

Statistical Analytical Study of Traffic Accidents and Violations in the State of Kuwait and its Social and Economic Impact on the Kuwaiti Society*

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Abstract

Traffic accidents and their effects become one of the most important and dangerous challenges facing the community and individuals in their daily lives in the modern age, and because of the resulting deaths, reaching nearly one million and three hundred thousand cases a year and various dangerous injuries close to the fifty million cases taking into account their different consequences on the social and economic life, this is in addition to traffic violations and their impact on traffic and community public safety.

Therefore, this research aims to analytical study of traffic accidents and traffic violations committed by the driver in the State of Kuwait through the study of the number of vehicles and accidents, injuries and deaths that result from these accidents in addition to the number of violations that are continuously growing and the amounts collected from committing such violations and study the relationship between them through its adaptation to some of the different statistical models and appropriate probability distributions for forecasting the coming years.

The study also aims to identify the social and economic effects on the Kuwaiti society, as well as the role of government and institutions to reduce these repeated accidents and violations through the development of laws, policies and rehabilitation programs, which include some of the behavioral aspects and the process of rehabilitation and reduce the aggravation of these dangerous phenomena and costly burdens in the human life and stability in the community enjoying traffic public safety.

Keywords

Accidents, violations, statistical analysis, statistical and probabilistic models, predict or forecast.

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Biography

Basel M. Al-Eideh: (Ph.D. in Statistics (1992) from Colorado State University, USA; M.Sc. Statistics (1984) and B.Sc. Statistics from Yarmouk University, Jordan). The recipient of the Shoman Prize for Young Arab Scientists in Mathematical Sciences in 1995, He presides as an Associate Professor of Statistics at Kuwait University. Specializing in Applied Probability and Stochastic Processes, and in Operations Researches, Dr. Al-Eideh conducts researches in mathematical models for population growth, stochastic processes and their applications in physics, ecology, biology, economics and communication problems, statistical inference for stochastic processes, and time series modeling and applications, applications of statistics and probability theory to demography, insurance, economics, business, public health, medical and social sciences. His publications have appeared in numerous peer-reviewed journals. He serves on the editorial board and on refereeing and reviewing journal papers of some international journals. He authored and co-authored two books: *Designing Skills for Scientific Researches and Its Statistical Analysis Using SPSS Software*; (2005) and *Criminal Statistics* (2002).