

Statistics for Data to Information and Decision

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Abstract

The global celebration of 2013 International Year Statistics is to highlight the everyday applications of statistics in the modern society. The increased role of statistics in extracting information from data and using for decision making for the development of nations and regions is getting greater recognition world-wide. The recent evolution of data science and big data phenomenon has created further scope to apply statistical methods in real life. This presentation focuses on various aspects of statistical sciences, particularly its increasingly diverse and wide range of applications in the contemporary world. It explores the role of statistics in the evaluation of the state of affairs as well as assessing the available resources to formulate and implement collective strategies to enhance national and international development. The use of statistical methods in the decision making as well as forecasting and predicting national priorities are also covered. Furthermore, some important contributions of statistics in health, environment, industrial and manufacturing sector are highlighted. Statistical measures essential to compare local, regional and global socio-economic and geo-political development/status are discussed. Some of the remarkable impacts that statistics has made to the modern world are touched.