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Overview of Green Cloud Computing

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Abstract: Cloud computing is a vital field of information and communication technologies, introducing new summons for environmental protection. Cloud computing technologies have a variety of application domains, since they offer scalability, are trustworthy and reliable, and offer high performance at relatively low cost. The cloud computing revolution is redesigning modern networking, and offering promising environmental protection prospects as well as economic and technological advantages. These technologies have the potential to improve energy efficiency and to reduce carbon footprints and (e-)waste. These features can transform cloud computing into green cloud computing is given. Then, recent studies and developments are summarized, and environmental issues are specifically addressed. Finally, future research directions and open problems regarding green cloud computing are presented. This survey is intended to serve as up-to-date guidance for research with respect to green cloud computing.

Keywords: Cloud computing

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