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个人简介：男，湖南省隆回人，博士，教授。

学术兼职：福建省数学会理事.

教育经历：

1979年9月—1982年7月，邵阳学院数学教育专业。

1994年9月—1997年7月，湖南大学应用数学系，硕士研究生毕业，获硕士学位

2000年9月—2003年7月，中国科学院数学与系统科学研究院，博士研究生毕业，获博士学位

工作经历：

- 1982年7月—1994年8月 湖南省隆回第十三中学
- 1997年7月—2000年8月 长沙理工大学
- 2003年7月—2005年1月 桂林电子科技大学
- 2005年2月—2006年1月 浙江师范大学
- 2006年2月—现在 福建师范大学

学术交流：

- 2004年2月—2004年3月 到北京飞箭软件有限公司访问；
- 2004年6月—2006年6月 在华中科技大学做博士后研究；
- 2008年1月—2008年3月 到新加坡南洋理工大学访问。

研究兴趣：

- 数值最优化
- 非线性方程组数值解
- 格子Boltzmann方法
- 偏微分方程数值解及其应用
- 变分不等式与互补问题的理论与方法

科研项目：

■在研的项目

随机变分不等式与互补问题的迭代算法研究，国家自然科学基金项目（编号：11071041），项目负责人，起止日期：2011.1—2013.12。

■已结题的项目

1、对称锥互补问题数值算法研究，福建省自然科学基金项目（编号：2009J01002），项目负责人，起止日期：2009.6—2011.3。

2、基于高性能计算的复杂流体的格子Boltzmann方法，福建省资助省属高校项目（项目编号：2008F5019），项目负责人，起止日期：2008.5—2011.6。

3、麦克斯韦方程组快速数值算法研究，国家自然科学基金项目（编号：10661005），项目负责人，起止日期：2007.1.1—2009.12.31。

4、基于非规范势的电磁场麦克斯韦方程组快速数值算法研究，中国博士后科学基金（编号：2004036133），项目负责人，起止日期：2004年9月—2006年6月。

5、对称有界区域上的托普里兹算子，国家自然科学基金（编号：10361003）， 主要参加者（排名第二），起止日期：2004年1

月—2006年12月。

6、电磁场麦克斯韦方程组的快速数值算法研究，广西自然科学基金项目（编号：桂科自0640165），项目负责人，起止日期：2006年—2009年。

7、3D涡流场A-Φ电磁势方法及其解耦技术，广西自然科学基金（批准号:桂科基0448075），项目负责人，起止日期：2004年5月—2007年6月。

教学：

■ 本科：数值计算方法；数学建模；高性能计算等。

■ 硕士：非线性数值分析；数值最优化；非线性互补理论与算法；偏微分方程数值解等。

论文著作：

一、著作

1. 非稳态电磁场的A-φ方法，科学出版社，2008.7

2. 现代数值计算方法（MATLAB版），科学出版社，2008.6

3. 最优化方法及其Matlab程序设计，科学出版社，2010.8

二、论文

1. Bilian Chen, Changfeng Ma, A new smoothing Broyden-like method for solving nonlinear complementarity problem with a P0-function,Journal of Global Optimization, Online First, 3 Jan., 2011 (DOI 10.1007/ s10898-010-9640-7)

2. Xuebin Wang, Changfeng Ma, Meiyan Li, A globally and superlinearly convergent quasi-Newton method for general box constrained variational inequalities without smoothing approximation, Journal of Global Optimization, Online First, 13 December 2010(DOI 10.1007 /s10898-010-9629-2)

3. Cangfeng Ma, A lattice BGK model for simulating solitary waves, International Journal of Modern Physics B, 2011, 25(4) 589-597.

4. Xuebin Wang, Changfeng Ma, Meiyan Li, A smoothing trust region method for NCPs based on the smoothing generalized Fischer-Burmeister function, Journal of Computational Mathematics, 29(2011) 261-286.

5. Linjie Chen, Changfeng Ma, Simulating of KdV-Burgers equation with lattice BGK model, International Journal of Modern Physics B, 25 (2011) 433–440

6. Linjie Chen, Changfeng Ma, A modified smoothing and regularized Newton method for monotone second-order cone complementarity problems，Computers and Mathematics with Applications 61 (2011) 1407–1418.

7. Yajun Xie, Changfeng Ma, A smoothing Levenberg-Marquardt algorithm for solving a class of stochastic linear complementarity problem, Applied Mathematics and Computation，217 (2011) 4459–4472.

8. Bilian Chen, Changfeng Ma, Superlinear/quadratic smoothing Broyden-like method for the generalized nonlinear complementarity problem, Nonlinear Analysis: Real World Applications 12 (2011) 1250–1263

9. Changfeng Ma, A new smoothing and regularization Newton method for P0-NCP, Journal of Global Optimization, 2010, 48(2): 241-261.

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11. Chan He, Changfeng Ma, A smoothing self-adaptive Levenberg–Marquardt algorithm for solving system of nonlinear inequalities, Applied Mathematics and Computation, 216(2010):3056–3063.

12. Jia Tang，Changfeng Ma，Zhe Du， A predictor-corrector smoothing newton method for solving the mixed complementarity problem with a P0-function, International Journal of Computer Mathematics, 2010, 87(11): 2503–2519

13. Huilin Lai, Changfeng Ma, The lattice Boltzmann model for the second-order Benjamin-Ono equations, Journal of Statistical Mechanics: Theory and Experiment, 2010,04,P04011.

14. Sanyang Liu , Jia Tang, Changfeng Ma, A new modified one-step smoothing Newton method for solving the general mixed complementarity problem, Applied Mathematics and Computation, 216(2010):1140-1149.

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16. Jia Tang, Sanyang Liu, Changfeng Ma, One-step smoothing Newton method for solving the mixed complementarity problem with a P0 function, Applied Mathematics and Computation, 215 (2008) 2326–2336. (SCI, EI)

17. Huilin Lai, Changfeng Ma, A higher order lattice BGK model for simulating some nonlinear partial differential equations, Sci China Ser G-Phys Mech Astron, 2009, 52(7):1053-1061. (SCI,EI)

18. Huilin Lai, Changfeng Ma, Lattice Boltzmann method for the generalized Kuramoto Sivashinsky equation, Physica A 388(2009):1405-1412. (SCI,EI)

19. Changfeng Ma, Lattice BGK simulations of double diffusive natural convection in a rectangular enclosure in the presences of magnetic field and heat source, Nonlinear Analysis: Real World Applications, 2009,10(5): 2666–2678. (SCI,EI)

20. Changfeng Ma, Desheng Wang and Yu Wang, The finite element analysis of a fractional-step method for the time-dependent linear elasticity equations. Nonlinear Analysis: Real World Applications, 10 (2009) 1210–1219. (SCI, EI)

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22. Xiaohong Chen, Changfeng Ma, A Regularization Smoothing Newton Method for Solving Nonlinear Complementarity Problem, Nonlinear Analysis: Real World Applications, 10 (2009):1702–1711. (SCI,EI)

23. Changfeng Ma, The finite element analysis of a decoupled T-ψ scheme for solving eddy-current problems, Applied Mathematics and Computation, 205 (2008) 352–361. (SCI, EI)

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32. Changfeng Ma, Xiaohong Chen, Jia Tang, On convergence of a smoothing Broyden-like method for P_0-NCP, Nonlinear Analysis: Real World Applications, 9(2008):899–911. (SCI,EI)

33. Changfeng Ma, Desheng Wang, Finite element analysis of an A-phi method for time-dependent Maxwell's equations based on explicit-magnetic-field scheme, Applied Mathematics and Computation, 190(2007):1273–1283. (SCI,EI)

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37. Changfeng Ma, Lihua Jiang, Some research on Levenberg-Marquardt method for the nonlinear equations, Applied Mathematics and Computation, 184 (2007): 1032–1040. (SCI, EI)

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39. Ma Chang-Feng, Shi Bao-Chang, Lattice Bhatnagar-Gross-Krook simulations of hydromagnetic double-diffusive convection in a rectangular enclosure with opposing temperature and concentration gradients, Chinese Physics Letters, 2006, Vol.23(7): 1842–1845. (SCI, INSPEC)

40. Changfeng Ma, Finite element method for time-dependent Maxwell's equations based on a explicit-magnetic-field scheme, Journal of Computational and Applied Mathematics, 2006, Vol.194(2), pp. 409–424 (SCI, EI)

41. Changfeng Ma, Convergence of finite element A-φ method for solving time-dependent Maxwell's equations，Applied Mathematics and Computation 176 (2006) 621–631 (SCI, EI)

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44. Changfeng Ma, A New Lattice Boltzmann Model for KdV-Burgers Equation, Chinese Physics Letters, 2005, 22(9): 2313-2315. (SCI，INSPEC)

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46. Changfeng Ma, Tong Kang, A Jacobian Smoothing Method For Box Constrained Variational Inequality Problems, Applied Mathematics and Computation, 2005，162(3),1397-1429.(SCI, EI)

47. Changfeng Ma, A new smoothing quasi-Newton method for nonlinear complementarity problems, Applied Mathematics and Computation, 2005 Vol.171(2), pp. 807-823 (SCI, EI)

48. Changfeng Ma, Convergence of an alternating A-φ scheme for quasi-magnetostatic eddy current problem, Journal of Computational Mathematics, 2004 Vol. 22(5), 661-670. (SCI)

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50. Changfeng Ma, A finite-element approximation of a quasi-magnetostatic 3D eddy current model by fractional-step A-ψ scheme，Mathematical and Computer Modelling，2004，Vol.39 (4-5):567-580. (SCI)

51. Chang-Feng Ma, Pu-yan Nie and Guo-ping Liang, A New Smoothing Equations Approach to the Nonlinear Complementarity Problems, Journal of Computational Mathematics, 2003 Vol. 21(6), 747-758. (SCI, EI)

52. Changfeng Ma, Guo-ping Liang and Xin-mei Chen, A Positive Interior-Point Algorithm for Nonlinear Complementarity Problems. Applied Mathematics and Mechanics, 2003 Vol. 24(3), 355-36 2. (SCI)

53. Tong Kang, Changfeng Ma and Guo-ping Liang, H-based A-Φ approaches of approximating eddy current problem by way of solving systems inside and outside the conductor. Applied Mathematics and Computation，2004 Vol. 155(1), 1-24. (SCI, EI)

54. Changfeng Ma, Guo-ping Liang and Shao-peng Liu, A New Smoothing Approximation Method for Solving Box Constrained Variational Inequalities, Journal of Computational Mathematics, 2002 Vol. 20(5), 533- 542. (SCI)

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■在读：

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