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this book introduces a semi analytical method improved residual power series method irpsm for solving boundary value problems bvps unlike traditional numerical and analytical techniques irpsm offers quick convergence and minimal computational time avoiding the pitfalls of round off errors linearization perturbation and discretization this innovative approach has been rigorously compared with existing methods demonstrating superior accuracy and efficiency the book is meant for scholars researchers and students in mathematics engineering and physics this book explores the application of irpsm to a wide range of problems including ordinary and partial differential equations multi point bvps and complex systems in physics and engineering highlights irpsm for its ability to efficiently handle highly nonlinear and complex boundary value problems providing accurate solutions with reduced computational effort demonstrates the method s applicability across disciplines such as fluid dynamics and engineering provides mathematica codes for each solved problem allowing readers to understand the solution procedure and implement irpsm in their own research offers a new and efficient method for solving bvps and a practical reference for those seeking to minimize computational time and error in their work

this book constitutes the refereed proceedings of the 8th mexican international conference on artificial intelligence micai 2009 held in guanajuato mexico in november 2009 the 63 revised full papers presented together with one invited talk were carefully reviewed and selected from 215 submissions the papers are organized in topical sections on logic and reasoning ontologies knowledge management and knowledge based systems uncertainty and probabilistic reasoning natural language processing data mining machine learning pattern recognition computer vision and image processing robotics planning and scheduling fuzzy logic neural networks intelligent tutoring systems

bioinformatics and medical applications hybrid intelligent systems and evolutionary algorithms

this book constitutes the refereed proceedings of the 21st international triz future conference on automated invention for smart industries tfc 2021 held virtually in september 2021 and sponsored by ifip wg 5.4 the 28 full papers and 8 short papers presented were carefully reviewed and selected from 48 submissions they are organized in the following thematic sections inventiveness and triz for sustainable development triz intellectual property and smart technologies triz expansion in breadth and depth triz data processing and artificial intelligence and triz use and divulgation for engineering design and beyond chapter domain analysis with triz to define an effective design for excellence is available open access under a creative commons attribution 4.0 international license via link.springer.com

this multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications this seventh volume collects authoritative chapters covering several applications of fractional calculus in engineering life and social sciences including applications in biology and medicine mechanics of complex media economy and electrical devices

the artificial life term appeared more than 20 years ago in a small corner of new mexico usa since then the area has developed dramatically many researchers joining enthusiastically and research groups sprouting everywhere this frenetic activity led to the emergence of several strands that are now established in themselves we are now reaching a stage that one may describe as maturer with more rigour more benchmarks more results more stringent acceptance criteria more applications in brief more sound science this which is the natural path of all new areas comes at a price however a certain enthusiasm a certain adventurousness from the early years is fading and may have been lost on the way the field has become more reasonable to counterbalance this and to encourage lively discussions a conceptual track where papers were judged on criteria like importance and or novelty of the concepts proposed rather than the experimental theoretical results has been introduced this year a conference on a theme as broad as artificial life is bound to be very diverse but a few tendencies emerged first fields like robotics and autonomous

agents or evolutionary computation are still extremely active and keep on bringing a wealth of results to the a life community even there however new tendencies appear like collective robotics and more speci cally self assembling robotics which represent now a large subsection second new areas appear

this book highlights the latest advances and outlines future trends in aqueous solvation studies from the perspective of hydrogen bond transition by charge injection which reconciles the solvation dynamics molecular nonbond interactions and the extraordinary functionalities of various solutes on the solution bond network and properties focus is given on ionic and dipolar electrostatic polarization o h nonbond interaction anti hb and super hb repulsion and solute solute interactions its target audience includes researchers scientists and engineers in chemistry physics surface and interface science materials science and engineering

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