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Research interests

I am already working on the complexity of first order methods using performance estimation.

Qualifications

Other, Master's Degree, On maximum likelihood and sample moment estimators for the m th (central) moment in a normal and generalized gamma population, Sabanci University
31 Jan 2019 → 15 Dec 2020

Other, Master's Degree, A stochastic Kriging meta-model for simulation optimization based on a k -optimal design, Sharif University of Technology
15 Sept 2012 → 12 Sept 2014

Employment

Researcher

Researcher
Econometrics and OR
Tilburg University
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1 Jan 2025 → 1 Jun 2026

Research outputs

The exact worst-case convergence rate of the alternating direction method of multipliers

Zamani, M., Abbaszadehpeivasti, H. & de Klerk, E., Nov 2024, In: Mathematical Programming. 208, 1-2, p. 243-276

Convergence rate analysis of the gradient descent-ascent method for convex-concave saddle-point problems

Zamani, M., Abbaszadehpeivasti, H. & de Klerk, E., 2 Sept 2024, In: Optimization Methods & Software. 39, 5, p. 967-989
23 p.

On the rate of convergence of the difference-of-convex algorithm (DCA)

Abbaszadehpeivasti, H., de Klerk, E. & Zamani, M., Jul 2024, In: Journal of Optimization Theory and Applications. 202, p. 475-496

Performance analysis of optimization methods for machine learning

Abbaszadehpeivasti, H., 2024, Tilburg: CentER, Center for Economic Research. 252 p.

Convergence rate analysis of randomized and cyclic coordinate descent for convex optimization through semidefinite programming

Abbaszadehpeivasti, H., de Klerk, E. & Zamani, M., Aug 2023, In: Applied Set-Valued Analysis and Optimization. 5, 2, p. 141-153
13 p.

On the method of moments approach applied to a (generalized) gamma population

Abbaszadehpeivasti, H. & Frenk, J. B. G., Jun 2023, In: Communications in statistics: Part A: Theory and methods. 52, 11, p. 3685-3708

Conditions for linear convergence of the gradient method for non-convex optimization

Abbaszadehpeivasti, H., de Klerk, E. & Zamani, M., 2023, In: Optimization Letters. 17, p. 1105–1125

The exact worst-case convergence rate of the gradient method with fixed step lengths for L-smooth functions

Abbaszadehpeivasti, H., de Klerk, E. & Zamani, M., Jul 2022, In: Optimization Letters. 16, 6, p. 1649–1661