

Suresh K.S. Vannan



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Suresh K.S. Vannan is a research staff in the Environmental Sciences Division (ESD) at ORNL. Suresh manages the Moderate Resolution Imaging Spectroradiometer (MODIS) Subsetting and Visualization Interface and Geospatial Data tools for the National Aeronautic and Space Administration (NASA)-sponsored ORNL DAAC. Suresh is also the manager for the GIS facility for the ESD division.

His research interests include development of tools and services for effective dissemination of geospatial data and application of remotely sensed data for citizen science efforts. Suresh received his Bachelor of Engineering in geoinformatics from Anna University (Chennai, India) in 2001. He received his MS in meteorology from the University of Maryland in 2003. After graduating, he worked in the university's geography department as a faculty research assistant, primarily managing a web-based geographic information system (GIS) mapping tool that allowed visualization of active fire locations derived from the MODIS remote sensing sensor. He also helped install a web-based mapping tool in South Africa to help the local power company and park managers obtain early warning messages about active fires.

Since 2005, Suresh has been involved in managing geospatial data visualization and download tools for the ORNL DAAC. He has developed time series and other visualization plots to help researchers understand, analyze and download MODIS remote sensing data.

His other key roles include geospatial visualization and analysis support for DOE's National Hydropower Asset/Resource Assessment program and Sun grant Bioenergy program in collaboration with University of Tennessee. Suresh also manages the GIS software, licenses, tools and services for the ESD Geographical Information Systems (GIS) facility.

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