



غلامرضا حجتی

استاد

دانشکده: ریاضی، آمار و علوم کامپیوتر



سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۷۴	ریاضی محض	دانشگاه تبریز
کارشناسی ارشد	۱۳۷۶	ریاضی کاربردی	تربیت مدرس
دکترای تخصصی	۱۳۸۳	ریاضی کاربردی	دانشگاه تبریز

اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
دانشکده ریاضی، آمار و علوم کامپیوتر	هیات علمی	رسمی قطعی	تمام وقت	

سوابق اجرایی

- معاون آموزشی و تحصیلات تکمیلی دانشگاه تبریز
- رییس دانشگاه مراغه
- رییس دانشکده ریاضی، آمار و علوم کامپیوتر (4 سال)
- معاون آموزشی دانشکده ریاضی، آمار و علوم کامپیوتر
- مدیر امور دانشجویی دانشگاه تبریز
- دبیر هیات اجرایی جذب دانشگاه تبریز

جوایز و تقدیر نامه ها

- کسب عنوان سرآمد آموزشی دانشگاه تبریز
- کسب عنوان پژوهشگر برتر دانشکده ریاضی، آمار و علوم کامپیوتر
- کسب عنوان پژوهشگر برتر استان آذربایجانشرقی در حوزه علوم پایه

موضوعات تدریس تخصصی

- آنالیز عددی
- حل عددی معادلات دیفرانسیل

فعالیت های علمی و اجرایی

- عضو هیات ممیزه دانشگاه تبریز (4 دوره)
- عضو هیات ممیزه دانشگاه محقق اردبیلی
- عضو هیات ممیزه دانشگاه صنعتی سهند تبریز
- عضو هیات ممیزه دانشگاه صنعتی ارومیه
- رییس کارگروه تخصصی نظارت و ارزیابی عملکرد دانشگاههای دولتی استان آذربایجانشرقی
- عضو هیات تحریریه در 4 نشریه تخصصی
- دبیر اجرایی چهل و سومین کنفرانس ریاضی ایران 1391

همایش ها و کنفرانس ها

- دبیر اجرایی چهل و سومین کنفرانس ریاضی ایران، دانشگاه تبریز
- عضو کمیته علمی ششمین سمینار آنالیز عددی و کاربردهای آن، دانشگاه مراغه
- عضو کمیته علمی هشتمین سمینار آنالیز عددی و کاربردهای آن، دانشگاه کردستان
- عضو کمیته علمی نهمین سمینار آنالیز عددی و کاربردهای آن، دانشگاه گیلان
- دبیر دهمین سمینار آنالیز عددی و کاربردهای آن، دانشگاه تبریز
- عضو کمیته علمی چهاردهمین سمینار معادلات دیفرانسیل، سیستمهای دینامیکی و کاربردها، دانشگاه تحصیلات تکمیلی زنجان

عضویت در هیات تحریریه مجلات علمی و پژوهشی

عضو هیات تحریریه در نشریات:

Journal of Numerical Analysis and Optimization

Computational Methods for Differential Equations

Journal of Mathematical Modeling

Journal of Advanced Mathematical Modeling

عضویت در انجمن های علمی

عضو انجمن ریاضی ایران

عضو کمیسیون تخصصی آنالیز عددی - انجمن ریاضی ایران

1. A. Moradi , A. Abdi , G. Hojjati,Strong stability preserving second derivative general linear methods based on Taylor series conditions for discontinuous Galerkin discretizations,Journal of Scientific Computing,2024
2. M. Sharifi , A. Abdi , G. Hojjati,On the construction of diagonally implicit two–step peer methods with RK stability,Applied Numerical Mathematics,2024
3. M. Eghbaljoo , Hojjati , A. Abdi,Adaptive second derivative multistep methods for solving stiff chemical problems,Journal of Mathematical Chemistry,2024
4. On the implementation of explicit two-step peer methods with Runge-Kutta stability,Applied Numerical Mathematics,2023
5. M. Sharifi , A. Abdi , M. Brañ , G. Hojjati,High order second derivative diagonally implicit multistage integration methods for ODEs,Mathematical Modelling and Analysis,2023
6. Strong stability preserving integrating factor general linear methods,Computational and Applied Mathematics,2023
7. R. Akbari , G. Hojjati , A. Abdi,Algebraic stability and irreducibility of second derivative methods,Applied Numerical Mathematics,2023
8. A. Moradi , A. Abdi , G. Hojjati,RK-stable second derivative multistage methods with strong stability preserving based on Taylor series conditions,Computational and Applied Mathematics,2023
9. T. Majidi , A. Abdi , G. Hojjati,Generalized second derivative linear multistep methods for ordinary differential equations,Numerical Algorithms,2022
10. A. Moradi , A. Abdi , G. Hojjati,HIGH ORDER EXPLICIT SECOND DERIVATIVE METHODS WITH STRONG STABILITY PROPERTIES BASED ON TAYLOR SERIES CONDITIONS,ANZIAM journal,Vol. 64,pp. 264-291,2022
11. A. Abdi , G. Hojjati , G. Izzo , Z. Jackiewicz,Global error estimation for explicit general linear methods,Numerical Algorithms,2022
12. A. Abdi , G. Hojjati , G. Izzo , Z. Jackiewicz,Global error estimation for explicit second derivative general linear methods,Numerical Algorithms,2022
13. A. Abdi , G. Hojjati , L. Taheri Koltape,Extended SDBDF-Type Methods Based on Linear Barycentric Rational Interpolants for ODEs,Bulletin of the Iranian Mathematical Society,2022
14. A. Moradi , A. Abdi , G. Hojjati,Implicit-explicit second derivative general linear methods with strong stability preserving explicit part,Applied Numerical Mathematics,2022
15. S. Fazeli ,& G. Hojjati,A class of two-step collocation methods for Volterra integro-differential equations,Applied Numerical Mathematics,2022
16. P. RAMAZANI , A. ABDI , G. HOJJATI , A. MORADI,EXPLICIT NORDSIECK SECOND DERIVATIVE GENERAL LINEAR METHODS FOR ODES,ANZIAM Journal,2022
17. B. Talebi , A. Abdi , G. Hojjati,Composite symmetric second derivative general linear methods for Hamiltonian systems,Calcolo,2022
18. A. Moradi , A. Abdi , G. Hojjati,Strong stability preserving implicit and implicit–explicit second derivative general linear methods with RK stability,Computational and Applied Mathematics,2022
19. G. Hojjat ,& L. Taheri Koltape,On the stability functions of second derivative implicit advanced-step point methods,Journal of Mathematical Modeling,2022
20. A. Abdi ,& G. Hojjati,Second derivative backward differentiation formulae for ODEs based on barycentric rational interpolants,Numerical Algorithms,2021
21. Z. Esmaeelzadeh , A. Abdi , G. Hojjati,EBDF-type methods based on the linear barycentric rational interpolants for stiff IVPs,Journal of Applied Mathematics and Computing,2021
22. A. Jalilian , A. Abdi , G. Hojjati,Variable stepsize SDIMSIMs for ordinary differential equations,Applied Numerical Mathematics,2021
23. A.Y.J. Almasoodi , A. Abdi , G. Hojjati,A GLMs-based difference-quadrature scheme for Volterra integro-differential equations,Applied Numerical Mathematics,2021

- A. Abdi , G. Hojjati , M. Sharifi,Implicit–explicit second derivative diagonally implicit .24
 .multistage integration methods,Computational and Applied Mathematics,2020
- S. Fazeli ,& G. Hojjati,Second derivative two-step collocation methods for ordinary differential .25
 .equations,Applied Numerical Mathematics,2020
- A. Abdi ,& G. Hojjati,Projection of Second Derivative Methods for Ordinary Differential .26
 .Equations with Invariants,Bulletin of the Iranian Mathematical Society,2020
- A. Abdi , G. Hojjati , Z. Jackiewicz , H. Mahdi,A new code for Volterra integral equations .27
 .based on natural Runge-Kutta methods,Applied Numerical Mathematics,2019
- H. Mahdi , Hojjati , A. Abdi,On the numerical stability of the general linear methods for .28
 .Volterra integro-differential equations,Applied Numerical Mathematics,2019
- H. Mahdi , G. Hojjati , A. Abdi,Explicit General Linear Methods with a Large Stability Region .29
 .for Volterra Integro-differential Equations,Mathematical Modelling and Analysis,2019
- H. Mahdi , A. Abdi , G. Hojjati,Efficient general linear methods for a class of Volterra integro- .30
 .differential equations,Applied Numerical Mathematics,2018
- N. Yousefzadeh , G. Hojjati , A. Abdi1,Construction of Implicit–Explicit Second-Derivative BDF .31
 .Methods,Bulletin of the Iranian Mathematical Society,2018
- M. Hosseini Nasab , A. Abdi , G. Hojjati,Symmetric second derivative integration .32
 .methods,Journal of Computational and Applied Mathematics,2018
- N. Barghi Oskouie , A. Abdi , G. Hojjati,Efficient second derivative methods with extended .33
 .stability regions for non-stiff IVPs,Computational and Applied Mathematics,2018
- N. Barghi Oskouie ,& A. AbdiG. Hojjati,Some efficient Nordsieck integration methods for .34
 .IVPs,Iranian Journal of Numerical Analysis and Optimization,2018
- A. Movahedinejad , G. Hojjati , A. Abdi,Construction of Nordsieck Second Derivative General .35
 .Linear Methods with Inherent Quadratic Stability,Mathematical Modelling and Analysis,2017
- M. Hosseini Nasab , G. Hojjati , A. Abdi,A Class of Methods with Optimal Stability Properties .36
 for the Numerical Solution of IVPs: Construction and Implementation,International Journal of
 .Computational Methods,2017
- M. Hosseini Nasab , G. Hojjati , A. Abdi,G-symplectic second derivative general linear .37
 .methods for Hamiltonian problems,Journal of Computational and Applied Mathematics,2017
- A. Movahedinejad , G. Hojjati , A. Abdi,Second derivative general linear methods with inherent .38
 .Runge–Kutta stability,Numerical Algorithms,2016
- A. Abdi , S. Fazeli , G. Hojjati,Construction of efficient general linear methods for stiff .39
 .Volterra integral equations,Journal of Computational and Applied Mathematics,2016
- A. Movahedinejad , A. Abdi , G. Hojjati,A hybrid method with optimal stability properties for .40
 the numerical solution of stiff differential systems,Computational Methods for Differential
 .Equations,2016
- G. Hojjati,A class of parallel methods with superfuture points technique for the numerical .41
 .solution of stiff systems,Journal of Modern Methods in Numerical Mathematics,2015
- S. Fazeli , G. Hojjati , S. Shahmorad,Multistep collocation and iterated multistep collocation .42
 methods for solving two-dimensional Volterra integral equations,Journal of Modern Methods in
 .Numerical Mathematics,2015
- S. Fazeli ,& G. Hojjati,Numerical solution of Volterra integro-differential equations by .43
 .superimplicit multistep collocation methods,Numerical Algorithms,2015
- A. K. Ezzeddine , G. Hojjati , A. Abdi,Perturbed second derivative multistep methods,Journal .44
 .of Numerical Mathematics,2015
- A. Abdi ,& G. Hojjati,Implementation of Nordsieck second derivative methods for stiff .45
 .ODEs,Applied Numerical Mathematics,2015
- A. Abdi ,& G. Hojjati,High order second derivative methods with Runge-Kutta stability for the .46
 .numerical solution of stiff ODEs,Iranian Journal of Numerical Analysis and Optimization,2015
- A. Abdi , M. Bras´ , G. Hojjati,On the construction of second derivative diagonally implicit .47

- .multistage integration methods for ODEs, Applied Numerical Mathematics, 2014
- A. K. Ezzeddine , G. Hojjati , A. Abdi, Sequential second derivative general linear methods for .48
.stiff systems, Bulletin of the Iranian Mathematical Society, 2014
- G. Hojjati , A. Abdi , F. Mirzaee , S. Bimesl, Numerical solution of stiff systems of differential .49
equations arising from chemical reactions, Iranian Journal of Numerical Analysis and
.Optimization, 2014
- S. Ashrafi , M. Alineia , H. Kheiri , G. Hojjati, Spectral Collocation Method for the Numerical .50
.Solution of the Gardner and Huxley Equations, International Journal of Nonlinear Science, 2014
- S. Fazeli , G. Hojjati , H. Kheiri, A Piecewise Approximation for Linear Two Dimensional .51
Volterra Integral Equation by Chebyshev Polynomials, International Journal of Nonlinear
.Science, 2013
- B. Shiri , S. Shahmorad , G. Hojjati, CONVERGENCE ANALYSIS OF PIECEWISE CONTINUOUS .52
COLLOCATION METHODS FOR HIGHER INDEX INTEGRAL ALGEBRAIC EQUATIONS OF THE
.HESSENBERG TYPE, International Journal of Applied Mathematics and Computer Science, 2013
- G. Hojjati , H. Kheiri , S. Irandoust, Solving painleve equation of type 1 using homotopy Padé .53
method, Advanced Studies in Contemporary Mathematics, 2013
- S. Fazeli , G. Hojjati , S. Shahmorad, Super implicit multistep collocation methods for .54
.nonlinear Volterra integral equations, Mathematical and Computer Modelling, 2012
- S. Fazeli , G. Hojjati , S. Shahmorad, Multistep Hermite collocation methods for solving .55
.Volterra Integral Equations, Numerical Algorithms, 2012
- A. K. Ezzeddine , & G. Hojjati, Hybrid extended backward differentiation formulas for stiff .56
.systems, International Journal of Nonlinear Science, 2012
- A. Shokri , M. Rahimi , S. Shahmorad , G. Hojjati, A new two-step hybrid Obrechhoff method .57
for the numerical integration of second-order IVPs, Journal of Computational and Applied
.Mathematics, 2011
- .A. Abdi , & G. Hojjati, An extension of general linear methods, Numerical Algorithms, 2011 .58
- M. Falati , & G. Hojjati, Integration of chemical stiff ODEs using exponential propagation .59
method, Journal of Mathematical Chemistry, 2011
- A. K. Ezzeddine , & G. Hojjati, Third derivative multistep methods for stiff systems, International .60
.Journal of Nonlinear Science, 2011
- A. Abdi , & G. Hojjati, Maximal order for second derivative general linear methods with Runge- .61
.Kutta stability, Applied Numerical Mathematics, 2011
- A. K. Ezzeddine , & G. Hojjati, Hybrid extended backward differentiation formulas for stiff .62
.systems, International Journal of Nonlinear Science, 2011
- S. Fazeli , H. Kheiri , G. Hojjati, Homotopy analysis and homotopy Pade methods for mixed .63
.Volterra-Fredholm integral equations, Advanced Studies in Contemporary Mathematics, 2010
- M. Mehdizadeh Khalsarayi , M. Rahimi , G. Hojjati, The new class of super-implicit second .64
.derivative multistep methods for stiff systems, Journal of Applied Functional Analysis, 2009
- G. Hojjati , M. Rahimi , S. M. Hosseni, New second derivative multistep methods for stiff .65
.systems, Applied Mathematical Modelling, 2006
- J.C. Butcher , G. Hojjati, Second derivative methods with RK stability, Numerical .66
.Algorithms, 2005
- G. Hojjati , M. Rahimi , S. M. Hosseni, A-EBDF: An adaptive method for numerical solution of .67
.stiff systems of ODEs, Mathematics and Computers in Simulation, 2004
- S. M. Hosseini , & G. Hojjati, Matrix free MEBDF method for the solution of stiff systems of .68
.ODEs, Mathematical and Computer Modelling, 1999

۲. حل عددی معادلات دیفرانسیل معمولی

۳. روش‌های عددی برای معادلات دیفرانسیل معمولی