential equations, Journal of South China Normal University (Natural Science Edition), Vol. 43, No. 4, November 2011, pp. 1-8. (in Chinese)
129. Qin Zhou, Yanping Chen*, and Yin Yang, Two improved algorithms and implementation for a singularly perturbed problem on moving meshes, Journal of Systems Science and Complexity, Vol. 24, No. 6, 2011, pp. 1232-1240.
130. Yunxia Wei and Yanping Chen*, Convergence analysis of the Legendre spectral collocation methods for second order Volterra integro-differential equations, Numer. Math. Theor. Meth. Appl., 4 (2011), pp. 419–438.
131. Xiaoqing Xing and Yanping Chen, L^{∞} -error estimates for a quadratic optimal control problem by mixed finite element methods, Natural Science Journal of Xiangtan University, Vol. 33, No. 3, 2011, pp. 13-17. (in Chinese)
132. Tianliang Hou, Yanping Chen*, and Yunqing Huang, A posteriori error estimates of mixed methods for quadratic optimal control problems governed by parabolic equations, Numerical Mathematics: Theory, Methods and Applications, Vol. 4, No. 4, 2011, pp. 439-458.
133. Yanping Chen and Yuelong Tang, Numerical methods for constrained elliptic optimal control problems with rapidly oscillating coefficients, East Asia Journal on Applied Mathematics, Vol. 1, No. 3, 2011, pp. 235-247.
134. Yanping Chen, Nianshi Xia, and Nianyu Yi, A Legendre Galerkin spectral method for optimal control problems, Journal of Systems Science and Complexity, Vol. 24, No. 4, 2011, pp. 663-671.
135. ChunjuanHou, Yanping Chen* and Zuliang Lu, Superconvergence property of finite element methods for parabolic optimal control problems, Journal of Industrial and Management Optimization, Vol. 7, No. 4, 2011, pp. 927-945.
136. Yanping Chen, Fenglin Huang, Nianyu Yi, and Wenbin Liu, A Legendre Galerkin spectral method for optimal control problems governed by Stokes equations, SIAM J. Numer. Anal., 49 (2011), pp. 1625-1648.
137. Jiming Yang and Yanping Chen, Superconvergence of a combined mixed finite element and discontinuous Galerkin method for a compressible miscible displacement problem, Acta Mathematicae Applicatae Sinica (English Series), Vol. 27, No. 3, 2011, pp. 481-494.
138. Liu Yang, Yanping Chen*, Xiaojiao Tong, and Chunlin Deng, A new smoothing Newton

method for solving constrained nonlinear systems of equations, Applied Mathematics and Computation, 217 (2011), pp. 9855–9863.

139. Yanping Chen and Yijie Lin, A posteriori error estimates for *hp* finite element solutions of convex optimal control problems, Journal of Computational and Applied Mathematics, 235 (2011), pp. 3435–3454.
140. Xiaoqing Xing and Yanping Chen*, Superconvergence of mixed methods for optimal control problems governed by parabolic equations, Advances in Applied Mathematics and Mechanics, Vol. 3, No. 4, 2011, pp. 401-419.
141. Wenqiang Wang, Yanping Chen, Mean-square stability of semi-implicit Euler method for nonlinear neutral stochastic delay differential equations, Applied Numerical Mathematics, Vol. 61, 2011, pp. 696-701.
142. Wenqiang Wang and Yanping Chen，Numerical stability of Heun methods for nonlinear stochastic delay differential equations, Mathematica Numerica Sinica, Vol. 33, No. 1, 2011, pp. 69-76. (in Chinese)
143. Kang Deng, Yanping Chen*, and Zuliang Lu, Higher order triangular mixed finite element methods for semilinear quadratic optimal control problem, Numerical Mathematics: Theory, Methods and Applications, Vol. 4, No. 2, 2011, pp. 180-196.
144. Libin Liu, Huanwen Liu, and Yanping Chen, Polynomial spline approach for solving second-order boundary-value problems with Neumann conditions, Applied Mathematics and Computation, 217 (2011), pp. 6872-6882.
145. Yanping Chen and Zuliang Lu, A posteriori error estimates for semilinear boundary control problems, DD19 Proceedings, published by Springer Verlag in the series Lecture Notes in Computational Science and Engineering, 2011, pp. 455-462.
146. Jiming Yang and Yanping Chen, A priori error of a combined mixed finite element and discontinuous Galerkin method for compressible miscible displacement with molecular diffusion and dispersion, Journal of Computational Mathematics, Vol. 29, No. 1, 2011, pp. 93-110.
147. Yanping Chen, Lingli Liu and Zuliang Lu, A posteriori error estimates of mixed methods for parabolic optimal control problems, Numerical Functional Analysis and Optimization, Vol. 31, Issue 10, 2010, pp. 1135 – 1157.
148. Jiming Yang and Yanping Chen, A priori error analysis of a discontinuous Galerkin approximation for a kind of compressible miscible displacement problems, Science China Mathematics, Vol. 53, No. 10, 2010, pp. 2679-2696.
149. Jianwei Zhou, Yanping Chen*, and Yongquan Dai, Superconvergence of triangular mixed finite elements for optimal control problems with an integral constraint, Applied Mathematics and Computation, 217 (2010), Issue 5, pp. 2057-2066.
150. Yanping Chen and Zuliang Lu, Error estimates for parabolic optimal control problem by fully discrete mixed finite element methods, Finite Elements in Analysis and Design, Vol. 46, No. 11, 2010, pp. 957-965.
151. Yanping Chen, Li Dai, and Zuliang Lu, Superconvergence of rectangular mixed finite element methods for constrained optimal control problem, Adv. Appl. Math. Mech., Vol. 2, No. 1, 2010, pp. 56-75.
152. Wenqiang Wang and Yanping Chen, Mean-square stability of Euler method for linear neutral stochastic delay differential equations, Mathematica Numerica Sinica, Vol. 32, No. 2, 2010, pp. 206-212. (in Chinese)
153. Wenqiang Wang and Yanping Chen, Mean-square stability of milstein methods for neutral

stochastic delay differential equations, Mathematica Applicata, Vol. 23, No. 3, 2010, pp. 548-553. (in Chinese)

154. Yanping Chen and Zuliang Lu, Error estimates of fully discrete mixed finite element methods for semilinear quadratic parabolic optimal control problems, Computer Methods in Applied Mechanics and Engineering, Vol. 199, No. 23, 2010, pp. 1415–1423.
155. Yanping Chen, Yunqing Huang, Wenbin Liu, and Ningning Yan, Error estimates and superconvergence of mixed finite element methods for convex optimal control problems, Journal of Scientific Computing, Vol. 42, No. 3, 2010, pp. 382–403.
156. Xiaoqing Xing, Yanping Chen*, and Nianyu Yi, Error estimates of mixed finite element methods for quadratic optimal control problems, Journal of Computational and Applied Mathematics, Vol. 233, 2010, pp. 1812-1820.
157. Yanping Chen and Tao Tang, Convergence analysis of the Jacobi spectral-collocation methods for Volterra integral equations with a weakly singular kernel, Mathematics of Computation, Vol. 79, No. 269, 2010, pp. 147–167.
158. Jiming Yang and Yanping Chen, An efficient adaptive algorithm based on upwind difference for a singularly perturbed two-point boundary value problem, Numerical Mathematics A Journal of Chinese Universities, Vol. 31, No. 3, 2009, pp. 277-288.(in Chinese)
159. Yanping Chen, Peng Luan, and Zuliang Lu, Analysis of two-grid methods for nonlinear parabolic equations by expanded mixed finite element methods, Advances in Applied Mathematics and Mechanics, Vol. 1, No. 6, 2009, pp. 830-844.
160. Yanping Chen and Tao Tang, Spectral methods for weakly singular Volterra integral equations with smooth solutions, Journal of Computational and Applied Mathematics, Vol. 233, 2009, pp. 938-950.
161. Yanping Chen, Yao Fu, Huanwen Liu, Yongquan Dai, and Huayi Wei, Recovery a posteriori error estimates for general convex elliptic optimal control problems subject to pointwise control constraints, Journal of Computational Mathematics, Vol. 27, No. 4, 2009, 543-560.
162. Yanping Chen and Yongquan Dai, Superconvergence for optimal control problems governed by semi-linear elliptic equations, Journal of Scientific Computing, Vol. 39, 2009, pp. 206–221.
163. Huanwen Liu, Libin Liu, and Yanping Chen, A semi-discretization method based on quartic splines for solving one-space-dimensional hyperbolic equations, Applied Mathematics and Computation, Vol. 210, 2009, pp. 508–514.
164. Liu Yang, Yanping Chen*, and Xiaojiao Tong, Smoothing Newton-like method for the solution of nonlinear systems of equalities and inequalities, Numer. Math. Theor. Meth. Appl., Vol. 2, No. 2, 2009, pp. 224-236.
165. Zuliang Lu and Yanping Chen*, A posteriori error estimates of triangular mixed finite element methods for semilinear optimal control problems, Advances in Applied Mathematics and Mechanics, Vol. 1, No. 2, 2009, pp. 242-256.
166. Zuliang Lu and Yanping Chen, L^{∞} -error estimates of triangular mixed finite element methods for optimal control problems governed by semilinear elliptic equations, Numerical Analysis and Applications, Vol. 2, No. 1, 2009, pp. 1–13.
167. Yanping Chen and Li Li, L^{p} error estimates of two-grid schemes of expanded mixed finite element methods, Applied Mathematics and Computation, 209 (2009), pp. 197–205.
168. Yin Yang, Yanping Chen, and Yunqing Huang, An efficient moving mesh method for a model of turbulent flow in circular tubes, Journal of Computational Mathematics, Vol. 27, No. 2-3, 2009, 388–399.
169. Zhengsu Wan, Yanping Chen*, and Yunqing Huang, Legendre spectral Galerkin methods for

second-kind Volterra integral equations, Frontiers of Mathematics in China, Vol. 4, No. 1, 2009, 181–193.

170. Zuliang Lu, Yanping Chen, and Hongwei Zhang, A priori error analysis of mixed methods for nonlinear quadratic optimal control problems, Lobachevskii Journal of Mathematics, Vol. 29, No. 3, 2008, pp. 164–174.
171. Liu Yang and Yanping Chen, A new globally convergent Levenberg-Marquardt method for solving nonlinear systems of equations, Numer. Math. Sinica., Vol. 30, No. 4, 2008, 388-396.（in Chinese）
172. Liu Yang, Yanping Chen, and Xiaojiao Tong, A smoothing method for solving the nonlinear system of equalities and inequalities, Journal of Yunnan University (Natural Sciences Edition),Vol. 30, No. 6, 2008, pp. 553-558.（in Chinese）
173. Yanping Chen, Yunqing Huang, and Nianyu Yi, A posteriori error estimates of spectral method for optimal control problems governed by parabolic equations, Science in China Series A: Mathematics, Vol. 51, No. 8, 2008, pp. 1376-1390.
174. Yanping Chen, Nianyu Yi, and Wenbin Liu, A Legendre Galerkin spectral method for optimal control problems governed by elliptic equations, SIAM Journal On Numerical Analysis, Vol. 46, No. 5, 2008, pp. 2254-2275.
175. Yanping Chen, Superconvergence of quadratic optimal control problems by triangular mixed finite elements, International Journal for Numerical Methods in Engineering, Vol. 75, No. 8, 2008, pp. 881-898.
176. Xiaoqing Xing and Yanping Chen*, Error estimates of mixed methods for optimal control problems governed by parabolic equations, International Journal for Numerical Methods in Engineering, Vol. 75, No. 6, 2008, pp. 735-754.
177. Zhiguang Xiong and Yanping Chen*, A rectangular finite Vol. element method for a semilinear elliptic equation, Journal of Scientific Computing, Vol. 36, No. 2, 2008, pp. 177-191.
178. Yanping Chen, Superconvergence of mixed finite element methods for optimal control problems, Mathematics of Computation, Vol. 77, 2008, pp. 1269-1291.
179. Zhiguang Xiong, Yanping Chen, and Yan Zhang, Convergence of FEM with interpolated coefficients for semilinear hyperbolic equation, Journal of Computational and Applied Mathematics, Vol. 214, 2008, pp. 313-317.
180. Yanping Chen and Wenbin Liu, A posteriori error estimates for mixed methods of miscible displacement problems, International Journal for Numerical Methods in Engineering, Vol. 73, No. 3, 2008, pp. 331-343.
181. Yuliang Mao, Jianxin Zhong, and Yanping Chen, First principles study of the band structure and dielectric function of (6,6) single-walled zinc oxide nanotube, Physica E, 40 (2008), 499–502.
182. Xiaoqing Xing and Yanping Chen*, L^{∞} -error estimates for general optimal control problem by mixed finite element methods, International Journal of Numerical Analysis & Modeling, Vol. 5, No. 3, 2008, pp. 441-456.
183. Yanping Chen and Wenbin Liu, A posteriori error estimates for mixed finite element solutions of convex optimal control problems, Journal of Computational and Applied Mathematics, 211 (2008), pp. 76-89.
184. Yanping Chen and Jiming Yang, A posteriori error estimation for a fully discrete discontinuous Galerkin approximation to a kind of singularly perturbed problems, Finite Elements in Analysis and Design, 43 (2007), pp. 757-770.
185. Huanwen Liu, Sunkang Chen, and Yanping Chen, Bivariate C^1 cubic spline space over

Powell-Sabin's type-1 refinement, Journal of Information & Computational Science, Vol. 4, No. 1, 2007, pp. 151-160.

186. Zhiguang Xiong and Yanping Chen*, Finite Vol. element method with interpolated coefficients for two-point boundary value problem of semilinear differential equations, Computer Methods in Applied Mechanics and Engineering, Vol. 196, 2007, pp. 3798-3804.
187. Shuguang Gong, Yanping Chen, and Yunqing Huang, Applications of EFG methods for structural shape optimization of linear elasticity problems, Mechanical Science and Technology, Vol. 26, No. 3, 2007, pp. 373-377.
188. Yanping Chen, Huanwen Liu, and Shang Liu, Analysis of two-grid methods for reaction diffusion equations by expanded mixed finite element methods, International Journal for Numerical Methods in Engineering, Vol. 69, No. 2, 2007, pp. 408-422.
189. Jan H. Brandts, Yanping Chen, and Julie Yang, A note on least-squares mixed finite elements in relation to standard and mixed finite elements, IMA Journal of Numerical Analysis, Vol. 26, No. 4, 2006, pp. 779-789.
190. Yanping Chen and Fangyun Xue, Superconvergence of miscible displacement by mixed finite element and a characteristics method, the proceedings of the seventh Japan-China Joint Seminar on Numerical Mathematics, Science Press, 2006, pp. 19-32.
191. Shuguang Gong, Yanping Chen, and Yunqing Huang, Shape optimization and sensitiveity analysis based on element-free Galerkin methods, Chinese Journal of Mechanical Engineering, Vol. 42, No. 6, 2006, pp. 199-204.
192. Shuguang Gong, Yanping Chen, and Yunqing Huang, Application research of meshless method in shape optimization, China Mechanical Engineering, Vol. 17, No. 12, 2006, pp. 1290-1293.
193. Jiming Yang and Yanping Chen*, A unified a posteriori error analysis for discontinuous Galerkin approximations of reactive transport equations, Journal of Computational Mathematics, Vol. 24, No. 3, 2006, pp. 425-434.
194. Yanping Chen, Uniform convergence analysis of finite difference approximations for singular perturbation problems on an adapted grid, Advances in Computational Mathematics, Vol. 24, No. 1-4, 2006, pp. 197-212.
195. Yanping Chen and Wenbin Liu, Error estimates and superconvergence of mixed finite element for quadratic optimal control, International Journal of Numerical Analysis & Modeling, Vol. 3, No. 3, 2006, pp. 311-321.
196. Jan H. Brandts and Yanping Chen, Superconvergence of least-squares mixed finite elements, International Journal of Numerical Analysis & Modeling, Vol.3, No.3, 2006, pp. 303-310.
197. Yanping Chen, A posteriori error estimates of mixed methods for two phase flow problems, Contemporary Mathematics, Vol. 383, 2005, pp. 203-211.
198. Shuguang Gong, Yanping Chen, and Yunqing Huang, Study on design sensitivity analysis based on EFG method in mechanical shape optimization, proceedings of the international conference on mechanical engineering and mechanics, Oct. 26-28, 2005, pp. 876-881.
199. Shuguang Gong, Yanping Chen, and Lianwen Zhang, CAE analysis and test research on asphalt transfer vehicle structure, Construction Machinery and Equipment, Vol. 36, No. 11, 2005, pp. 22-25.
200. LanXu, Shuguang Gong, Yanping Chen, GuilanXie, Qiudong He, and Weinan Cao, Structural shape optimization and modal analysis for axial fan hub by finite element method, Modern Manufacturing Engineering, No. 12, 2005, pp.3-6.
201. Liu Yang and Yanping Chen, On the convergence of a new Levenberg-Marquardt method, Chinese Journal of Numerical Mathematics and Applications, Vol. 27, No. 2, 2005, pp. 79-87;

Numer. Math. Sinica., Vol. 27, No. 1, 2005, pp. 55-62.
202. Jiming Yang and Yanping Chen, High accuracy algorithm for solving a singularly perturbed two-point boundary value problem with adaptive upwind scheme, Natur. Sci. J. Zhejiang Univ., Vol. 32, No. 5, 2005, pp. 513-518.
203. Jiming Yang and Yanping Chen, A moving-mesh algorithm for a class of singularly perturbed problem, Natural Science J of Xiangtan University, Vol. 26, No. 3, 2004, pp. 24-29. (in Chinese)
204. Hua Chen and Yanping Chen, Discontinuous Galerkin method for compressible miscible displacement problem, Natural Science J of Xiangtan University, Vol. 26, No. 2, 2004, pp. 119-126.
205. Yanping Chen, Superconvergence for elliptic problems by least-squares mixed finite element, Advances in Scientific Computing and Applications, Yayan Lu, Weiwei Sun, Tao Tang, Science Press, 2004, pp. 104-116.
206. Jan H. Brandts and Yanping Chen, An alternative to the least-squares mixed finite element method for elliptic problems, Numerical Mathematics and Advanced Applications, M. Feistauer, V. Dolesi, P. Knobloch, and K. Najzar (Eds.), Springer Verlag, 2004, pp. 169-175.
207. Shuguang Gong, Yanping Chen, and Guilan Xie, A homogenization method for structural optimization of perforated plates, Mechanical Science and Technology, Vol. 23, No. 8, 2004, pp. 995-998.
208. GuilanXie, Ping Zhang, Shuguang Gong, and Yanping Chen, Study on effective elastic constants of tubesheets homogenization-based theory, Chinese Journal of Applied Mechanical, Vol. 21, No. 3, 2004, pp.129-133.
209. Yanping Chen and Manping Zhang, Superconvergence of least-squares mixed finite element for symmetric elliptic problems, Applied Numerical Mathematics, Vol. 48, No. 2, 2004, pp. 195-204.
210. Yanping Chen, Uniform pointwise convergence for a singularly perturbed problem using arc-length equidistribution, Journal of Computational and Applied Mathematics. Vol.159, No.1, 2003, pp. 25-34.
211. Yanping Chen, Yunqing Huang, and Dehao Yu, A two-grid method for expanded mixed finite-element solution of semilinear reaction-diffusion equations, International Journal for Numerical Methods in Engineering, Vol. 57, No. 2, 2003, pp. 193-209.
212. Yanping Chen and Dehao Yu, Superconvergence of least-squares mixed finite element for second-order elliptic problems, Journal of Computational Mathematics, Vol. 21, No. 6, 2003, pp. 825-832.
213. Yanping Chen and Julie Yang, Superconvergence of least-squares mixed finite element for elliptic problems on triangulation, Numer. Math. J. Chinese Univ., Vol. 12, No. 2, 2003, pp. 214-225.
214. Jan H. Brandts, Yanping Chen, and Julie Yang, Analysis of least-squares mixed finite elements in terms of standard and mixed elements, UvA Numerica Preprint 2003 (08):1-20.
215. Jianzhou Liu, Yunqing Huang, and Yanping Chen, Some estimates for eigenvalues and singular value of schur complements of normal matrices, Proceedings of the 2001' International Conference on Numerical Optimization and Numerical Linear Algebra, Science Press, 2003, pp. 133-138.
216. Yanping Chen and Wenbin Liu, Posteriori error estimates for mixed finite elements of a quadratic control problem, Recent Progress in Computational and Applied PDEs, Kluwer Academic, 2002, pp. 123-134.

217. Yanping Chen and Manping Zhang, Superconvergence of least-squares mixed finite element approximations over quadrilaterals, Recent Progress in Computational and Applied PDEs, Kluwer Academic, 2002, pp. 135-144.
218. Manping Zhang and Yanping Chen, Superconvergence of least-squares mixed finite element solutions over quadrilaterals, Natural Science J of Xiangtan University, Vol. 24, No. 1, 2002, pp. 4-7. (in Chinese)
219. Julie Yang and Yanping Chen, Superconvergence of least-squares mixed finite elements for elliptic problems on triangulation, Natural Science J of Xiangtan University, Vol. 24, No. 1, 2002, pp. 8-12. (in Chinese)
220. Yanping Chen and Yunqing Huang, Improved error estimates for mixed finite element for nonlinear hyperbolic equations: the continuous-time case, Journal of Computational Mathematics, Vol. 19, No. 4, 2001, pp. 385-392.
221. Yanping Chen, Yunqing Huang, and Zuhe Shen, Least-squares mixed finite element approximation of degenerate elliptic problem, Chinese J of Numer. Math. & Appl., Vol. 23, No. 2, 2001, pp. 19-28; Numer. Math. Sinica. Vol. 23, No. 1, 2001, pp. 87-94.
222. Yanping Chen, Superconvergence of the full-discrete F.E.M. for compressible miscible displacement: the full tensor case, Numer. Math. J. Chinese Univ. Vol. 9, No. 1, 2000, pp. 71-82.
223. Yanping Chen, Zuhe Shen, and Yunqing Huang, Error estimates for the full-discrete mixed FEM for nonlinear hyperbolic problems, Numer. Math. J. Chinese Univ., Vol. 9, No. 2, 2000, pp. 181-192.
224. Yanping Chen, Yunqing Huang, and Zuhe Shen, The mixed finite element methods for nonlinear hyperbolic equation, Numer. Math. J. of Chinese Universities, Vol. 22, No. 1, 2000, pp. 63-69. (in Chinese)
225. Yanping Chen, Yunqing Huang, and Zuhe Shen, Least-squares mixed finite element methods for incompressible miscible displacement, Numer. Math. J. of Chinese Universities, Vol. 22, No. 3, 2000, pp. 272-278. (in Chinese)
226. Yanping Chen, Mixed finite element methods for a strongly nonlinear parabolic problem, Journal of Computational Mathematics, Vol. 17, No. 2, 1999, pp. 209-220.
227. Yanping Chen, A posteriori error estimates of finite element method for parabolic problems, Acta. Math. Sci., Vol. 19, No. 4, 1999, pp. 1-9.
228. Yanping Chen, Global superconvergence of mixed finite element methods for the wave equation, J. Sys. Sci. & Math. Scis., Vol. 12, No. 2, 1999, pp. 159-165.
229. Yanping Chen and Yunqing Huang, The full-discrete mixed finite element methods for nonlinear hyperbolic equation, Comm. In Nonli. Sci. & Numer. Simul., Vol. 3, No. 3, 1998, pp. 152-155.
230. Yanping Chen and Yunqing Huang, The superconvergence of mixed finite element methods for nonlinear hyperbolic equation, Comm. In Nonli. Sci. & Numer. Simul., Vol. 3, No. 3, 1998, pp. 155-158.
231. Yanping Chen, Superconvergence in the simulation of miscible displacement, J. Sys. Sci. & Math. Scis., Vol. 18, No. 3, 1998, pp. 328-334. (in Chinese)
232. Yanping Chen, Application of superconvergence to a model for compressible miscible displacement, Numer. Math. J. of Chinese Universities, Vol. 7, No. 1, 1998, pp. 25-37.
233. Yanping Chen and Yunqing Huang, Superconvergence of a time-discretization procedure for compressible miscible displacement, Natural Science J of Xiangtan University (the Special Issue for 40th anniversary of Xiangtan University), Vol. 20, No. 3, 1998, pp. 41-50.

234. Yanping Chen, Superconvergence to the full discrete FEM for compressible miscible displacement with dispersion, CSIAM'98, 1998, pp. 592-597. (in Chinese)
235. Yanping Chen, The mixed finite element methods for some initial-boundary problems, Ph.D thesis, Shandong University, 1997.
236. Yanping Chen, Superconvergence of a fully discrete procedure for two-phase displacement problems, Natural Science J of Shandong University, Vol. 32, No. 1, 1997, pp. 1-8.
237. Yanping Chen, Superconvergence of the mixed finite element methods for semilinear elliptic problem, CSIAM'96, 1996, pp. 517-524. (in Chinese)
238. Yanping Chen and Yunqing Huang, The superconvergence and asymptotic exact a posteriori error estimates of finite element on K-mesh, Chin. J of Numer. Math. & Appl., Vol. 16, No. 4, 1994, pp. 66-74; Numer. Math. Sinica., Vol. 16, No. 3, 1994, pp. 278-285.
239. Yanping Chen and Yunqing Huang, Global high accuracy of finite element solutions to singular nonsymmetric two point boundary value problems, Numer. Math. J. of Chinese Universities, Vol. 16, No. 3, 1994, pp. 271-278. (in Chinese)
240. Yanping Chen, Asymptotic expansion with higher order remainder for the finite element approximation of eigenvalues, Natural Science J of Xiangtan University, Vol. 16, No. 2, 1994, pp. 137-147.
241. Yunqing Huang and Yanping Chen, A multilevel iterative method for finite element solutions to singular two-point boundary value problems, Natural Science J of Xiangtan University, Vol. 16, No. 1, 1994, pp. 23-26. (in Chinese)
242. Yanping Chen, Asymptotic expansions of finite element solutions to singular nonlinear problems, Natural Science J of Xiangtan University, Vol. 15, No. 3, 1993, pp. 28-32. (in Chinese)
243. Yanping Chen, Successive asymptotic expansions and midpoint extrapolation formulas for finite element solutions and their gradients, Natural Science J of Xiangtan University, Vol. 15, Suppl., 1993, pp. 97-105. (in Chinese)
244. Yunqing Huang and Yanping Chen, A lower bound estimate of condition number for finite element equations on highly refined meshes, Natural Science J of Xiangtan University, Vol. 15, Suppl., 1993, pp. 92-96. (in Chinese)
245. Yanping Chen, Asymptotic expansions of finite element solutions to singular two-point boundary value problems, Natural Science J of Xiangtan University, Vol. 14, No. 1, 1992, pp. 8-15. (in Chinese)

Conference:

1. International Conference on Domain Decomposition Methods, DDM XXVI, mini-symposium on "Two-grid Method and Its Applications", December 7-11, 2020, The Chinese University of Hong Kong, Hong Kong, China.
2. The International Conference on Spectral and High Order Methods, mini-symposium proposal on Spectral methods for fractional differential equations, July 6-10, 2020, Vienna, Austria.(invited speaker)
3. The 13th AIMS Conference on Dynamical Systems, Differential Equations and Applications, June 5-9, 2020, Atlanta, USA. (invited session organizer)
4. The workshop on “Computational solution and applications of Volterra integral and integro-differential equations”, May 20-23, 2020, Hong Kong Baptist University, Hong Kong, China.(plenary talk)
5. The workshop on “Advanced finite element methods for nonlinear PDEs”, Tsinghua Sanya

International Mathematics Forum (TSIMF), March 8-13, 2020, Sanya. (invited speaker)

6. The workshop on “Nonlinear Problems: Numerics and Applications”, Tsinghua Sanya International Mathematics Forum (TSIMF), January 11-16, 2020, Sanya.
7. The seventh China-Germany workshop on Computational Mathematics, Kiel University, Germany, August 19-23, 2019. (invited speaker)
8. Computational Multiscale Methods, July 28- August 3, 2019, Oberwolfach, Germany. (invited speaker)
9. The 9th International Congress on Industrial and Applied Mathematics, minisymposium on numerical methods for PDE-constrained optimal control problems, July 15-19, 2019, Valencia, Spain. (invited speaker)
10. Workshop on Computation of Kinetic Transport and Related Problems, June 21-22, 2019, Shanghai Jiao Tong University, Shanghai.（invited speaker）
11. International Conference on Mathematical Modeling and Numerical Methods, May 30-June 2, 2019, Qingdao. (invited speaker)
12. International Workshop on Current Trends in Numerical PDEs and Applications, December 21-22, 2018, Xi'an.
13. The International Workshop on PDE-Constrained Optimization, Optimal Control & Applications, December 10-14, 2018, Sanya. (invited speaker)
14. The International Conference on Spectral and High-Order Methods (ICOSAHOM 2018), a mini-symposium on Spectral and High-Order Methods for Singular and Nonlocal Problems, July 9-13, 2018, Imperial College London, UK. (invited speaker)
15. The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, organize a special session: Special Session SS59: Efficient Algorithms for Flow and Transport in Porous Media, Taipei, July 5-9, 2018. (invited session organizer)
16. The workshop on "Modeling and Simulation of Interface-related Problems", the Institute for Mathematical Sciences (IMS) of NUS, Singapore, from 30 April to 3 May 2018. (invited speaker)
17. The Workshop on Computational Mathematics, The Hong Kong Polytechnic University, Hong Kong, Dec. 9-12, 2017. (invited speaker)
18. IAS Focused Program on Scientific Computing, The Hong Kong University of Science and Technology, Hong Kong, Dec. 4-8, 2017.
19. The sixth China-Germany workshop on Computational Mathematics, Tongji University, Shanghai, China, Oct. 9-13, 2017. (invited speaker)
20. The International Workshop on Computational Mathematics and Scientific Computing, June 28 - July 2, 2017, Ocean University of China, Qingdao, China. (invited speaker)
21. The 10th International Conference on Computational Physics (ICCP10), session on High-Order Methods and Their Applications in Computational Physics, Cotai District, Macao SAR, China, January16-20, 2017.
22. The International Workshop on Advances in Numerical PDEs and Fast Solvers, December 16-18, 2016, Wuhan University. (Plenary speaker)
23. The 20th IMACS World Congress, mini-symposium on Integral Equations/ Spectral methods”, December 10-14, 2016, Xiamen, China. (mini-symposium organizer)
24. The Workshop on “Mathematical Analysis of Metamaterials and Applications”, Tsinghua Sanya International Mathematics Forum (TSIMF), December 5-9, 2016, Sanya.
25. The 11th bi-annual Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, USA on July 1-5, 2016. (invited speaker)

26. The 11th ICOSAHOM - International Conference on Spectral and High-Order Methods, Rio de Janeiro, Brazil from June 27th to July 1st, 2016. (invited speaker)
27. The 10th international conference on scientific computing and applications (ICSCA2016), at the Fields Institute, Toronto, Canada, June 6 - 10, 2016. (invited speaker)
28. The Workshop on Numerical Methods of Nonlinear Problems at Tsinghua Sanya International Mathematics Forum (TSIMF), January 11-15, 2016. (invited)
29. The fifth workshop in the series on Spectral Methods and Their Applications, October 9-12, 2015, Jiangsu Normal University.(invited speaker)
30. The Satellite Meeting of ICIAM 2015, Recent Developments in Computational Mathematics and Applications, Jinggangshan, China, August 3-8, 2015.
31. The International Conference on Computational Mathematics and Sciences at Xi'an Jiaotong University, China, June 6-8, 2015. (invited speaker)
32. The 5th International Conference on Scientific Computing and Partial Differential Equations (SCPDE14) On the Occasion of EitanTadmor's 60th Birthday, minisymposiumon High Order Numerical Methods for Integral Equations, Hong Kong Baptist University, 8-12 December 2014. (minisymposium organizer, invited speaker)
33. The Workshop on 'Recent Advances in Numerical Analysis', November 14-16, Shanghai Jiao Tong University.(invited speaker)
34. The International Conference on Spectral and High Order Methods, mini-symposium proposal on Spectral and High Order Methods for Fractional and Integral Differential Equations, June 23-27, 2014, Salt Lake City, USA.(invited speaker)
35. The Sino-French conference on Computational and Applied Mathematics, June 2-6, 2014， Xiamen University, Xiamen, China. (invited speaker)
36. The International Workshop on the Finite Element/Spectral Methods， May 16-18, 2014， Shanghai Normal University, Shanghai, China. (invited speaker)
37. The Second International Conference on Engineering and Computational Mathematics, 16-18 December 2013, Hong Kong polytechnic University. (invited speaker)
38. Fourth Workshop on Recent Advances on Spectral Methods and Related Applications, November 2-4, 2013, Xiamen University, China
39. The conference on Numerical Methods and related problems for Optimal Control problems, July 14-17, 2013, Beijing. (invited speaker)
40. The 1st Chongqing Workshop on Computational and Applied Mathematics, 30 May – 2 June 2013, Chongqing University. (invited speaker)
41. International Conference on Computational Science On the Occasion of Professor Benyu Guo's 70th Birthday, July 16-20, 2012, Shanghai Normal University, Shanghai. (invited speaker)
42. The 8th International Conference on Scientific Computing and Applications, April 1-4, 2012, University of Nevada Las Vegas, Las Vegas. (invited speaker)
43. The fourth International Conference on Scientific Computing and Partial Differential Equations, Hong Kong Baptist University, 5-9 December 2011. (invited speaker)
44. The fourth China-Germany workshop on Computational Mathematics, South China Normal University, Guangzhou, China, Sep. 26-30, 2011. (invited speaker, Local Organizing Committee)
45. International Conference on Partial Differential Equations & Numerical Analysis, Aug. 22-24, 2011, Guiyang, China. (invited speaker)
46. International Conference on Frontiers of Numerical PDEs, Guangzhou, China, August 2-4, 2011.

47. International Symposium on Computational Science, Engineering and Finance, July 28－31, 20 11，Kunming, Chnia.
48. Third Workshop on Recent Advances on Spectral Methods and Related Applications, Shanghai Normal University, Shanghai, China, July 14-17, 2011. (invited speaker)
49. International Conference on Interdisciplinary Applied and Computational Mathematics, a minisymposium on discontinuous Galerkin method, June 17-21, 2011, Zhejiang University, Hangzhou, China. (minisymposium invited speaker)
50. The 20th International Conference on Domain Decomposition Methods, mini-symposium entitled: "Optimal Solvers from Multi-grid and Two-grid to One-grid and No-Grid", on February 7-11, 2011, UC San Diego, in La Jolla, California, United States.
51. Workshop on Computational Mathematics and Scientific Computing, September 9 - 11, 2010, Institute of Computational Mathematics, Beijing.
52. The First Cross-straits Workshop on Computational Mathematics, Xiamen University, China, Aug. 3-6, 2010. (invited speaker)
53. The Workshop on Numerical Methods for PEDs, on July 28th-August 1st, 2010, at Sun Yat-Sen University, Guangzhou. (invited speaker)
54. Workshop on Multilevel and Adaptive Methods, Peking University, August 28-30, 2009.
55. The 19th International Conference on Domain Decomposition Methods, August 17-22, 2009, Zhangjiajie of China. (Local Organizing Committee)
56. 2009 Annual Meeting of Chinese Mathematical Society, April 21-24, 2009, Xiamen University. (invited speaker)
57. The third International Conference on Scientific Computing and Partial Differential Equations, Hong Kong Baptist University, 8-12 December 2008. (invited speaker)
58. International Workshop on Numerical Analysis and Computational methods for Functional Differential and Integral Equations, Hong Kong Baptist University, Hong Kong，December 3-6, 2007. (invited speaker)
59. The second China-Germany workshop on Computational Mathematics, Hangzhou, China， Oct. 9-13, 2007. (invited speaker)
60. International Conference on Partial Differential Equations and Their Applications, South China Normal University, Guangzhou， December 27, 2006 – January 2, 2007. (invited participator, session chair)
61. International Conference on Multilevel Iterative Methods, Beijing University, August 14-18, 2006. (local organizing committee, session chair)
62. The 2nd International Conference on Scientific Computing and Partial Differential Equations and The First East Asia SIAM Symposium, Hong Kong Baptist University, 12-16 December 2005. (minisymposium speaker)
63. The 8th European Multigrid Conference on Multigrid, Multilevel and Multiscale Methods, Scheveningen The Hague, The Netherlands, September 27-30, 2005.
64. The third International Workshop on Meshfree Methods for Partial Differential Equations held at the University Bonn on Sep. 12-15, 2005.
65. The first China-Germany workshop on Computational Mathematics on Sep. 5-10, 2005, Berlin, Germany. (invited talk)
66. The Eighth U.S. National Congress on Computational Mechanics, July 25-27, 2005, Austin, US. (minisymposium speaker)
67. The seventh Japan-China Joint Seminar on Numerical Mathematics, August 16-20, 2004, Zhangjiajie, China. (invited speaker, Local Organizing Committee)

68. The conference on “Recent Advances in Adaptive Computation”, May 24-28, 2004, Hangzhou, China. (invited speaker)
69. The conference on “Superconvergence and A Posteriori Error Estimates in Finite Element Methods”, May 31- June 2, 2004, Changsha, China. (invited speaker)
70. The third International Congress of Chinese Mathematicians， December 17-22, 2004, HKCU, Hong Kong.
71. The CMS Summer 2003 meeting, June 14-16, University of Alberta, Edmonton, Canada. (invited speaker)
72. The third International Workshop on Scientific Computing and Applications, January 6-9, 2003, City University of Hong Kong, Hong Kong.
73. The sixth Japan-China Joint Seminar on Numerical Mathematics, Aug.5-9, 2002, Tsukuba University, Japan.
74. International Conference on Scientific Computing and Partial Differential Equations On the Occasion of Stanley Osher's 60th birthday. December 12-15, 2002, Lam Woo Conference Center, Hong Kong Baptist University, Hong Kong.
75. The second International Symposium on Computing Science, December 20-23, 2002, Guangzhou, School of MCS, Sun Yat-sen Univ., China.
76. International Symposium on Computational & Applied PDEs, July 1-7, 2001, Zhangjiajie, China.
77. The third International Conference on Numerical Linear Algebra and Optimization, Dunhuang, June, 2001.

Last updated: Jan. 10, 2020