姓名：李树光

教学职位：副教授

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教育背景

俄罗斯莫斯科鲍曼国立技术大学 物理数学副博士（2021.04）
哈尔滨工程大学 理学硕士（2015.04）
山东农业大学 理学学士（2012.07）

俄罗斯莫斯科鲍曼国立技术大学超级计算机工程建模中心
助教（2019.09-2020.12）

研究领域

偏微分方程数值解法，计算流体力学，计算流变学，复合材料力学建模以及非线性连续介质力学等。主要关于有限差分法，渐近均质化方法和有限元方法。

代表性成果

论文类：

(1) Dimitrienko Y.I., **Li Shuguang***, Niu Yi. Study on the dynamics of a nonlinear dispersion model in both 1D and 2D based on the fourth-order compact conservative difference scheme. *Mathematics and Computers in Simulation*, 2021, 182: 661-689. (SCI)

(2) Dimitrienko Y.I., **Li Shuguang***. Numerical simulation of MHD natural convection heat transfer in a square cavity filled with Carreau fluids under magnetic fields in different directions. *Computational and Applied Mathematics*, 2020, 39(4): 1-26. (SCI)

(3) Димитриенко Ю.И., **Шугуан Ли***. Моделирование проницаемости неньютоновских жидкостей в трехмерных композитных структурах на основе метода асимптотической гомогенизации. *Математическое моделирование и численные методы*, 2019, № 23(3), с. 19–38. (ВАК)

(4) **Li Shuguang***. Numerical study of a conservative weighted compact difference scheme for the symmetric regularized long wave equations. *Numerical Methods for Partial Differential Equations*, 2019, 35(1): 60-83. (SCI)

(5) **Li Shuguang***, Wu Xiaogang. L∞ error bound of conservative compact difference scheme for the generalized symmetric regularized long-wave (GSRLW) equations. *Computational and Applied Mathematics*, 2018, 37(3): 2816-2836. (SCI)

(6) Димитриенко Ю.И., **Шугуан Ли***. Конечно-элементное моделирование неизотермического стационарного течения неньютоновской жидкости в сложных областях. *Математическое моделирование и численные методы*, 2018, № 18(2), с. 70–95. (ВАК)

(7) **Li Shuguang***. Numerical analysis for fourth-order compact conservative difference scheme to solve the 3D Rosenau-RLW equation. *Computers & Mathematics with Applications*, 2016, 72(9): 2388-2407. (SCI)

(8) **Li Shuguang**,Wang Jue*.Long-time convergence of numerical approximations for 2D GBBM equation. *Computational Mathematics and Mathematical Physics*, 2016, 56(3): 426-436. (SCI)

(9) Wang Huan, **Li Shuguang**, Wang Jue. A conservative weighted finite difference scheme for the generalized Rosenau-RLW equation. *Computational and Applied Mathematics*, 2017, 36(1): 63-78. (SCI)

(10) Wang Huan, Wang Jue*, **Li Shuguang**. A new conservative nonlinear high-order compact finite difference scheme for the general Rosenau-RLW equation. *Boundary Value Problems*, 2015, 2015(1): 77. (SCI)

(11) **Li Shuguang***, Wang Jue*, Luo Yuesheng. A fourth-order conservative compact finite difference scheme for the generalized RLW equation. *Mathematical Problems in Engineering*, 2015, 2015. (SCI)

(12) Dimitrienko Y.I., **Li Shuguang***. Modeling of non-Newtonian fluid flows in porous textile structures under RTM technologies//Journal of Physics: Conference Series. IOP Publishing, 2021, 1990(1): 012053. (EI)

(13) Dimitrienko Y.I., **Li Shuguang***. Modeling the nonlinear permeability of porous composite structures with non-Newtonian fluids//IOP Conference Series: Materials Science and Engineering. IOP Publishing, 2020, 934(1): 012014. (EI)

(14) Dimitrienko Y.I., **Li Shuguang***. Mathematical Simulation

of local transfer for non-Newtonian uid in porous fabrics//Journal of Physics: Conference Series. IOP Publishing, 2019, 1392(1): 012023. (EI)

(15) Dimitrienko Y.I., **Li Shuguang***. Modeling of Non-Newtonian resin flows in Composite Microstructures//IOP Conference Series: Materials Science and Engineering. IOP Publishing, 2019, 683(1): 012008. (EI)

代表性项目

(1) 2020 年第六届中国国际"互联网+"大学生创新创业大赛总决赛（国际参赛项目）铜奖

(2) 2020 年国际论坛«Ключевые тренды в композитах: наука и технологии»优秀会议报告

(3) 2019 年国际会议«Математика в приложениях»优秀会议报告

(4) 2015 年"国家建设高水平大学公派研究生项目"赴俄罗斯专业人才培养计划

荣誉奖励

(5) 2014 年哈尔滨工程大学"优秀共青团员"称号荣誉称号

(6) 2014 年哈尔滨工程大学理学院"三好学生"称号荣誉称号

(7) 2014 年第六届国际大学生雪雕大赛"优秀志愿者"荣誉称号

(8) 2013 年第五届国际大学生雪雕大赛"优秀志愿者"荣誉称号

社会兼职

Computers & Mathematics with Applications,
Numerical Algorithms,
Numerical Methods for Partial Differential Equations,
Applied Numerical Mathematics,
Applied Mathematics and Computation,
Mathematical Methods in the Applied Sciences,
Journal of Nonlinear Mathematical Physics
等国际期刊审稿人

其他