

个人简历

个人信息

姓名: 游雄 性别: 男
民族: 汉 政治面貌: 党员
学历: 研究生 毕业院校: 南京大学
学位: 博士 职称: 教授
从事专业: 应用数学与计算数学
研究领域: 微分方程保结构计算、数学生物学与计算系统生物学
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教育背景

1987	本科	苏州大学	数学系
2001	硕士	南京理工大学	应用数学系
2009	博士	南京大学	数学系

工作经历

1987.8—1998.8	江苏省姜堰市大伦中学	一级教师
2001.—	南京农业大学理学院	讲师、副教授、教授、博导
2005.1—5	美国 Illinois 大学(UIUC)	访问学者
2010—2011	南京大学	博士后

科研项目

- 主持: 国家自然科学基金面上项目: 基因调控网络振子的结构理论与保结构模拟研究 (批准号: 11171155, 起止时间: 2012年—2015年)
- 参加: 国家自然科学基金面上项目: 高振荡量子动力系统的保结构算法与应用 (批准号: 11271186, 起止时间: 2013年—2016年, 第一参加人)
- 参加: 中央高校基本业务费自主创新重点研究项目: 细胞酶促反应动力学的定性分析与高效数值模拟 (批准号: KYZZ201424, 起止时间: 2014年—2016年, 第二参加人)
- 参加: 中央高校基本业务费自主创新重点研究项目: 具有负反馈环的非线性基因调控振荡系统的保结构数值模拟研究 (批准号: Y0201100265, 起止时间: 2012年—2015年, 第一参加人)
- 参加: 教育部高校博士点专项基金项目: 量子动力系统的保结构算法 (批准号: 20100091110033, 起止时间: 2011年—2013年, 第一参加人)

近期著作

专著

Xingyuan Wu, **Xiong You** and Bin Wang, Structure-Preserving Algorithms for Oscillatory Differential Equations, Springer, 2013.

期刊论文

1. Ruqiang Zhang, Wenjuan Jiang, Julius Osato Ehigie, Yonglei Fang and **Xiong You***, Novel phase-fitted symmetric splitting methods for chemical oscillators, Journal of Mathematical Chemistry (2016) 1–21, in Press. DOI: 10.1007/s10910-016-0684-x
2. Yonglei Fanga, Yanping Yang and **Xiong You***, Revised trigonometrically fitted two-step hybrid methods with equation dependent coefficients for highly oscillatory problems, Journal of Computational and Applied Mathematics (2016), in Press. Available online 17 September 2016.
3. Yanwei Zhang, **Xiong You** and Yonglei Fang, Exponentially fitted multi-derivative linear methods for the resonant state of the Schrödinger equation, Journal of Mathematical Chemistry (2016) 1-15, in Press. DOI:10.1007/s10910-016-0683-y
4. Zhaoxia Chen, Ruqiang Zhang, Wei Shi and **Xiong You***, New optimized symmetric and symplectic trigonometrically fitted RKN methods for second order oscillatory differential equations, International Journal of Computer Mathematics (2016) in Press. DOI: 10.1080/00207160.2016.1167197
5. Yanping Yang, Yonglei Fanga and **Xiong You***, Runge–Kutta–Nyström methods with equation dependent coefficients and reduced phase lag for oscillatory problems (2016), in Press. DOI: 10.1007/s10910-016-0685-9
6. Yanping Yang, Yonglei Fang, **Xiong You** and Bin Wang, Novel Exponentially Fitted Two-Derivative Runge-Kutta Methods with Equation-Dependent Coefficients for First-Order Differential Equations, Discrete Dynamics in Nature and Society 2016 (2016) Article ID 9827952, 6 pages.
7. Zhaoxia Chen, Juan Li, Ruqiang Zhang and **Xiong You***, Exponentially Fitted Two-Derivative Runge-Kutta Methods for Simulation of Oscillatory Genetic Regulatory Systems, Computational & Mathematical Methods in Medicine 2015 (2015) Article ID 689137, 14 pages.

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8. Zhaoxia Chen, Zeyu Qiu, Juan Li and **Xiong You***, Two-derivative Runge-Kutta-Nystrom methods for second-order ordinary differential equations, *Numerical Algorithms* 70 (2015) 897–927
 9. **Xiong You***, Yuanmei Zhou, Xiaohao Cheng, A novel family of P-stable symmetric extended linear multistep methods for oscillators, *Applied Mathematics and Computation* 249 (2014) 597–610
 10. **Xiong You***, Yonglei Fang, Jinxi Zhao, Special extended Nyström tree theory for ERKN methods, *Journal of Computational and Applied Mathematics* 263 (2014) 478–499.
 11. **Xiong You**, Jinxi Zhao, Hongli Yang, Yonglei Fang, Xinyuan Wu*, Order conditions for RKN methods solving general second-order oscillatory systems, *Numerical Algorithms* 66 (2014) 147–176.
 12. Yonglei Fang, **Xiong You***, Qinghe Ming, Trigonometrically fitted two-derivative Runge-Kutta methods for solving oscillatory differential equations, *Numerical Algorithms* 65 (2014) 651–667.
 13. **Xiong You***, Xueping Liu, Ibrahim Hussein Musa, Splitting Strategy for Simulating Genetic Regulatory Networks, *Computational and Mathematical Methods in Medicine* 2014 (2014) Article ID 683235, 9 pages.
 14. Yonglei Fang, **Xiong You***, New optimized two-derivative Runge-Kutta type methods for solving the radial Schrödinger equation equation, *Journal of Mathematical Chemistry* 52 (2014) 240–254.
 15. Yanwei Zhang, Haitao Che, Yonglei Fang, **Xiong You***, A new Trigonometrically Fitted Two-Derivative Runge-Kutta Method for the Numerical Solution of the Schrödinger Equation and Related Problems, *Journal of Applied Mathematics* 2013 (2013) Article ID 937858, 9 pages.
 16. **Xiong You***, Zhaoxia Chen, Director integrators of Runge-Kutta type for special third-order ordinary differential equations, *Applied Numerical Mathematics* 74 (2013) 128–150.
 17. Yonglei Fang, **Xiong You***, Qinghe Ming, A new phase-fitted modified Runge-Kutta pair for the numerical solution of the radial Schrödinger equation

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- equation, *Applied Mathematics and Computation* 224 (2013) 432–441.
18. Yonglei Fang, **Xiong You***, Qinghe Ming, Exponentially fitted two-derivative Runge-Kutta methods for the Schrodinger equation, *International Journal of Modern Physics C* 24 (2013) Article ID 1350073, 9 pages.
19. **Xiong You***, Bingzhen Chen, Symmetric and symplectic exponentially fitted Runge-Kutta methods for Hamiltonian problems, *Mathematics and Computers in Simulation* 94 (2013) 76–95.
20. **Xiong You***, Zhaoxia Chen, New explicit adapted Numerov methods for second-order oscillatory differential equations, *Applied Mathematics and Computation* 219 (11) (2013) 6241–6255.
21. Yonglei Fang, **Xiong You***, Qinghe Ming, New optimized explicit modified RKN methods for the numerical solution of the Schrödinger equation, *Journal of Mathematical Chemistry* 51 (2013) 390–411.
22. **Xiong You***, Limit-cycle-preserving simulation of gene regulatory oscillators, *Discrete Dynamics in Nature and Society*, 2012 (2012) Article ID 673296, 22 pages.
23. Yonglei Fang, **Xiong You***, Zhaoxia Chen, New phase fitted and amplification fitted Numerov-type methods for periodic IVPs with two frequencies, *Abstract and Applied Analysis*, 2012 (2012), Article ID 742585, 15 pages.
24. Zhaoxia Chen, **Xiong You***, Xin Shu, Mei Zhang, A new family of phase-fitted and amplification-fitted Runge-Kutta type methods for oscillators, *Journal of Applied Mathematics* 2012 (2012) Article ID 236281, 24 pages.
25. Xinyuan Wu*, Bin Wang, Wei Shi, **Xiong You**, On extended RKN integrators for multidimensional perturbed oscillators with applications, *Applied Mathematical Modeling* 36 (2012) 1504–1513.
26. Zhaoxia Chen, **Xiong You***, Wei Shi, Zhongli Liu, Symmetric and symplectic ERKN methods for oscillatory Hamiltonian systems, *Computer Physics Communications* 183 (2012) 86–98.
27. Jiyong Li, Bin Wang, **Xiong You**, Xinyuan Wu*, Two-step extended RKN methods for oscillatory systems, *Computer Physics Communications* 182 (2011) 2486–2507.

28. **Xiong You***, Yonghui Zhang, Jinxi Zhao, Trigonometrically-fitted Scheifele two-step methods for perturbed oscillators, *Computer Physics Communications* 182 (2011) 1481–1490.