

Data Mining and Sustainable Systems

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Abstract

This talk will discuss a new initiative at NASA to develop a highly efficient and sustainable workplace environment which incorporates advanced lighting and electrical systems, reduced energy demand, as well as preliminary analyses of data from existing NASA facilities. We will also discuss a new research program called Environmentally Responsible Aviation (ERA) and the applications of data mining technologies in this new research program. Key problems of prediction of usage and anomaly detection for complex systems will be discussed along with a discussion of algorithms appropriate for this application domain.