Emerging Research Surrounding Power Consumption and Performance Issues in Utility Computing

Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing (ASASEHPC) Book Series

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Description:

Like electricity and water, data and computing power are necessary commodities in the modern-day economy. A model for the effective regulation and provisioning of computational services will follow a similar paradigm as the existent model for traditional utilities.

Emerging Research Surrounding Power Consumption and Performance Issues in Utility Computing explores methods of treating computing resources and materials as a standard utility, charging customers based on their usage and promoting competition among service providers.

This book includes emerging research on subjects including, but not limited to, Graphical Processing Unit (GPU) architectures, green computing, VMware, and device manufacturing techniques.

Readers:

This book provides an in-depth discussion of the utility computing paradigm for computer engineers, service providers, consumers, and academics in the field of computer science.

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Topics Covered:

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