

# **An Assessment Model for Identifying Maintenance Priorities Strategy for Bridges**

*Dina Mahmoud Mohamed Elsayed Mansour ,Mahdi, khalil and Arafat*

## **Abstract**

The main purpose of this paper is to develop a model which is capable of assessing the overall condition of bridges as well as the condition of each element for the purpose of prioritizing maintenance strategies. The model will also be capable of ranking the bridges in a network according to their urgency of need for repair based on specific parameters. This paper explains how to achieve reliable assessment of a bridge starting with visual inspection and proceeding with the collection of information and carrying out in-depth investigations to achieve a reliable indication of the bridge's repair needs and its priority in the road network.

*Ain Shams Engineering Journal 2019, August*