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Applications of Advanced Mathematical Methods to Solve Real World Problems

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Call for Chapters
Applications of Advanced Mathematical Methods to Solve Real World Problems

Aims and Scope:

The aim and scope of applying advanced mathematical methods to solve real-world problems are to harness the power of mathematical techniques and theories to address complex, practical challenges across various domains. This interdisciplinary approach brings together theoretical mathematical concepts and their practical applications, resulting in innovative solutions and insights that may not be achievable through traditional methods alone. Here's a more detailed overview of the aim and scope.The primary aim is to leverage advanced mathematical methods to provide accurate, efficient, and robust solutions to real-world problems that might be difficult or even impossible to solve using conventional approaches. By combining theoretical rigor with computational tools, these methods aim to enhance our understanding of complex systems, optimize processes, make predictions, and inform decision-making.The scope also includes the development of new mathematical theories and methodologies specifically tailored to address real-world challenges. These advancements often require collaboration between mathematicians, domain experts, and researchers from various fields.

1. Engineering and Physics
2. Finance and Economics.
3. Computer Science and Machine Learning.
4. Biology and Medicine
5. Environmental Science
6. Social Sciences
7. Operations Research and Optimization.
8. Telecommunications and Signal Processing
9. Astronomy and Astrophysics

List of Topics :
1. Partial Differential Equations (PDEs)
2. Numerical Analysis
3. Optimization Theory
4. Statistics and Data Analysis
5. Differential Geometry
6. Complex Systems Modelling
7. Stochastic Processes
8. Numerical Simulation
9. Inverse Problems
10. Wavelet Analysis
11. Computational Fluid Dynamics
12. Graph Theory and Networks
13. Mathematical Biology
14. Fixed point theory

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