



**Mehdi Sabzevari**

Major:

Department of Applied Mathematics, Faculty of Mathematical sciences,  
University of Kashan

Tel.: +98-31-55913049 , E-Mail: sabzevari@kashanu.ac.ir

[www. faculty.kashanu.ac.ir/sabzevari](http://www.faculty.kashanu.ac.ir/sabzevari)

### **EDUCATION**

**Ph.D. Applied Mathematics, K.N T. University of Technology, 2007-2012.**

**M.Sc. Applied Mathematics, K.N T. University of Technology, 2004-2006.**

**B.Sc. Pure Mathematics, University of Kashan, 2000-2004.**

### **RESEARCH INTERESTS**

- Stochastic Processes
- Numerical Analysis
- Numerical solutions for Integral Equations
- Gambler's Ruin Problem and Queuing Systems

## PUBLICATIONS

### Journal Papers

- M. Sabzevari, *Corrigenda to “Numerical solution of Fredholm fuzzy integral equations of the second kind using...”* [Ain Shams Eng. J. 5 (2014) 631–636], Ain Shams Eng. J., (2021) 12 2395-2399.
- M. Sabzevari, M. Mahmood Salkouyeh, *Numerical solution of Fuzzy Fredholm integral equations of the second kind using CAS wavelets, Wavelet and Linear Algebra*, Accepted (in Persian).
- M. Sabzevari, F. Molaei, *Numerical solution of system of nonlinear integro-differential equations using hybrid of Legendre polynomials and block-pulse functions*, *Math. Interdisc. Res.* 5 (2020) 225-238.
- M. Sabzevari, A. Saadatmandi, *Numerical solution of linear Fuzzy Fredholm integral equations of the second kind using second kind Chebyshev wavelets*, *Wavelet and Linear Algebra*, 6 (2019) 1-18 (in Persian).
- M. Sabzevari, *A review on “Numerical solution of nonlinear Volterra-Fredholm integral equations using hybrid of . . .”* [Alexandria Eng. J. 52 (2013) 551–555], Alexandria Eng. J., 58 (2019) 1099-1102.
- M. Sabzevari, *Erratum to “Numerical solution of linear Fredholm integral equation by using hybrid Taylor and Block-Pulse functions”*[*Appl. Math. Comput.* 149 (2004) 799-806], *Appl. Math. Comput.*, **339** (2018) 302-307.
- M. Sabzevari, *Variance of the asymmetric n-player gambler's ruin problem with ties allowed*, *Communications in Statistics-Simulation and Computation*, **47** (2018) 1540-1549.
- S.M. Hashemiparast, M. Sabzevari, *The two-dimensional asymmetric gambler's ruin problem with n players and simulations*, *Communications in Statistics-Simulation and Computation*, **41** (2012) 1895-1911.
- S.M. Hashemiparast, M. Sabzevari, *The asymmetric n-player gambler's ruin problem with ties allowed and simulation*, *Journal of the Korean Statistical Society*, **40** (2011) 267–276.
- S.M. Hashemiparast, M. Sabzevari, H. Fallahgoul, *Improving the Solution of Nonlinear Volterra Integral Equations Using Rationalized Haar s-Function*, *Vietnam Journal of Mathematics*, **39:2** (2011) 145-157.
- S.M. Hashemiparast, M. Sabzevari, H. Fallahgoul, *Using crooked lines for the higher accuracy in system of integral equations*, *J. Appl. Math. & Inf.*, **29** (2011) 145 – 159.

## Conference Papers

- S.M. Hashemiparast, M. Sabzevari, *Using crooked lines for Numerical solution of Volterra integral equations*, Fifth International Conference of Applied Mathematics and Computing, Plovdiv, Bulgaria, August 17, 2008.
- S.M. Hashemiparast, M. Sabzevari, *Improving the Solution of Nonlinear Fredholm Integral Equations Using Rationalized Haar s-Function*, Third International Conference on Modeling, Simulation and Applied Optimization, Sharjah, U.A.E., January 2009.
- S.M. Hashemiparast, M. Sabzevari, *The multi dimensional asymmetric n-player gambler's ruin problem with simulation*, 8th seminar probability and stochastic processes, Guilan, 2011.
- سیدمقتدی هاشمی پرست، مهدی سبزواری، بررسی و شبیه سازی مسئله ورشکستگی قمارباز نامتقارن با  $n$  بازیکن، دهمین کنفرانس آمار ایران، دانشگاه تبریز، 1389.
- M. Sabzevari, *Solving Fredholm integral equations by linear functions using rationalized Haar functions*, 47th Annual Iranian Mathematics Conference (AIMC47), Kharazmi University, 2016.
- مهدی سبزواری، داوود پورسینا، محاسبه حد پایین فاصله توزیع گروه تا توزیع یکنواخت در قدم زدن تصادفی بر روی گروه های متناهی، نهمین کنفرانس نظریه گروه های ایران، دانشگاه کاشان، 1395.
- داوود پورسینا، مهدی سبزواری، بلوک بندی در طرح آزمایش ها با استفاده از نظریه گروه های آبلی، نهمین کنفرانس نظریه گروه های ایران، دانشگاه کاشان، 1395.
- M. Sabzevari, D. Poorsina, *Asymptotic results for the asymmetric n-player gambler's ruin problem with ties allowed*, 48th Annual Iranian Mathematics Conference, Bu-Ali Sina University, 2017.
- مهدی سبزواری، آسیه حسینوند، به کارگیری موجک هار گویا شده در حل عددی معادلات انتگرال فازی فردهلم نوع دوم، چهل و نهمین کنفرانس ریاضی ایران، دانشگاه علم و صنعت، 1397.
- مهدی سبزواری، معصومه مهموم سالکویه، حل عددی معادلات انتگرال فردهلم فازی نوع دوم با به کارگیری موجک های لژاندر، پنجاهمین کنفرانس ریاضی ایران، دانشگاه کاشان، 1399.
- **M. Sabzevari, N. Norouzi, H. Ghorbani, A New Variant of the Three Towers Problem and its Simulation**, 50th Annual Iranian Mathematics Conference, University of Kashan, 2020.

## **GRADUATE AND UNDERGRADUATE COURSES**

- **UNDERGRADUATE COURSES:** Stochastic processes, Queuing theory, Calculus 1,2, Combinatorial Mathematics, Numerical Analysis, Engineering statistics and probabilities.
- **GRADUATE COURSES:** Numerical solutions for Integral Equations, Simulations and Modeling for computer systems, Advanced Numerical Analysis, Stochastic Differential Equations.

## **COMPUTER SKILLS**

- Maple, SPSS, LaTeX, Microsoft Office.

## **LANGUAGE SKILLS**

- Persian, English.