

Curriculum Vitae



• Personal ID:

Name : Nasser Akhondi
Date of Birth : March. 21. 1983
Marital Status : Married
Nationality : Iranian
Position : Assistant Professor of applied mathematics
Research Area : Numerical linear algebra, computational science

• Contacts:

Work address: School of Mathematics and Computer Science,
Damghan University, P.O.Box 36715-364, Damghan, Iran.

Tel: +98(23)35233054-(Ext. 397)

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• Education:

2001–2005

B. Sc. in Applied Mathematics, University of Sistan and Baluchestan, Iran.

2005-2007

M. Sc. in Applied Mathematics, Ferdowsi University of Mashhad, Iran. Thesis' title: "Mathematical fuzzy structure for AHP method",
Supervisor: Prof. A. Vahidian Kamyad.

2007-2012

Ph. D. in Applied Mathematics, Ferdowsi University of Mashhad, Iran.
Thesis' title: "New iterative and direct methods for solving Toeplitz linear systems",

Supervisor: Prof. F Toutounian.

- **Research interests:**

1. Numerical Linear Algebra.
2. Error analysis
3. Computational Science

- **Teaching Experiences:**

2009-2011: Ferdowsi university of Mashhad:

Academic Status: Lecturer

1. General mathematics (1): B.Sc Course
2. Numerical Computations: B.Sc Course
3. Numerical Analysis: B.Sc Course

2012-2022: Damghan University:

Academic Status: Assistant Professor

1. General mathematics (1): B.Sc Course
2. Ordinary Differential Equations: B.Sc Course
3. Numerical Computations: B.Sc Course
4. Numerical Analysis: B.Sc Course
5. Numerical Linear Algebra: B.Sc Course
6. Numerical Methods in Linear Algebra: M.Sc Course

- **Conferences**

[1] AKHOUNDI, NASSER. "NESTED SPLITTING CONJUGATE GRADIENT METHOD FOR BTTB SYSTEMS." *Invited Plenary Speakers IMS and the Seminar Organizing Committee are proud to announce that the following mathematicians and scientists have accepted their invitations to speak at the seminar..*

- **Journal Papers :**

[1] Akhondi, N., and Faezeh Toutounian. "Accelerated circulant and skew circulant splitting methods for Hermitian positive definite Toeplitz systems." *Advances in Numerical Analysis* 2012 (2012).

[2] Toutounian, Faezeh, and Nasser Akhondi. "Recursive self preconditioning method based on Schur complement for Toeplitz matrices." *Numerical Algorithms* 62.3 (2013): 505-525.

[3] Akhondi, N. "Toeplitz-like preconditioner for linear systems from spatial fractional diffusion equations." *Iranian Journal of Numerical Analysis and Optimization* 11.1 (2021): 95-106.

[4] Akhondi, Naser. " $2n$ by $2n$ circulant preconditioner for a kind of spatial fractional diffusion equations." *Journal of Mathematical Modeling* 8.3 (2020): 207-218.

[5] Akhondi, Nasser, and Iman Alimirzaei. "Modify Levinson algorithm for symmetric

positive definite Toeplitz system." *Numerical Algorithms* 71.4 (2016): 907-913.

[6] Akhoundi, Nasser. "A direct solver for solving systems of linear equations with banded ill-conditioned Toeplitz matrices." *Journal of Mathematical Modeling* (2022): 1-9.

[7] Abbasi, Zahra, and Nasser Akhoundi. "Discover the Maximum Descriptive User Groups on the Social Web." *Control and Optimization in Applied Mathematics* 4.2 (2019): 39-48.

[8] Akhoundi, Nasser. "Flexible conjugate gradient method for semiseparable matrices." *Numerical Analysis and Its Applications* (2018): 239.

• SUPERVISOR OF M.sc PROJECTS:

• (1)

Name : Ali Hasan Beigi
Course : M. Sc
Sex : Male
Nationality : Iranian
Date of defense : 2015
Science field : Applied mathematics
Thesis : Krylov subspace method with splitting preconditioner for least square error

• (2)

Name : Iman Alimirzaee
Course : M. Sc
Sex : Male
Nationality : Iranian
Date of defense : 2014
Science field : Applied mathematics
Thesis : Schur-Levinson Algorithm for solving Toeplitz linear system.

• (3)

Name : Ali Khezli
Course : M. Sc
Sex : Male
Marital Status : Single
Nationality : Iranian
Date of defense : 2015
Science field : Applied mathematics
Thesis : Inner iteration splitting methods for solving linear systems

• (4)

Name : Fereshteh Moshabeh
Course : M. Sc
Sex : Female
Nationality : Iranian
Date of defense : 2015
Science field : Applied mathematics

Thesis : Fast and stable methods for solving semiseparable matrices.

• (5)

Name : Abolhasan Malekan

Course : M. Sc

Sex : Male

Nationality : Iranian

Date of defense : 2016

Science field : Applied mathematics

Thesis : Using parallel computation for solving continuous Sylvester equation.