Announcing a Special Section in IEEE Access:
Big Data for Green Communications and Computing

Submission Deadline: May 10, 2015

IEEE Access invites manuscript submissions in the area of Big Data for Green Communications and Computing.

With the rapid growth of data in the past few years, information and communication technologies have made significant impacts on global environments on both positive and negative aspects. International efforts have started to advance green energy initiatives to create sustainable energy systems to support economic and societal development. Generation of huge amounts of data, called Big Data, across different sectors such as banking, healthcare, retail and education, among others, is creating the need for an efficient tool to manage this data. Conventional database management tools do not have the capability to manage surging volumes of unstructured data. For example, more than 80% of data is unstructured in the form of videos, tweets, GPS coordinates and emails, which means that decisions need to be made at high velocity.

Data is expected to exponentially grow through data collected via pervasive sensors and/or the Internet. It also leads to new emerging challenges that have the potential to create more accurate solutions for science and technologies. We believe that big data has a significant impact on green communications and computing, which aims to provide energy-sustainable, resource-saving, and environment-friendly solutions. But how can one leverage the use of Big Data technology in order to become really green?

For this Special Section in IEEE Access, we invite academic and industrial researchers to identify and discuss technical challenges and recent results on new concepts and technologies to achieve green communications and computing, as well as new ideas in big data for green communications and computing applications and services. The contributions may present novel concepts, ideas, models, methodologies, system design, and experiments for providing objective comparisons between potential ideas and solutions. Topics of interest include, but are not limited to: Big Data for green network modeling, green networking and protocols, green communication management, green network architecture design, green data center networking and computing, green network security, privacy, and trust, and green network fault tolerance.

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