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Cyberinfrastructure Collaboration: Towards Accelerated Impact - The Role of Being a Good Ancestor

Monday, 2 December 2024 09:45 (45 minutes)

In the rapidly evolving landscape of High-Performance Computing (HPC), the theme of “Cyberinfrastructure Collaboration: Towards Accelerated Impact” underscores the critical need for synergistic efforts to drive innovation and societal progress. This keynote presentation will explore the profound concept of being a “good ancestor” and its pivotal role in shaping impactful cyberinfrastructure collaborations.

As we delve into the intricacies of HPC, we must recognize that our technological advancements are not just for the present but are legacies for future generations. Being a good ancestor involves making conscientious decisions that prioritize sustainability, ethical considerations, and long-term benefits over short-term gains. This perspective encourages us to build resilient and adaptable cyberinfrastructures that can withstand the test of time and evolving challenges.

The presentation will highlight key strategies for fostering effective collaborations that embody the principles of good ancestry. These include:

1. Sustainable Design and Development: Emphasizing eco-friendly practices and energy-efficient technologies to minimize environmental impact.
2. Ethical Data Management: Ensuring data privacy, security, and equitable access to information.
3. Inclusive Innovation: Promoting diversity and inclusivity in research and development to harness a wide range of perspectives and talents.
4. Long-term Vision: Planning and implementing projects with a foresight that considers future societal needs and potential technological advancements.

By integrating these principles, we can create a cyberinfrastructure that accelerates current impact and lays a robust foundation for future generations. This approach enhances the immediate benefits of our collaborations and ensures that we leave a positive and enduring legacy.

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