

# Curriculum Vitae

## Personal Information

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## Educational History

**Ph.D.**, Sept. 2005 – Sept. 2009, Faculty of Electrical Engineering, Mathematics and Computer Science, Delft University of Technology, The Netherlands. My research was financially supported by the Netherlands Organization for Scientific Research (NWO grant 613.000.441), and under the daily supervision of Prof. dr. ir. C. Roos.

**Graduate study**, Sept. 2003 – Jul. 2005, Computational Mathematics in the Department of Mathematics, Nanjing University, China.

**B.Sc.**, Sept. 1999 – Jul. 2003, Information and Computational Science in the Department of Mathematics, Nanjing University, China.

## Professional Career

**Associate Professor**, Jan. 2013 – present, Department of Mathematics, Nanjing University.

**Postdoctor**, Sept. 2014 – Sept. 2015, Center for Operations Research and Econometrics (CORE), Université catholique de Louvain (UCL), Belgium. My research was financially supported by the China Scholarship Council, visiting Prof. Yurii Nesterov.

**Assistant Professor**, Dec. 2009 – Dec. 2012, Department of Mathematics, Nanjing University.

## Publications

- [1] A. Asadi, G. Gu, and C. Roos. Convergence of the homotopy path for a full-Newton step infeasible interior-point method. *Oper. Res. Lett.*, 38(2):147–151, 2010.
- [2] G. Gu, H. Mansouri, M. Zangiabadi, Y. Q. Bai, and C. Roos. Improved full-Newton step  $O(nL)$  infeasible interior-point method for linear optimization. *J. Optim. Theory Appl.*, 145(2):271–288, 2010.

- [3] G. Gu and C. Roos. Counterexample to a conjecture on an infeasible interior-point method. *SIAM J. Optim.*, 20(4):1862–1867, 2010.
- [4] G. Gu, M. Zangiabadi, and C. Roos. Full Nesterov-Todd step infeasible interior-point method for symmetric optimization. *European J. Oper. Res.*, 214(3):473–484, 2011.
- [5] M. Zangiabadi, G. Gu, and C. Roos. A Full Nesterov–Todd Step Infeasible Interior-Point Method for Second-Order Cone Optimization. *J. Optim. Theory Appl.*, 158(3):816–858, 2013.
- [6] XingJu Cai, GuoYong Gu, BingSheng He, and XiaoMing Yuan. A proximal point algorithm revisit on the alternating direction method of multipliers. *Sci. China Math.*, 56(10):2179–2186, 2013.
- [7] Xingju Cai, Guoyong Gu, and Bingsheng He. On the  $O(1/t)$  convergence rate of the projection and contraction methods for variational inequalities with Lipschitz continuous monotone operators. *Comput. Optim. Appl.*, 57(2):339–363, 2014.
- [8] Guoyong Gu, Bingsheng He, and Xiaoming Yuan. Customized proximal point algorithms for linearly constrained convex minimization and saddle-point problems: a unified approach. *Comput. Optim. Appl.*, 59(1-2):135–161, 2014.
- [9] Guoyong Gu, Bingsheng He, and Junfeng Yang. Inexact alternating-direction-based contraction methods for separable linearly constrained convex optimization. *J. Optim. Theory Appl.*, 163(1):105–129, 2014.
- [10] H. Bruin, R. Fokkink, G. Gu, and C. Roos. On the chaotic behavior of the primal-dual affine-scaling algorithm for linear optimization. *Chaos*, 24(4):043132, 9, 2014.
- [11] Guoyong Gu, Suhong Jiang, and Junfeng Yang. A TVSCAD approach for image deblurring with impulsive noise. *Inverse Problems*, 33(12):125008, 21, 2017.
- [12] Guoyong Gu and Junfeng Yang. Tight sublinear convergence rate of the proximal point algorithm for maximal monotone inclusion problems. *SIAM J. Optim.*, 30(3):1905–1921, 2020.
- [13] Z. Yan, G. Gu, K. Zhao, Q. Wang, G. Li, X. Nie, H. Yang, and S. Du. Integer linear programming based topology design for GNSSs with inter-satellite links. *IEEE Wireless Communications Letters*, 10(2):286–290, 2021.
- [14] Guoyong Gu and Junfeng Yang. A unified and tight linear convergence analysis of the relaxed proximal point algorithm. *J. Ind. Manag. Optim.*, 19(5):3742–3749, 2023.
- [15] Hongmei Chen, Guoyong Gu, and Junfeng Yang. A golden ratio proximal alternating direction method of multipliers for separable convex optimization. *J. Global Optim.*, 87(2-4):581–602, 2023.
- [16] Guoyong Gu. *Full-Step Interior-Point Methods for Symmetric Optimization*. PhD thesis, Delft University of Technology, 2009. ISBN 978-90-9024574-4.