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个人简历

- 2014.3至今 特聘教授□
2006.4—2014.2 历任助教、讲师、副教授□
2010.8—2013.10 在香港理工大学应用数学系攻读博士学位，获博士学位□
2003.9—2006.4 在天津工业大学数学系攻读硕士学位，获理学硕士学位

社会兼职

研究领域

1. 非线性泛函分析：不动点理论与计算方法，特征值问题，变分不等式
2. 多线性代数：高阶张量谱理论，结构张量
3. 数学规划：张量互补问题，非线性规划

科研成果与奖励

1. 2008.12, 非线性算子迭代逼近研究, 天津市自然科学三等奖
2. 2010.4, 河南省第十届自然科学优秀论文 一等奖
3. 2013.12, 河南省第二届自然科学学术奖—自然科学优秀论文一等奖
4. 2013.12, 河南省第二届自然科学学术奖—自然科学优秀论文二等奖
5. 2011.9, 河南省首届自然科学学术奖—自然科学优秀论文二等奖
6. 2010.4, 河南省第十届自然科学优秀论文 二等奖

科研项目

1. 2016.1—2019.12, 结构张量的特征值分析与互补问题研究, 国家自然科学基金面上项目, 11571095, 主持
2. 2012.1—2015.12, 比式与分式规划问题稳健解方法研究, 国家自然科学基金面上项目, 11171074, 参与
3. 2010.1—2013.12, 迭代算法收敛性理论研究及其在图像恢复中的应用, 国家自然科学基金面上项目, 11071279, 参与
4. 2012.2—2014.12, Halpern型迭代算法研究, 河南省基础与前沿技术研究计划项目, 122300410414, 参与
5. 2013.2—2014.12, 非线性算子不动点的近似逼近, 河南省基础与前沿技术研究计划项目, 132300410432, 参与
6. 2010.2—2012.12, 正算子及空间几何常数及其应用, 河南省基础与前沿技术研究计划项目, 102300410012, 参与

论文著作

部分论文:

2016

1. Yisheng Song, Gaohang Yu, Properties of Solution set of Tensor Complementarity Problem, Journal of Optimization Theory and Applications July 2016, Volume 170, Issue 1, pp 85–96 DOI: 10.1007/s10957-016-0907-0 arXiv: 1508.00069, 2015
2. Yisheng Song, Khanittha Promluang, Poom Kumam, Yeol Je Cho, Some convergence theorems of the Mann iteration for monotone α -nonexpansive mappings, Applied Mathematics and Computation Volumes 287–288, 5 September 2016, Pages 74–82 DOI: 10.1016/j.amc.2016.04.011
3. Yisheng Song, Liqun Qi, Eigenvalue analysis of constrained minimization problem for homogeneous polynomial, Journal of Global Optimization March 2016, Volume 64, Issue 3, pp 563-575 arXiv:1302.6085v2 2013
4. Yisheng Song, Liqun Qi, Tensor Complementarity Problem and Semi-positive Tensors, Journal of Optimization Theory and Applications June 2016, Volume 169, Issue 3, pp 1069-1078 DOI: 10.1007/s10957-015-0800-2 arXiv:1502.02209v1 2015

2015

1. Yisheng Song, Liqun Qi, Necessary and sufficient conditions of copositive tensors, Linear and Multilinear Algebra. 2015, Vol. 63, No. 1, 120–131, ArXiv:1302.6084
2. Yisheng Song, Liqun Qi, Properties of Some Classes of Structured Tensors, Journal of Optimization Theory and Applications, June 2015, Volume 165, Issue 3, pp 854-873. arXiv:1403.1118

2014

1. Yisheng Song, Liqun Qi, Positive eigenvalue-eigenvector of nonlinear positive mappings, Frontiers of Mathematics in China 2014, 9(1): 181–199.
2. Yisheng Song, Changan Tian, An explicit iteration for zeros of accretive operators, Applied Mathematics and Computation, Volume 233, 1 May 2014, Pages 369–376.
3. Yisheng Song, Liqun Qi, Infinite and finite dimensional Hilbert tensors, Linear Algebra and its Applications Volume 451, 15 June 2014, Pages 1–14. arXiv: 1402.4966
4. Yisheng Song, Hongjun Wang, Strong convergence for the modified Mann's iteration of λ -strict pseudocontraction, Applied Mathematics and Computation Volume 237, 15 June 2014, Pages 405–410.
5. Liqun Qi and Yisheng Song, An even order symmetric B tensor is positive definite, Linear Algebra and Its Applications Volume 457, 15 September 2014, Pages 303–312. Arxiv:1404.0452
6. Yisheng Song, Ying Huang, Fixed point property and approximation of a class of nonexpansive mappings, Fixed Point Theory and Applications 2014, 2014:81 DOI: 10.1186/1687-1812-2014-81
7. Hongjun Wang, Yisheng Song, An iteration method for zeros of accretive operators in Banach spaces, Journal of Nonlinear and Convex Analysis Volume 15, Number 5, August 2014, pp. 967-978.

2013

1. Yisheng Song, Liqun Qi, Spectral properties of positively homogeneous operators induced by higher order tensors, SIAM Journal on Matrix Analysis and Applications, 2013, Vol. 34, No. 4 : pp. 1581-1595.
2. Chang'an Tian, Yisheng Song, Strong convergence of A Regularization Method for Rockafellar's Proximal Point Algorithm, Journal of Global Optimization April 2013, Volume 55, Issue 4, pp 831-837.
3. Shenglong Hu, Guoyin Li, Liqun Qi, Yisheng Song, Finding the Maximum Eigenvalue of Essentially Nonnegative Symmetric Tensors via Sum of Squares Programming, Journal of Optimization Theory and Applications, September 2013, Volume 158, Issue 3, pp 717-738.

2012

1. Yisheng Song, Liqun Qi, The existence and uniqueness of eigenvalue for monotone homogeneous mapping pairs, Nonlinear Analysis Series A: Theory, Methods & Applications, Volume 75, Issue 13, (September 2012) Pages 5283-5293.
2. Qingnian Zhang, Yisheng Song, Halpern type proximal point algorithm of accretive operators, Nonlinear Analysis: Theory, Methods & Applications Volume 75, Issue 4, March 2012, Pages 1859-1868.
3. Yisheng Song, Qingnian Zhang, Proximal algorithms for a class of mixed equilibrium problems, Fixed Point Theory and Applications, 2012, 2012:166 (2 October 2012).

2011

1. Xinkuan Chai, Yisheng Song, New iteration algorithms for an asymptotically nonexpansive mapping, *Journal of Applied Mathematics and Computing*, Volume 35, Numbers 1-2, 2011, 351-361.
2. Hongjun Wang, Yisheng Song, An iteration schemes for nonexpansive mappings and variational inequalities, *Bulletin of the Korean Mathematical Society*, 48 (2011), No. 5, pp. 991-1002.
3. Qingnian Zhang, Yisheng Song, Halpern iteration of Cesàro means for asymptotically nonexpansive mappings, *ScienceAsia* 37(2) (2011): 145-151.
4. Yisheng Song and Yeol Je Cho, Some Notes on Ishikawa Iteration for Multi-valued Mappings, *Bulletin of the Korean Mathematical Society* 48 (2011), No. 3, pp. 575-584.
5. Yisheng Song, Qingchun Li, Successive Approximations For Quasi-Firmly Type Nonexpansive Mappings, *Mathematical Communications*, 16(2011), 251-264.
6. Yisheng Song, Iterative solutions for zeros of multivalued accretive operators, *Mathematische Nachrichten* (Math. Nachr.) Vol. 284, Issue 2-3/2011, page 370-380.
7. Xinkuan Chai, Yisheng Song, Convergence theorem for an iterative algorithm of strict pseudocontraction, *Fixed Point Theory and Applications*, 2011, 2011:95(6 December 2011)

2010

1. Yisheng Song, Jung Im Kang, and Yeol Je Cho, On iterations methods for zeros of accretive operators in Banach spaces, *Applied Mathematics and Computation*, 216 (2010) 1007-1017.
2. Yisheng Song, Xiao Liu, Iterative algorithms for a countable family of nonexpansive mappings, *Journal of Concrete and Applicable Mathematics* VOL. 8, NO. 4, 2010, 645-655.
3. Yisheng Song, Mann iteration of Cesàro means for asymptotically non-expansive mappings, *Nonlinear Analysis: Theory, Methods and Applications*, Volume 72, Issue 1, 1 January 2010, Pages 176-182.

2009

1. Yisheng Song, ChangAn Tian, Modified Halpern iteration of asymptotically non-expansive mappings, *Bulletin of the Iranian Mathematical Society*, 2009, Volume 35, Issue 2, 229-254.
2. Yisheng Song, Strong convergence of viscosity approximation methods with strong pseudocontraction for Lipschitz pseudocontractive mappings, *Positivity* Volume 13, Number 4, 2009, 643-655.
3. Yisheng Song, Haiying Li, Strong Convergence of Iterative Sequences for Nonexpansive Mappings, *Applied Mathematics Letters*, 22 (2009) 1500-1507.
4. Yisheng Song, Xinkuan Chai, Halpern iteration for firmly type nonexpansive mappings, *Nonlinear Analysis: Theory, Methods and Applications* Volume 71, Issue 10, 15 November 2009, Pages 4500-4506.
5. Yisheng Song and Yeol Je Cho, Iterative approximations for multivalued nonexpansive mappings in reflexive Banach spaces, *Math. Inequal. Appl.* Volume 12, Number 3 (2009), 611-624.
6. Yisheng Song and Changsen Yang, Solving variational inequality with weak contraction using viscosity approximation methods, *Acta Mathematica Scientia (Series A)*, 2009, 29A(3):656-668.
7. Yisheng Song, Xiao Liu, Convergence comparison of several iteration algorithms for the common fixed point problems, *Fixed Point Theory and Applications*, Volume 2009 (2009), Article ID 824374, 13 pages.
8. Yisheng Song, Iterative convergence to Cesàro means for continuous pseudocontractive mappings, *Nonlinear Analysis: Theory, Methods and Applications* Volume 71, Issues 7-8, 1 October 2009-15 October 2009, Pages 2792-2800.
9. Yisheng Song and Yuchun Zheng, Strong convergence of iteration algorithms for a countable family of nonexpansive mappings, *Nonlinear Analysis: Theory, Methods and Applications* Volume 71, Issues 7-8, 1 October 2009-15 October 2009, Pages 3072-3082.
10. Yisheng Song, Approximating curves for nonexpansive mappings and accretive operators, *Applicable Analysis* Volume 88, Issue 2 February 2009, pages 215-229.
11. Qingnian Zhang and Yisheng Song, Iterative construction for common fixed points offinitely many nonexpansive mappings, *Nonlinear Analysis: Theory, Methods and Applications* Volume 71, Issues 5-6, 1 September 2009-15 September 2009, Pages 1850-1856.
12. Yisheng Song, Equivalent theorems of the convergence between proximal-type algorithms, *Nonlinear Analysis: Theory, Methods and Applications*, Volume 71, Issues 1-2, 1 July 2009-15 July 2009, Pages 293-300.
13. Yisheng Song and Yeol Je Cho, Averaged iterates for non-expansive nonself-mappings in Banach spaces, *Journal of Computational Analysis and Applications*, 11(3)(2009), 451-460.
14. Yisheng Song, An iterative process for a finite family of pseudocontractive mappings, *Acta Mathematica Sinica, English Series*, 25(2)(2009), 293-298.
15. Yeol Je Cho and Yisheng Song, Viscosity approximation for Solutions of Fixed Points and Variational Solutions for Pseudocontractions in Banach Spaces, *Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis* 16 (2009) 273-285.
16. Yisheng Song, New iterative algorithms for zeros of accretive operators, *Journal of the Korean Mathematical Society*, 46 (2009), No. 1, pp. 83-97.

17. Yisheng Song and Hongliang Zuo, Strong convergence theorems for finitely many non-expansive mappings, *Nonlinear Analysis: Theory, Methods and Applications* Volume 70, Issue 4, 15 February 2009, Pages 1797-1802.
18. Yisheng Song and Hongjun Wang, Convergence of iterative algorithms for multivalued mappings in Banach spaces, *Nonlinear Analysis: Theory, Methods and Applications* Volume 70, Issue 4, 15 February 2009, Pages 1547-1556.
19. Yisheng Song and Changsen Yang, A note on a Paper "A Regularization Method for the Proximal Point Algorithm", *Journal of Global Optimization*. Volume 43, Number 1, January 2009, 171-174.
20. Qingnian Zhang and Yisheng Song, Fixed point theory for generalized φ -weak contractions, *Applied Mathematics Letters*, Volume 22, Issue 1, January 2009, Pages 75-78.

2008

1. Yisheng Song, Coincidence points of weakly compatible mappings, *Bulletin of the Korean Mathematical Society* 45 (2008), No. 4, pp. 607-614.
2. Yisheng Song, Strong convergence of averaged iteration for asymptotically non-expansive mappings, *Applied Mathematics and Computation*, 204(2008) 854-861.
3. Yisheng Song and Rudong Chen, Weak and strong convergence of Mann's-type iterations for a countable family of nonexpansive mappings, *Journal of the Korean Mathematical Society* 45 (2008), No. 5, pp. 1393-1404.
4. Yisheng Song, New Strong Convergence Theorems for Nonexpansive Nonself-Mappings without Boundary Conditions, *Computers and Mathematics with Applications*. 56 (2008), 1473-1478.
5. Yisheng Song and Rudong Chen, Strong convergence of an iterative method for non-expansive mappings, *Mathematische Nachrichten (Math. Nachr.)* 281, No. 8, 1196-1204 (2008)
6. Yisheng Song and Hongjun Wang, Erratum to "Mann and Ishikawa iterative processes for multivalued mappings in Banach spaces [*Computers and Mathematics with Applications*, 54(2007) 872-877]", *Computers and Mathematics with Applications*. Volume 55, Issue 12, June 2008, Pages 2999-3002.
7. Yu Miao and Yisheng Song, Weak and strong convergence of a new scheme for two nonexpansive mappings, *Applicable Analysis*, Vol. 87, No. 5, May 2008, 567-574.
8. Yisheng Song and Xinkuan Chai, Strong convergence theorems of viscosity approximation methods for generalized Lipschitz pseudocontractive mappings, *Acta Mathematica Sinica, Chinese Series* 2008, No. 51(3), 501-508.
9. Yisheng Song, A new sufficient condition for the strong convergence of Halpern type iterations, *Applied Mathematics and Computation* Volume 198, Issue 2, 1 May 2008, Pages 721-728.
10. Yisheng Song, A note on a Paper "A new iteration process for generalized Lipschitz pseudo-contractive and generalized Lipschitz accretive mappings", *Nonlinear Analysis: Theory, Methods and Applications* Vol 68/10, 2008, pp 3047-3049.
11. Yisheng Song and Sumei Xu, Strong convergence theorems for nonexpansive semigroup in Banach spaces, *Journal of Mathematical Analysis and Application*, 2008, Vol 338/1 pp. 152-161.

2007

1. Yisheng Song, Iterative approximation to common fixed points of a countable family of nonexpansive mappings, *Applicable Analysis* Vol. 86, No. 11, November 2007, 1329-1337.
2. Yisheng Song, Iterative selection methods for the common fixed point problems in a Banach space, *Applied Mathematics and Computation*, Vol 193/1, 2007, pp 7-17.
3. Yisheng Song, Coincidence Points for Noncommuting f -Weakly Contractive Mappings, *International Journal of Computational and Applied Mathematics (IJCAM)*, Volume 2 Number 1 (2007), pp. 51-57.
4. Yisheng Song, On a Mann type implicit iteration process for continuous pseudo-contractive mappings, *Nonlinear Analysis: Theory, Methods and Applications*, 67 (2007) 3058-3063.
5. Yisheng Song and Sumei Xu, A Note on Common Fixed-Points for Banach Operator Pairs, *International Journal of Contemporary Mathematical Sciences* Vol. 2, 2007, no. 24, 1163 - 1166.
6. Yisheng Song, Common fixed points and invariant approximations for generalized (f, g) -nonexpansive mappings, *Communications in Mathematical Analysis* 2(2007), No.2, 17-26.
7. Yisheng Song, Strong convergence of an iterative methods for continuous pseudocontractive mapping, *JP Journal of Fixed Point Theory and Applications* 2(1)(2007) 1-9.
8. Yisheng Song and Rudong Chen, Convergence theorems of iterative algorithms for continuous pseudocontractive mappings, *Nonlinear Analysis: Theory, Methods and Applications*, Volume 67, Issue 2, 15 July 2007, Pages 486-497.
9. Yisheng Song and Rudong Chen, Viscosity approximative methods to Cesaro means for non-expansive mappings, *Applied Mathematics and Computation* 186 (2007) 1120-1128.
10. Shengju Yang and Yisheng Song, Iterative Approximation to Common Fixed Points of Two Nonexpansive Mappings in Banach Spaces, *Applied Mathematical Sciences*, Vol. 1, 2007, no. 3, 97 -108.
11. Yisheng Song and Rudong Chen, Iterative approximation to common fixed points of nonexpansive mapping sequences in reflexive Banach spaces, *Nonlinear Analysis: Theory, Methods and Applications*, 66 (2007) 591-603.
12. Yisheng Song, Rudong Chen and Haiyun Zhou, Viscosity approximation methods for nonexpansive mapping sequences in Banach spaces, *Nonlinear Analysis: Theory, Methods and Applications*, 66 (2007) 1016-1024.

13. Yisheng Song and Qingchun Li, Viscosity approximation for nonexpansive nonself-mappings in reflexive Banach spaces, *J. of Systems Science and Mathematical Science* 27(4) (2007, 8), 481-487.

14. Yanrong Yu and Yisheng Song, Iterative approximation of fixed points for asymptotically nonexpansive mappings in uniformly convex Banach spaces , *Mathematics in Practice and Theory* , Vol.37, 2007, No. 19, 144-149.

2006

1. Yisheng Song and Rudong Chen, Viscosity approximation methods for nonexpansive nonself-mappings, *J. Math. Anal. Appl.*,321 (2006) 316-326.

2. Yisheng Song and Rudong Chen, Strong convergence theorems on an iterative method for a family of finite nonexpansive mappings, *Applied Mathematics and Computation*, 180 (2006) 275-287.

3. Yisheng Song and Rudong Chen, An approximation method for continuous pseudocontractive mappings, *J. of Inequal. and Appl.* volume 2006, Article ID 28950, 1-9.

4. Rudong Chen, Yisheng Song and Haiyun Zhou, Convergence Theorems for Implicit Iteration Process for a Finite Family of Continuous Pseudocontractive Mappings, *J. Math. Anal. Appl.* 314(2006),701-709.

5. Yanrong Yu, Yisheng Song and Rudong Chen, An implicit iteration process for a finite family of strictly pseudocontractive mappings of Browder-Petryshyn type, *JP Journal of Fixed Point Theory and Applications*, 1(2006),27-41.

6. Rudong Chen and Yisheng Song, VISCOSITY APPROXIMATION METHODS FOR STRICTLY PSEUDOCONTRACTIVE MAPPINGS OF BROWDER-PETRYSHYN TYPE, *J. Sys. Sci. & Math. Scis.* 26(6) (2006, 12), 651-657.

7. Ru Dong CHEN, Yi Sheng SONG and Haiyun Zhou, Viscosity Approximation Methods for Continuous Pseudocontractive Mappings, *ACTA MATHEMATICA SINICA, Chinese Series*, Vol.49, No.6, 2006,1275-1278.

8. Rudong Chen, Peikee Lin and Yisheng Song , An approximation method for strictly pseudocontractive mappings, *Nonlinear Analysis: Theory, Methods and Applications* , 64(2006), 2527-2535.

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