



Mathematical Sciences , Computer Science

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## Education

- Amirkabir University of Technology,

## Professional Experiences

- , 1402→1403
- , 1400→1400
- , 1400→Now
- , 1400→1400
- , 1399→Now
- , 1399→1400
- , 1398→1399
- , 1396→1398
- , 1396→1396
- , 1390→1394
- , 1388→1390

## Books

- باز اندیشی در سنجش کلاسی تاملی بر سنجش برای یادگیری سنجش به عنوان یادگیری سنجش یادگیری محمد عسگری، غلامرضا یادگارزاده، کوروش پرند نشر نخبگان، ایران، ۱۳۸۷

- درآمدی بر الگوهای ارزشیابی به انضمام استانداردهای ارزشیابی برنامه پرسنل و دانش آموز غلامرضا یادگارزاده، آرش بهرامی، کوروش پرند

■ برای ریاضی عمومی ۱ maple

مریم طهماسبی آبدار، کوروش پرند

سازمان فنی و حرفه ای کشور، ایران، شابک: ۹۷۸-۹۶۴-۱۵۳-۱۲۴-۴

■ الگوریتم فرااکتشافی با تاکید بر الگوریتم ژنتیک

کوروش پرند، حسن دانامزره

انتشارات آرون، ایران، ۱۴۰، ۱، شابک: ۹۷۸-۳۱۷-۶۲۲-۹۷۸-۵

■ مقدمه ای بر داده کاوی و پیش پردازش داده ها

کوروش پرند

انتشارات آرون، ایران، ۱۴۰، ۱، شابک: ۹۷۸-۳۱۷-۶۲۴-۹۷۸-۷

■ راهنمای کاربردی پایتون برای علم داده ها

کوروش پرند، علیرضا افضل آقائی نائینی

انتشارات آرون، ایران، ۱۴۰، ۱، شابک: ۹۷۸-۳۱۷-۶۲۴-۹۷۸-۶

■ الگوریتم های بدون ناظر خوش بندی

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■ Computational Statistical Methodologies and Modelling for Artificial Intelligence

Jamal Amani Rad, Hamid Reza Pouretemad, Kourosh Parand, Negar Sammaknejad

Taylor & Francis Group, ENGLAND, 2023, 0-17080-032-1-978

■ Mathematical Methods in Dynamical Systems

Amir Hodein Hadian Rasanan, Mohammad Mahdi Moayeri, Jamal Amani Rad, Kourosh Parand

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■ Learning with Fractional Orthogonal Kernel Classifiers in Support Vector Machines: Theory, Algorithms and Applications

Jamal Amani Rad, Kourosh Parand, Snehashish Chakraverty

Springer, Singapore, 2023, 4-6552-19-981-978

■ مدلسازی، شبیهسازی و کنترل دینامیک عصبی: از تک نورون تا شبکه های عصبی

کوروش پرند، جمال امانی راد، محمد همامی، محمد مهدی معیری

دانشگاه شهیدبهشتی - تهران، ایران، ۱۴۰، ۱، شابک: ۹۷۸۹۶۴۴۵۷۲-۱۵۹

■ رویکردهای نوین روش های طیفی در محاسبات علمی: نظریه و کاربردها

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■ رویکردی نوین برای حل معادلات دیفرانسیل غیر خطی در بازه‌ی نیمه متناهی با استفاده از توابع گویا  
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■ کاربر نرم افزار اداری  
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■ مهارت اول- مفاهیم پایه فناوری اطلاعات  
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کوروش پرند، فتنه بیات بابلقانی  
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■ مهارت چهارم- صفحه گستردہ

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■ مهارت پنجم- بانک اطلاعاتی

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سازمان آموزش فنی و حرفه ای کشور، ایران، ۱۳۹۰، شابک: ۹۷۸۹۶۴۱۵۳۲۴۱۵

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■ مهارت سوم واژه پرداز Word

کوروش پرند، مریم عیوضی

سازمان آموزش فنی و حرفه ای کشور، ایران، ۱۳۸۹، شابک: ۹۷۸۹۶۴۱۵۳۲۴۳۹

■ دور کاری

کوروش پرند، حسین خنیفر، محمد حسین حاجی لو، آرش بهرامی

سازمان آموزش فنی و حرفه ای کشور، ایران، ۱۳۸۹، شابک: ۹۷۸۹۶۴۱۵۳۲۴۹۱

■ انتخاب رشته انتخاب آینده

کوروش پرند، غلامرضا یادگار زاده

مرکز انتشارات سازمان سنجش آموزش کشور، ایران، ۱۳۸۷، شابک: ۴۹-۲۶۷۰-۹۶۴-۹۷۸

■ ارزشیابی کیفیت در آموزش عالی : مفاهیم اصول روش‌ها معیارها

رضامحمدی، جلیل فتح آبادی، غلامرضا یادگارزاده، محمدحسن میرزامحمدی، کوروش پرند

مرکز انتشارات سازمان سنجش آموزش کشور، ایران، ۱۳۸۵

## Industry Collaborations

ارائه خدمات مشاوره در زمینه نقش پارک‌های علم و فناوری واقعی و مجازی در توسعه زیر ساخت‌های صنعت آب و برق در همکاری با مراکز

دانشگاهی و پژوهشی و تعریف پژوهش‌های اقتصادی و اجتماعی و ایجاد اشتغال مولود

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## Journal Papers

■ Novel solution for heat and mass transfer of a MHD micropolar fluid flow on a moving plate with suction and injection

F. Baharifard, Kourosh Parand, M. M. Rashidi

ENGINEERING WITH COMPUTERS

■ A new numerical learning approach to solve general Falkner-Skan model

Zeinab Hajimohammadi, F. Baharifard, Kourosh Parand

ENGINEERING WITH COMPUTERS

■ Unsteady flow of gas in a semi-infinite porous medium: a numerical investigation by using RBF-DQM

Kourosh Parand, Soleiman Hashemi-Shahraki, Mohammad Hemami

INDIAN JOURNAL OF PHYSICS

■ Least squares support vector regression for solving Volterra integral equations

Kourosh Parand, M. Razzaghi, Reza Sahleh, M. Jani

ENGINEERING WITH COMPUTERS

■ How spatial attention affects the decision process: looking through the lens of Bayesian hierarchical diffusion model & EEG analysis

Amin Ghaderi Kangavari, Kourosh Parand, Reza Ebrahimpour, Michael D. Nunez, Jamal Amani Rad

Journal of Cognitive Psychology, Vol.35, pp. 456-479, 2023

■ Neuro-cognitive models of single-trial EEG measures describe latent effects of spatial attention during perceptual decision making

Amin Ghaderi Kangavari, Jamal Amani Rad, Kourosh Parand, Michael D. Nunez

JOURNAL OF MATHEMATICAL PSYCHOLOGY, Vol.111, 2022

■ FPGA-orthopoly: a hardware implementation of orthogonal polynomials

M. Asghari, Amir Hosein Hadian Rasanan, S. Gorgin, Dara Rahmati, Kourosh Parand

ENGINEERING WITH COMPUTERS, Vol.39, pp. 2257-2276, 2022

■ The novel learning solutions to nonlinear differential models on a semi-infinite domain

Z. Hajimohammadi, S. Shekarpaz, Kourosh Parand

ENGINEERING WITH COMPUTERS, Vol.39, pp. 2169-2176, 2022

■ A Novel Learning Approach for Different Profile Shapes of Convecting-Radiating Fins Based on Shifted Gegenbauer LSSVM

Elyas Shivanian, Zeinab Hajimohammadi, Fatemeh Baharifard, Kourosh Parand, Ramin Kazemi

New Mathematics and Natural Computation, Vol.151, pp. 1-21, 2022

■ Efficient image denoising technique using the meshless method: Investigation of operator splitting RBF collocation method for two anisotropic diffusion-based PDEs

Yasaman Lotfi, Kourosh Parand

COMPUTERS and MATHEMATICS WITH APPLICATIONS, Vol.113, pp. 315-331, 2022

■ Anti-aliasing of gray-scale/color/outline images: Looking through the lens of numerical approaches for PDE-based models

Yasaman Lotfi, Kourosh Parand

COMPUTERS and MATHEMATICS WITH APPLICATIONS, Vol.113, pp. 130-147, 2022

■ A machine learning approach for solving inverse Stefan problem

Kourosh Parand, Ghazal sadat Ghaemi javid, Mostafa Jani

International Journal of Nonlinear Analysis and Applications, Vol.13, pp. 2233-2246, 2022

■ Learning nonlinear dynamics with behavior ordinary/partial/system of the differential equations: looking through the lens of orthogonal neural networks

Mohammad Omidi, Bahare Arab, Amir Hosein Hadian Rasanan, Jamal Amani Rad, Kourosh Parand

ENGINEERING WITH COMPUTERS, Vol.38, pp. 1635-1654, 2022

■ NPDS toolbox: Neural population (De) synchronization toolbox for MATLAB

Mohammad Mahdi Moayeri, Mohammad Hemami, Jamal Amani Rad, Kourosh Parand

NEUROCOMPUTING, Vol.506, pp. 206-212, 2022

■ Numerical simulation of Volterra-Fredholm integral equations using least squares support vector regression

Kourosh Parand, Milad Hasani, M. Jani, Hafez Yari

COMPUTATIONAL and APPLIED MATHEMATICS, Vol.40, pp. 246-300, 2021

■ Parallel LS-SVM for the numerical simulation of fractional Volterra's population model

Kourosh Parand, Alireza Afzal Aghaei, M. Jani, A. Ghodsi  
AEJ - Alexandria Engineering Journal, Vol.60, pp. 5637-5647, 2021

■ Numerical learning approximation of time-fractional sub diffusion model on a semi-infinite domain

Zeinab Hajimohammadi, Kourosh Parand  
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■ A new approach to the numerical solution of Fredholm integral equations using least squares-support vector regression

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■ Phase distribution control of neural oscillator populations using local radial basis function meshfree technique with application in epileptic seizures: A numerical simulation approach

Mohammad Hemami, Jamal Amani Rad, Kourosh Parand  
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■ Least squares support vector regression for differential equations on unbounded domains

Aida Pakniyat, Kourosh Parand, M. Jani  
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Mehdi Delkhosh, Kourosh Parand  
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Mohammad Mahdi Moayeri, Jamal Amani Rad, Kourosh Parand  
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■ Fractional Chebyshev deep neural network (FCDNN) for solving differential models

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■ Numerical study of temperature distribution in an inverse moving boundary problem using a meshless method

Yasaman Lotfi, Kourosh Parand, Kamal Rashedi, Jamal Amani Rad  
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■ Numerical Simulation of Flow over Non-Linearly Stretching Sheet Considering Chemical Reaction and Magnetic Field

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■ Dynamical behavior of reaction-diffusion neural networks and their synchronization arising in modeling epileptic seizure: A numerical simulation study

Mohammad Mahdi Moayeri, Jamal Amani Rad, Kourosh Parand  
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■ The use of space-splitting RBF-FD technique to simulate the controlled synchronization of neural networks arising from brain activity modeling in epileptic seizures

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■ A single layer fractional orthogonal neural network for solving various types of Lane-Emden equation

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■ Simulation of nonlinear fractional dynamics arising in the modeling of cognitive decision making using a new fractional neural network

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Mohammad Mahdi Moayeri, Amir Hosein Hadian Rasanan, S. Latifi, Kourosh Parand, Jamal Amani Rad  
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■ Two Efficient Computational Algorithms to Solve the Nonlinear Singular Lane-Emden Equations

Kourosh Parand, Amin Ghaderi Kangavari, M. Delkosh  
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■ Exponential Solution for the Natural Convection of a Darcian Fluid About a Full Cone in a Porous Medium

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■ Imposing various boundary conditions on positive definite kernels

Babak Azarnavid, Mohammad Nabati, Mahdi Emamjome, Kourosh Parand  
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Mohammad Hemami, Kourosh Parand, Jamal Amani Rad  
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■ Solving two-dimensional integral equations of the second kind on non-rectangular domains with error estimate

Kourosh Parand, Hafez Yari, Mehdi Delkhosh  
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■ A rational approximation to the boundary layer flow of a non-Newtonian fluid

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■ Chebyshev Wavelet Method for Solving Radiative Transfer Equation in a Slab Medium

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- New numerical method based on Generalized Bessel function to solve nonlinear Abel fractional differential equation of the first kind

Kourosh Parand, Mehran Nikarya

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- The Legendre wavelet method for solving the steady flow of a third-grade fluid in a porous half space

Simin Shekarpaz, Kourosh Parand, Hossein Azari

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- A comparison of Newton-Raphson method with Newton-Krylov generalized minimal residual (GMRes) method for solving one and two dimensional nonlinear Fredholm integral equations

Kourosh Parand, Hafez Yari, Reza Taheri, Simin Shekarriz

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- Numerical study of a multidimensional dynamic quantum model arising in cognitive psychology especially in decision making

Kourosh Parand, Mohammad Mahdi Moayeri, Sobhan Latifi, Jamal Amani Rad

European Physical Journal Plus, Vol.134, pp. 109-126, 2019

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- A hybrid numerical method to solve nonlinear parabolic partial differential equations of time-arbitrary order

Mehdi Delkhosh, Kourosh Parand

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- Generalized pseudospectral method: Theory and applications

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- Application of Bessel functions and Jacobian free Newton method to solve time-fractional Burger equation

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- An efficient numerical method for solving nonlinear Thomas-Fermi equation

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- Using modified generalized Laguerre functions QLM and collocation method for solving an EyringPowell problem

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- The pseudospectral Legendre method for solving the HIV infection model of CD4T cells.

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■ Generalized Lagrange Jacobi Gauss-Lobatto (GLJGL) Collocation Method for Solving Linear and Nonlinear Fokker-Planck Equations

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- Using singular value decomposition in a convolutional neural network to improve brain tumor segmentation accuracy  
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