DYNAMIC FACTOR MODEL TO IDENTIFY COMMON TRENDS IN ROAD TRAFFIC ACCIDENTS IN ASIAN COUNTIRES

Samath D Dharmaratne[1], S. Samita[2]

[1]Faculty of Medicine, University of Peradeniya, Sri Lanka
[2]Faculty of Agriculture, University of Peradeniya, Sri Lanka

Email: samathd@pdn.ac.lk

Often it is encountered that identifying common trends is useful in policy making. Analysis of time series separately cannot provide information since interrelated time series cannot be taken into account. Dynamic Factor Model (DFM) as an alternative to standard time series model in providing the required information is illustrated using road traffic accident data from Sri Lanka, India, Pakistan and China.