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연구분야

수치선형대수학; 비선형행렬방정식

교육

이학박사, 부산대학교 **2012.03 – 2019.02**

◦ 졸업논문 : Accelerations of Newton's Methods Solving Nonlinear Matrix Equations

이학석사, 부산대학교 **2010.03 – 2012.02**

◦ 졸업논문 : The Numerical Method for Solving a Quadratic Matrix Equation with Special Coefficient Matrices

연구실적

논문

- 2013 Seo, Sang-Hyup, Seo, Jong-Hyun, and Kim, Hyun-Min, "Newton's Method for Solving a Quadratic Matrix Equation with Special Coefficient Matrices", *Honam Math. J.*, 35(3), 417–433, Sep. 2013.
- 2018 Meng, J., Seo, S. & Kim, H. "Condition Numbers and Backward Error of a Matrix Polynomial Equation Arising in Stochastic Models", *J. Sci. Comput.* 76, 759–776 (2018).

- 2018 Seo, Sang-Hyup, Seo, Jong-Hyeon, and Kim, Hyun-Min, “A Modified Newton Method for a Matrix Polynomial Equation Arising in Stochastic Problem”, *Electron. J. Linear Algebra*, 34, 500–513, 2018.
- 2019 Kim, Taehyeong, Sang-Hyup Seo, and Hyun-Min Kim. “On Newton’s Method for Solving a System of Nonlinear Matrix Equations.” *East Asian Math. J.* 35(3), 341–349, 2019.
- 2020 Seo, Sang-hyup, and Jong-Hyeon Seo. “Convergence of relaxed Newton method for order-convex matrix equations”, *Comput. Appl. Math.* 39(1), 1–17, 2020.

과제참여

안과질환 진단서비스 플랫폼 개발사업 : 참여연구원

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◦ 지원기관 : 부산광역시