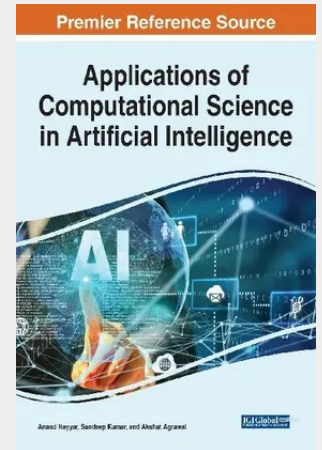


Applications of Computational Science in Artificial Intelligence

With the advent of computational science, many complex scientific problems can be solved in an effortless manner. The agenda of computational science primarily focused on understanding, learning, and prediction. Usually, computational science refers a combination of computer science and applied mathematics. In this field various statistical technique used for sculpting and simulation of complicated system. Computational Science in collaboration with engineering is act like a bridge between hypothesis and experimentation. Nowadays It is essential for most of the current research areas to use computational methods and their application to automate the processes. It is also contributing to policy and decisions related to human health, resources, transportation, and defense. Computational science is inherently interdisciplinary. Its objectives relate to identifying and evaluating complicated systems, foreseeing their performance, and enhancing procedures and strategies. Computational science thus escalates various applications, with the use of its core and powerful algorithms. Computational science also solves pattern recognition problems like verification and validation. However, it has some uncertainty quantification such as analysis and assimilation of large and complex data sets, including techniques for visualization and animation; and the design of flexible Computational software. This book delivers technological solutions to improve smart technologies in architecture, healthcare, and environment sustainability. It covers the areas of computational solutions, computation frameworks, smart prediction, healthcare solutions using computational informatics and more.

Computational science, in collaboration with engineering, acts as a bridge between hypothesis and experimentation. It is essential to use computational methods and their applications in order to automate processes as many major industries rely on advanced modeling and simulation. Computational science is inherently interdisciplinary and can be used to identify and evaluate complicated systems, foresee their performance, and enhance procedures and strategies. Applications of Computational Science in Artificial Intelligence delivers technological solutions to improve smart technologies architecture, healthcare, and environmental sustainability. It also provides background on key aspects such as computational solutions, computation framework, smart prediction, and healthcare solutions. Covering a range of topics such as high-performance computing and software infrastructure, this reference work is ideal for software engineers, practitioners, researchers, scholars, academicians, instructors, and students.



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