



建校60周年
1950—2010

司建国

数学系六十周年

• 司建国

1958年12月生；教授、博士生导师。



• 学术经历

2003—，山东大学数学学院，教授

1996—2003，滨州学院，教授

1991—1995，滨州学院，副教授

• 行政职务与学术兼职

1996—2003，滨州学院数学系主任

1991—1995，滨州学院数学系副主任

1996—，美国《数学评论》特邀评论员，美国数学会会员

2005—，山东数学学会微分方程专业委员会副理事长

2011—，《Pure Mathematics》编委

• 访问经历

2002. 9—2002. 12，韩国仁荷大学、江南大学和中南大学，访问教授

1999. 3—1999. 7，中国科学院数学研究所，访问教授

1991. 3—1992. 3，中国科学院成都分院数学研究所，访问学者

• 学习经历

2001. 9—2003. 12，四川大学数学学院博士研究生，获理学博士学位

1985. 9—1987. 1，华东师范大学应用数学研究生班学习

1976. 9—1978. 9，滨州学院数学系学习

• 项目

2012—2015，带拟周期强迫的非线性Hamilton偏微分方程拟周期解的存在性研究，国家自然科学基金面上项目，负责人

2009—2011，迭代泛函微分方程中的小除数问题和解析解的存在性与稳定性，国家自然科学基金面上项目，负责人

2006—2009，迭代泛函微分方程中的解析理论及数值解的研究山东省自然科学基金面上项目，负责人

2010—2013，带拟周期强迫的非线性Hamilton偏微分方程拟周期解的存在性，山东省自然科学基金面上项目，负责人

• 论著

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2. Hanssmann H, Jianguo Si, Quasi-periodic solutions and stability of the equilibrium for quasi-periodically forced planar reversible and Hamiltonian systems under the Bruno condition, *Nonlinearity*, 23 (2010), 555-577.
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4. Jianguo Si, H.Y.Zhao, Small Divisor Problem in Dynamical Systems and Analytic Solutions of a q-Difference Equation with a Singularity at the Origin, *Results In Math.*, 58(2010),337-353.
5. L.H.Zhang, Jianguo Si, New soliton and periodic solutions of (1+2)-dimensional nonlinear Schrodinger equation with dual-power law nonlinearity, *Communication in nonlinear science*

6. M. Zhang, Jianguo Si, Quasi-periodic solutions of nonlinear wave equations with quasi-periodic forcing, *Physica D* , 238 (2009) , 2185-2215.
7. Jianguo Si, M.Zhang, Construction of convex solutions for the second type of Feigenbaum's functional equations, *Science in China, Series A-Mathematics*, 52(2009),1617-1638 (中文版: 《中国科学》, A辑, 39 (2009) , 49-70.)
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10. Liu lingxia, Jianguo Si, Analytic solutions of a polynomial-like iterative functional equation near resonance, *J. Math. Res. Exp.*, 29(2009), 737-744.
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19. Jian-Guo Si, Weinian Zhang, Analytic solutions of a q-difference equation and an application to iterative functional equation , *J. Diff. Equ. Appl.* 10(11)(2004), 955-962.
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31. Jian-Guo Si, Xin-Ping wang, Analytic solutions of a second-order functional differential equation with a state dependent delay, *Results Math.*, 39(2000), 345-352.
32. Jian-Guo Si , Xin-Ping Wang, Sui Sun Cheng , Nondecreasing and convex \$C^2\$-solutions of

- an iterative functional Differential equation, Aequations Math., 60(2000), 38-56.
33. Jian-Guo Si, Analytic solutions of a nonlinear functional differential equation with proportional delays, Demonstratio Math. 37(4)(2000)
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• 研究兴趣

常微分方程定性理论、哈密顿动力系统、KAM理论、迭代泛函微分方程的解析理论.

• 教学情况

为本科生开设课程: 数学分析、常微分方程、泛函分析、实变函数、复变函数、高等代数、近世代数.

为研究生开设课程: 复动力系统、动力系统基础、微分方程的定性理论、应用微分方程、偏微分方程、微分方程专题、无穷维动力系统.

• 已毕业研究生 (以入学时间为序)

博士研究生: 张敏、赵侯宇

硕士研究生: 赵侯宇、李先龙、刘杰、张亭亭、王莉莉、刘同波、马明环、刘凌霞、庄翠霞、焦爱军、胡明才、张劲、张萍萍、胡平、高丽、刘静

• 在读研究生 (以入学时间为序)

博士研究生: 脱秋菊、张立华、芮杰、邱汶华、郗强、刘杰、张亭亭

硕士研究生: 李斌、李峰巍、李燕、程红玉、娄兆伟

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