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Futuristic Trends in High Performance Computing and Software Development



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Call for Chapters

Futuristic Trends in High Performance Computing and Software Development

Aims and Scope:

The book's aim would be to provide a comprehensive understanding of the transformative trends, breakthroughs, and challenges in the field of HPC, with an emphasis on future developments. It aims to explore how HPC will continue to evolve and its potential impact across industries such as artificial intelligence (AI), data science, quantum computing, climate modeling, and more. The goal is to provide researchers, practitioners, and students with a forward-looking perspective on HPC and inspire new research, applications, and innovations.

List of Topics :

- Emerging HPC Architectures
- Advanced Parallel Computing Models
- Integration of AI and Machine Learning in HPC
- Energy Efficiency and Sustainability in HPC
- Data Management and Storage Solutions for HPC
- Edge and Fog Computing Integration
- Quantum Computing and HPC
- Software Ecosystem and Programming Models
- Applications in Science, Engineering, and Industry
- Security and Privacy in HPC
- Future Challenges and Research Directions

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