

Fuquan Xia's Vitae

Last Name Xia

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Place of birth Sichuan, People's Republic of China

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Position

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Education

B.S. Sichuan Normal University 1997

M.S. Sichuan Normal University 2000

Ph..D. Sichuan University 2008

Teaching

Undergraduate courses

《Mathematical Analysis》

《Operations Research》

Graduate courses

《Convex Analysis》

《Variational Inequalities and Complementarity Problems》

《Functional Analysis》

Editorial work

Reviewer of "Mathematical Reviews" 2008

Editor of the Special Issue "Theory and Algorithms of Variational Inequality and Equilibrium Problems, and Their Applications" of Abstract and Applied Analysis, 2013

Research interests

Variational inequality, Optimization theory and applications

Selected recent publications

2001

1. X. P. Ding, F. Q. Xia, Generalized H-KKM type theorems in H-metric spaces with applications, *Applied Mathematics and Mechanics*, 22(10)1029-1036, 2001.

2002

2. X. P. Ding, F. Q. Xia, A new class of completely generalized quasi-variational inclusions in Banach spaces, *Journal of Computational and Applied Mathematics*, 147,369-383, 2002.

2004

3. X. P. Ding, F. Q. Xia, Equilibria of nonparacompact generalized games with FC-majorized correspondences in G-convex spaces, *Nonlinear Analysis TMA*, 56, 831—849, 2004.

4. X. P. Ding, F. Q. Xia, Generalized games and generalized vector quasi-equilibria in G-convex spaces, *Inequality Theory and Applications*, 4,1-18, 2004.

2007

5. F. Q. Xia, X. P. Ding, Predictor-corrector algorithms for solving generalized mixed implicit quasi-equilibrium problems, *Applied Mathematics and Computation*,188, 173-179, 2007.

6. F. Q. Xia, N. J. Huang, Variational inclusions with general H-monotone operators in Banach spaces, *Computers and Mathematics with Applications*, 54, 24-30, 2007.

2008

7. F. Q. Xia, N. J. Huang, A new system of generalized complementarity problems in Banach spaces, *Taiwanese Journal of mathematics*, 12(2), 435-446, 2008.

8. F. Q. Xia, N. J. Huang, A projected subgradient method for solving generalized mixed variational inequalities, *Operations Research Letters*, 36, 637-642, 2008.

9. F. Q. Xia, N. J. Huang, Algorithm for solving a new class of general mixed variational inequalities in Banach spaces, *Journal of Computation and Applied Mathematics*,220(1-2), 632-642, 2008.

10. F. Q. Xia, X. P. Ding, Iterative Schemes for solving multivalued mixed variational inequalities in Banach Space, *Acta Analysis Functionalis Applicata*, 10(4),289-297,2008.

2009

11. F. Q. Xia, N. J. Huang, Auxiliary principle and iterative algorithms For Lions-Stampacchia variational inequalities, *Journal of Optimization Theory and Applications*, 140, 377-389, 2009.

2010

12. Q. B. Zhang, F. Q. Xia, Mixed approximation for nonexpansive mapping, *Abstract and Applied Analysis*, doi: 10.1155/2010 / 763207, 2010.

2011

13. F. Q. Xia, N. J. Huang, A projection-proximal point algorithm for solving generalized variational inequalities, *Journal of Optimization Theory and Applications*,150,98-117,2011

14. F. Q. Xia, Y. Z. Zou, A Projective splitting algorithm for solving generalized mixed variational inequalities, *Journal of Inequalities and Applications*, 27,1-14,2011

15. 夏福全,黄南京,一般混合变分不等式解的搨集近似算法, *数学物理学报*, 31A(4),866-879, 2011

16. F. Q. Xia, N. J. Huang, An inexact hybrid projection-proximal point algorithm for solving

generalized mixed variational inequalities, *Computers and Mathematics with Applications*, 62,4596–4604,2011.

2012

17. X. B. Li, F. Q. Xia, Levitin-Polyak well-posedness of generalized mixed variational inequality in Banach spaces, *Nonlinear Analysis TMA*, 75(4),2139-2153, 2012.

18.朱莉 , 夏福全 , 广义混合变分不等式的 Levitin-Polyak 适定性 , *数学物理学报* , 32A(4)633-643, 2012.

19. L.Zhu, F.Q.Xia, Scalarization method for Levitin-Polyak well-posedness of vectorial optimization problems, *Mathematical Methods of Operations Research* 76, 361-375, 2012.

2013

20.X. B. Li, F. Q. Xia, Hadamard well-posedness of a general mixed variational inequality in Banach space, *Journal of Global Optimization*, 56(4) 1617-1629, 2013.

2014

21. F. Q. Xia, T. Li and Y. Z. Zou, A projection subgradient method for solving optimization with variational inequality constraints, *Optimization Letters*, 8, 279-292, 2014.

22. G. J. Tang and F. Q. Xia, Strong convergence of a splitting projection method for the sum of maximal monotone operators, *Optimization Letters*, DOI 10. 1007 /s11590-013 -0649-y.