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h-index (Scopus):
7
Citations (Scopus):
220

Supervised MSc Theses

#	Thesis title	By	Date
1	Numerical solution of fractional variable order partial differential equations using spectral methods	Amir Pouraghil & Farhad Fakharizadi	February 2022
2	Numerical solution of fractional integro-differential equations using spectral methods	Saber Abdollahi & Farhad Fakharizadi	October 2021
3	Numerical Solution of Space-Time Fractional Partial Differntial Equations Using Pseudo Spectral -RBF method	Farinam Sakhaei & Farhad Fakharizadi	October 2021
4	Numerical solution of inverse eigenvalue problem for symmetric matrix	Bahareh Mohsenzadeh Ganji & Farhad Fakharizadi	February 2020
5	A combination of filters and mixture of experts for classification of ECG arrhythmia	Alyaa Talib Raheem Muhi & Farhad Fakharizadi	September 2019
6	Application of Singular Value Decomposition for image representation in Face Recognition	Kiana Nezami & Farhad Fakharizadi	February 2019
7	Numerical solution of fractional differential equations using Spectral methods	Narges Mousazadeh & Farhad Fakharizadi	February 2019

Journal Papers

Portal Records

1 Farhad Fakharizadi, Narges Shabgard, "Time-space spectral Galerkin method for time-fractional fourth-order partial differential equations", JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, February 2022 Vol. 0, Num. 0, Page 0-0, February 2022,

2 Farhad Fakharizadi, "Fully spectral-Galerkin method for the one- and two-dimensional fourth-order time-fractional partial integro-differential equations with a weakly singular kernel", NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, October 2020 Vol. 0, Num. 0, Page 0-0, October 2020,

3 Farhad Fakharizadi, "Fully Petrov–Galerkin spectral method for the distributed-order time-fractional fourth-order partial differential equation", ENGINEERING WITH COMPUTERS, February 2020 Vol. 0, Num. 0, Page 0-0, February 2020,

4 Farhad Fakharizadi, "An efficient spectral-Galerkin method for solving two-dimensional nonlinear system of advection-diffusion-reaction equations", ENGINEERING WITH COMPUTERS, October 2019 Vol. 0, Num. 0, Page 0-0, October 2019,

5 Farhad Fakharizadi, Mehdi Dehghan, "Modal spectral element method in curvilinear domains", APPLIED NUMERICAL MATHEMATICS, January 2018 Vol. 128, Num. 0, Page 157-182, January 2018,

6 Farhad Fakharizadi, Mehdi Dehghan, "Fully spectral collocation method for nonlinear parabolic partial integro-differential equations", APPLIED NUMERICAL MATHEMATICS, September 2017 Vol. 123, Num. 0, Page 99-120, September 2017,

7 Farhad Fakharizadi, Mehdi Dehghan, "Space–time spectral method for a weakly singular parabolic partial integro-differential equation on irregular domains", COMPUTERS & MATHEMATICS WITH APPLICATIONS, May 2014 Vol. 67, Num. 10, Page 1884-1904, May 2014,

Conference Papers

Portal Records

1 Farhad Fakharizadi, Narges Shabgard, "A new algorithm based on Lucas polynomials for approximate solution of 2D Sobolev equation ", THE FIRST INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS, August 2021

2 Farhad Fakharizadi, Farinam Sakhaei, "Numerical solution of nonlinear space-time fractional partial differential equations with variable coefficients using RBF pseudospectral method ", THE FIRST INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS, August 2021

3 Azam Yazdani, Farhad Fakharizadi, "Fully spectral Galerkin method for the modified distributed-order anomalous sub-diffusion equation ", 51st Annual Iranian Mathematics Conference, February 2021

4 Farhad Fakharizadi, "Numerical solution of nonlinear PDEs using modal spectral element method (SEM) in complex geometries with approach of reduction of aliasing error ", 51st Annual Iranian Mathematics Conference, February 2021

Taught Courses

#	Course title	Description	Headlines	Date
1	Foundation of Numerical Analysis	The aim of the course is to give students an introduction to numeric and algorithmic techniques used for the solution of a broad range of mathematical problems, with an emphasis on computational and software issues.		Spring 2022
2	Engineering Mathematics	To equip students with adequate knowledge of mathematics that will enable them in formulating problems and solving problems analytically.		Spring 2022

3	Differential Equations	The laws of nature are expressed as differential equations. Scientists and engineers must know how to model the world in terms of differential equations, and how to solve those equations and interpret the solutions. This course focuses on the equatio		Spring 2022
4	Differential Equations	The laws of nature are expressed as differential equations. Scientists and engineers must know how to model the world in terms of differential equations, and how to solve those equations and interpret the solutions. This course focuses on the equatio		Spring 2022
5	Numerical Solution of Fractional Differential and Integral Equations	The course is aimed on introducing the methods and tools of the fractional-order calculus into engineering education		Fall 2021
6	Differential Equations	The laws of nature are expressed as differential equations. Scientists and engineers must know how to model the world in terms of differential equations, and how to solve those equations and interpret the solutions. This course focuses on the equatio		Fall 2021
7	Engineering Mathematics	To equip students with adequate knowledge of mathematics that will enable them in formulating problems and solving problems analytically.		Fall 2021
8	Numerical Solution of Ordinary Differential Equations	Many ordinary differential equations can not be solved analytically or even if the exact solution is exists, the answer is not applied. The aim of this course is students familiarity with the numerical solution of ordinary differential equations aspe		Spring 2021
9	Engineering Mathematics	To equip students with adequate knowledge of mathematics that will enable them in formulating problems and solving problems analytically.		Spring 2021
10	Differential Equations	The laws of nature are expressed as differential equations. Scientists and engineers must know how to model the world in terms of differential equations, and how to solve those equations and interpret the solutions. This course focuses on the equatio		Spring 2021
11	Differential Equations	The laws of nature are expressed as differential equations. Scientists and engineers must know how to model the world in terms of differential equations, and how to solve those equations and interpret the solutions. This course focuses on the equatio		Spring 2021