

# 谭兵

2023年12月毕业（数学博士）

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## 个人简介

谭兵，四川广安人，现为电子科技大学博士三年级研究生，预计2023年12月（提前）毕业。所修专业为应用数学，研究方向为变分不等式及相关问题的迭代算法与应用。攻博期间在本领域权威刊物发表SCI科研论文40余篇，Web of Science平台显示H指数为8，论文总被引200余次；第一作者SCI论文28篇，5篇第一作者论文入选ESI高被引论文。现担任美国数学会MathSciNet的评论员和10余个SCI期刊的审稿人。博士期间获博士国家奖学金（2次）和校学术新秀等荣誉奖励。

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## 研究方向

变分不等式和不动点问题的迭代算法及应用

分裂问题和包含问题的迭代算法及应用

Hadamard流行上的算法研究

## 教育经历

2020.09–2023.12 博士（硕博连读），电子科技大学，专业：应用数学，导师：肖义彬教授。

毕设题目：变分不等式和包含问题的加速算法研究

2022.03–2023.02 博士联合培养，University of British Columbia（不列颠哥伦比亚大学，全球排名前50），

导师：Prof. Shawn Wang，留学国：加拿大。

受国家留学基金委资助前往UBC数学系联合培养一年，学习非线性分析与优化领域的前沿知识

2018.09–2020.09 硕士（推免），电子科技大学，专业：应用数学，导师：李颂孝教授、秦小龙教授。

2014.09–2018.07 本科，西南石油大学，专业：数学与应用数学，获校优秀毕业生、校优秀毕业设计。

## 出版物

1. **Bing Tan**, Xiaolong Qin\*, Jen-Chih Yao. Strong convergence of self-adaptive inertial algorithms for solving split variational inclusion problems with applications. *Journal of Scientific Computing*. 2021, 87(1), Article ID 20. (中科院二区，中国数学会应用数学T2期刊)
2. **Bing Tan**, Xiaolong Qin\*, Jen-Chih Yao. Strong convergence of inertial projection and contraction methods for pseudomonotone variational inequalities with applications to optimal control problems. *Journal of Global Optimization*. 2022, 82(3), 523–557. (中科院三区，中国数学会应用数学T2期刊)
3. **Bing Tan**, Xiaolong Qin\*, Jen-Chih Yao. Two modified inertial projection algorithms for bilevel pseudomonotone variational inequalities with applications to optimal control problems. *Numerical Algorithms*. 2021, 88(4), 1757–1786. (中科院二区，中国数学会应用数学T2期刊)
4. **Bing Tan**, Xiaolong Qin\*, Sun Young Cho. Revisiting subgradient extragradient methods for solving variational inequalities. *Numerical Algorithms*. 2022, 90(4), 1593–1615. (中科院三区，中国数学会应用数学T2期刊)
5. **Bing Tan**, Songxiao Li\*, Xiaolong Qin. Self-adaptive inertial single projection methods for variational inequalities involving non-Lipschitz and Lipschitz operators with their applications to optimal control problems.

- Applied Numerical Mathematics*. 2021, 170, 219–241. (中科院三区, 中国数学会应用数学T2期刊)
6. **Bing Tan**, Sun Young Cho\*. Two adaptive modified subgradient extragradient methods for bilevel pseudomonotone variational inequalities with applications. *Communications in Nonlinear Science and Numerical Simulation*. 2022, 107, Article ID 106160. (中科院二区, 中国数学会应用数学T3期刊)
  7. **Bing Tan**, Songxiao Li\*, Xiaolong Qin. An accelerated extragradient algorithm for bilevel pseudomonotone variational inequality problems with application to optimal control problems. *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*. 2021, 115(4), Article ID 174. (中科院二区)
  8. **Bing Tan**, Sun Young Cho\*. Two projection-based methods for bilevel pseudomonotone variational inequalities involving non-Lipschitz operators. *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*. 2022, 116(2), Article ID 64. (中科院二区)
  9. **Bing Tan**, Sun Young Cho\*, Jen-Chih Yao. Accelerated inertial subgradient extragradient algorithms with non-monotonic step sizes for equilibrium problems and fixed point problems. *Journal of Nonlinear and Variational Analysis*. 2022, 6(1), 89–122. (中科院二区)
  10. **Bing Tan**, Songxiao Li\*. Modified inertial projection and contraction algorithms with non-monotonic step sizes for solving variational inequalities and their applications. *Optimization*. 2022, doi:10.1080/02331934.2022.2123705. (中科院三区, 中国数学会应用数学T3期刊)
  11. **Bing Tan**, Pongsakorn Sunthayuth\*, Prasit Cholamjiak, Yeol Je Cho. Modified inertial extragradient methods for finding minimum-norm solution of the variational inequality problem with applications to optimal control problem. *International Journal of Computer Mathematics*. 2022, doi: 10.1080/00207160.2022.2137672. (中科院四区)
  12. **Bing Tan**, Adrian Petruşel, Xiaolong Qin\*, Jen-Chih Yao. Global and linear convergence of alternated inertial single projection algorithms for pseudo-monotone variational inequalities. *Fixed Point Theory*. 2022, 23(1), 391–426. (中科院四区, 中国数学会应用数学T3期刊)
  13. **Bing Tan**, Liya Liu\*, Xiaolong Qin. Strong convergence of inertial extragradient algorithms for solving variational inequality and fixed point problems. *Fixed Point Theory*. 2022, 23(2), 707–728. (中科院四区, 中国数学会应用数学T3期刊)
  14. **Bing Tan**, Xiaolong Qin\*. Modified inertial projection and contraction algorithms for solving variational inequality problems with non-Lipschitz continuous operators. *Analysis and Mathematical Physics*. 2022, 12(1), Article ID 26. (中科院三区, 中国数学会应用数学T3期刊)
  15. **Bing Tan**, Zheng Zhou, Xiaolong Qin\*. Accelerated projection-based forward-backward splitting algorithms for monotone inclusion problems. *Journal of Applied Analysis and Computation*. 2020, 10(5), 2184–2197. (中科院四区, 中国数学会应用数学T3期刊)
  16. **Bing Tan**, Liya Liu, Xiaolong Qin\*. Self adaptive inertial extragradient algorithms for solving bilevel pseudomonotone variational inequality problems. *Japan Journal of Industrial and Applied Mathematics*. 2021, 38(2), 519–543. (中科院四区, 日本工业与应用数学学会会刊)
  17. **Bing Tan**, Jingjing Fan, Songxiao Li\*. Self-adaptive inertial extragradient algorithms for solving variational inequality problems. *Computational and Applied Mathematics*. 2021, 40(1), Article ID 19. (中科院四区)
  18. **Bing Tan**, Songxiao Li\*, Xiaolong Qin. On modified subgradient extragradient methods for pseudomonotone variational inequality problems with applications. *Computational and Applied Mathematics*. 2021, 40(7), Article ID 253. (中科院四区)
  19. **Bing Tan**, Sun Young Cho\*. Inertial extragradient algorithms with non-monotone stepsizes for pseudomonotone variational inequalities and applications. *Computational and Applied Mathematics*. 2022, 41(3), Article ID 121. (中科院四区)

20. **Bing Tan**, Zheng Zhou, Songxiao Li\*. Viscosity-type inertial extragradient algorithms for solving variational inequality problems and fixed point problems. *Journal of Applied Mathematics and Computing*. 2022, 68(2), 1387–1411. (中科院三区)
21. **Bing Tan**, Xiaolong Qin\*. Self adaptive viscosity-type inertial extragradient algorithms for solving variational inequalities with applications. *Mathematical Modelling and Analysis*. 2022, 27(1), 41–58. (中科院四区)
22. **Bing Tan**, Songxiao Li, Sun Young Cho\*. Inertial projection and contraction methods for pseudomonotone variational inequalities with non-Lipschitz operators and applications. *Applicable Analysis*. 2021, doi:10.1080/00036811.2021.1979219. (中科院四区)
23. **Bing Tan**, Sun Young Cho\*. Strong convergence of inertial forward–backward methods for solving monotone inclusions. *Applicable Analysis*. 2022, 101(15), 5386–5414. (中科院四区)
24. **Bing Tan**, Sun Young Cho\*. Two new projection algorithms for variational inequalities in Hilbert spaces. *Journal of Nonlinear and Convex Analysis*. 2022, 23(11), 2523–2534. (中科院四区)
25. **Bing Tan**, Sun Young Cho\*. Self-adaptive inertial shrinking projection algorithms for solving pseudomonotone variational inequalities. *Journal of Nonlinear and Convex Analysis*. 2021, 22(3), 613–627. (中科院四区)
26. **Bing Tan**, Shanshan Xu, Songxiao Li\*. Inertial hybrid and shrinking projection algorithms for solving variational inequality problems. *Journal of Nonlinear and Convex Analysis*. 2020, 21(10), 2193–2206. (中科院四区)
27. **Bing Tan**, Shanshan Xu, Songxiao Li\*. Inertial shrinking projection algorithms for solving hierarchical variational inequality problems. *Journal of Nonlinear and Convex Analysis*. 2020, 21(4), 871–884. (中科院四区)
28. **Bing Tan\***, Songxiao Li. Strong convergence of inertial Mann algorithms for solving hierarchical fixed point problems. *Journal of Nonlinear and Variational Analysis*. 2020, 4(3), 337–355. (SCI, 2020年无分区)

## 参加会议

- 2022.06 2022 West Coast Optimization Meeting (WCOM), UBC Okanagan, 加拿大
- 2021.07 第八届现代分析数学及其应用国际学术会议, 甘肃兰州
- 2020.10 中国运筹学会第十一次全国会员代表大会暨第十五次学术交流会, 安徽合肥
- 2019.06 电子科技大学基础与前沿研究院五周年院士高峰论坛, 四川成都
- 2019.04 中国运筹学会第十二届全国数学优化会议, 江苏南京

## 荣誉奖励

- 2022.11 2022年博士研究生国家奖学金
- 2021.11 2021年博士研究生国家奖学金
- 2021.05 电子科技大学2021年博士研究生学术新秀 (5%)
- 2019.09 电子科技大学优秀研究生干部、电子科技大学基础院优秀共产党员
- 2018.06 西南石油大学优秀毕业生
- 2017.12 2017年全国大学生数学建模竞赛全国一等奖 (1%)