

## Budhendra Bhaduri



### **Scientist and Group Leader, Geographic Information Science and Technology**

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Dr. Budhendra Bhaduri is a Corporate Research Fellow at Oak Ridge National Laboratory (ORNL) and leads the Geographic Information Science and Technology (GIST) group within the Computing and Computational Sciences directorate. He is a founding member of the U.S. Department of Energy's Geospatial Sciences Steering Committee. His primary responsibilities include conceiving, designing, and implementing innovative geocomputational methods and algorithms to solve a wide variety of national and global problems involving population dynamics modeling, natural resource studies, transportation modeling, critical infrastructure protection, and disaster management.

He is a principal member of the LandScan Global and LandScan USA population modeling programs at ORNL, which in 2006 won a prestigious R&D 100 award as one of the top 100 global technologies serving society. In addition to his contributions in human settlement studies, Bhaduri has extensive experience in novel implementation of geospatial science and technology in other areas of sustainable development research including human dimensions of critical infrastructure, urbanization and watershed impacts, and energy resource analysis.

In 2009, he was appointed to the Mapping Science Committee of the National Academy of Sciences/National Research Council. Bhaduri is currently a member of the Science Dean's Leadership Council at Purdue University, the Transportation Research Board's Committee on Geographic Information Science and Applications, and the Strategic Highway Research Program Expert Task Group on Acquisition of Roadway Information. Bhaduri is actively involved with academic institutions for scientific collaborations and student engagement for research in geospatial science. He is a recipient of DOE's Outstanding Mentor Award for his dedicated service to the department for developing future workforce of the nation.

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