



## Hamidreza Tabrizidooz

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### Education

Degree	Graduated in	Major	University
BSc	2000	Pure Mathematics	University of Isfahan
MSc	2002	Pure Mathematics	University of Isfahan
Doctoral	2009	Applied Mathematics	Isfahan University of Technology

### Papers in Conferences

- حمیدرضا تبریزی دوز، معرفی یک پایه در روش گالرکین بر اساس پایه موجک چندگانه لژاندر، چهارمین کنفرانس بین المللی جبر محاسباتی، نظریه محاسباتی اعداد و کاربردها (یادبود پروفسور علی رضا اشرفی)، ۱ - کاشان، ۲۰۲۳ ۰۷ ۰۴ .
- Legendre wavelet Galerkin method for semi-discretizing one dimensional diffusion equations ,55th annual Iranian Mathematics Conference , 1 - 14 08 2024, مشهد .
- Legendre multiwavelet basis for solving boundary value problems ,4th International Conference on Computational Algebra, Computational Number Theory and Applications (Memorial of Professor Alireza Ashrafi) , 1 - 04 07 2023, کاشان .
- H.R. Tabrizidooz , M. Babaei , Haskouei ,A Chebyshev spectral method to find the extremum of the functional  $J[u]=\int_{-1}^1\int_{-1}^1[(u_x)^2+(u_y)^2-2u]dxdy$  ,The 1st Seminar on Control and Optimization ,2017.
- M. Hedayati , M. Pourbabaee , H.R. Tabrizidooz ,On the modification of pseudospectral method for optimal control of switched systems ,12th Seminar on Differential Equations and Dynamical Systems ,2015.
- H.R. Tabrizidooz ,& M. Pourbabaee ,A modified pseudospectral method for optimal control problems with nonsmooth solution ,44th Annual Iranian Mathematics Conference Conference ,2013.
- H.R. Tabrizidooz ,& B. Yousefiyan Amirkhiz ,A composite pseudospectral method for solving delay optimal control problems ,44th Annual Iranian Mathematics Conference ,2013.
- H.R. Tabrizidooz ,& H.R. Marzban ,A composite pseudospectral collocation method for nonlinear optimal control problems ,44th Annual Iranian Mathematics Conference ,2013.
- H.R. Tabrizidooz ,& M. Pourbabaee ,Solution of nonlinear optimal control problems with inequality constraints by a modified pseudospectral method ,4th Conference on Numerical Analysis and its Applications ,2013.

10. H.R. Tabrizidooz ,On the weak representations of derivative operator for a composite interpolation method ,4th Conference on Numerical Analysis and its Applications ,2013.

### Papers in Journals

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1. رؤیا وزیری دوقزلو,حمیدرضا تبریزی دوز,مصطفی شمسى,یک روش عناصر متناهی کارا برای مسائل کنترل بهینه شامل ۱۴۰۳/۰۷/۰۹,مجله علمی محاسبات نرم,ISC,معادلات پخش زمان-کسری مرتبه توزیع شده,مجله علمی محاسبات نرم,۱۴۰۳/۰۷/۰۹.
2. A direct transcription method for solving distributed-order fractional optimal control problems,Journal of Vibration and Control,2024 03 13,JCR.
3. Hamid Reza Tabrizidooz, Fatemeh Hajiramezanali.A numerical algorithm for determining time-dependent coefficient in a parabolic inverse problem using Legendre multiwavelet base (in persian).مجله علمی محاسبات نرم,۱۴۰۱,۲۶ ۰۵.
4. H.R. Tabrizidooz ,& K. Shabanpanah,Bernstein polynomial basis for numerical solution of boundary value problems,Numerical Algorithms,Vol. 77,pp. 211-228,2018.
5. H.R. Tabrizidooz , H.R. Marzban , M. Pourbabaee , M. Hedayati,A composite pseudospectral method for optimal control problems with piecewise smooth solutions,Journal of the Franklin Institute,Vol. 354,pp. 2393-2414,2017.
6. H.R. Tabrizidooz , M. Pourbabaee , M. Hedayati,Optimal control of switched systems by a modified pseudospectral method,Iranian Journal of Mathematical Chemistry,Vol. 8,pp. 161-173,2017.
7. H.R. Marzban ,& H.R. Tabrizidooz,A hybrid approximation method for solving Hutchinson's equation,Communications in Nonlinear Science and Numerical Simulation,Vol. 17,pp. 100-109,2012.
8. H.R. Marzban ,& H.R. Tabrizidooz,Composite interpolation method and the corresponding differentiation matrix,Bulletin of the Iranian Mathematical Society,Vol. 37,pp. 21-34,2011.
9. H.R. Marzban , H.R. Tabrizidooz , M. Razzaghi,A composite collocation method for the nonlinear Mixed Volterra-Fredholm-Hammerstein integral equations,Communications in Nonlinear Science and Numerical Simulation,Vol. 16,pp. 1186-1194,2011.
10. H.R. Marzban ,& H.R. Tabrizidooz,Solution of nonlinear delay optimal control problems using a composite pseudospectral collocation method,Communications on Pure and Applied Analysis,Vol. 9,pp. 1379-1389,2010.
11. H.R. Tabrizidooz , H.R. Marzban , M. Razzaghi,Solution of the generalized Emden-Fowler equations by the hybrid functions method,Physica Scripta,Vol. 80,2009.
12. H.R. Marzban , H.R. Tabrizidooz , M. Razzaghi,Solution of variational problems via hybrid functions,IET Control Theory and Applications,Vol. 3,pp. 1363-1369,2009.
13. H.R. Marzban , H.R. Tabrizidooz , M. Razzaghi,Hybrid functions for nonlinear initial-value problems with applications to Lane-Emden type equations,Physics Letters, Section A: General, Atomic and Solid State Physics,Vol. 372,pp. 5883-5886,2008.