

1. Record Nr.	UNINA9910627266103321
Titolo	Advances in Mathematical Modelling, Applied Analysis and Computation : Proceedings of ICMMAAC 2021 // edited by Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Carlo Cattani, Devendra Kumar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-19-0179-1
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XXIII, 626 p. 273 illus., 228 illus. in color.)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 415
Disciplina	006.3
Soggetti	Computational intelligence Engineering mathematics Telecommunication Quantitative research Artificial intelligence Computational Intelligence Engineering Mathematics Communications Engineering, Networks Data Analysis and Big Data Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A collection of Hilfer fractional Opial inequalities -- On a nonlinear diffusion model of wood impregnation: Analysis, approximate solutions and experiments with relaxing boundary conditions -- Algorithmic Complexity-based Fractional-order Derivatives in Computational Biology -- Case study of non singular kernel model for MHD boundary layer flow of a rate type fluid over an oscillating plate -- Multi-layer Perceptron Artificial Neural Network Approach for Solving Sixth-Order Two-Point Boundary Value Problems -- Wavelet transform on generalized quotient spaces and its applications -- Certain image formulae of the incomplete I-function under the conformable and pathway fractional integral and derivative operators -- Explicit exact solutions and conservation laws of modified equation -- Some

Approximation results on Durrmeyer modification of generalized Szasz-Mirakjan operators -- Fuzzy Approach to Solve General De-Novo Programming Problem.

Sommario/riassunto

This book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation. It includes selected peer-reviewed papers presented at the 4th International Conference on Mathematical Modelling, Applied Analysis and Computation (ICMMAAC 2021), held at JECRC University, Jaipur, India, during August 5–7, 2021. The book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories, which can be used to analyze different kinds of mathematical models. Applications of mathematical methods in physics, chemistry, biology, mechanical engineering, civil engineering, computer science, social science, and finance are presented.
