Abstract

This article reports on a particular module of Road Maintenance Management System was developed with the purpose of distributing Roads Maintenance Fund for the road network between the implementing units. This computational model was developed by optimizing three major parameters: priority ranking model, road network length model and budget needs model.

It is concluded that the multi stage Model combining road network length, priority ranking as well as maintenance needs provides a rational approach for allocation of maintenance fund to implementing agencies.

References

2. R. Dekker, "Applications of maintenance optimization models: a review and analysis,”
19. CIDA. (2005, Canadian international Development agency. ICT as a tool for poverty Reduction. Health in north Africa and Middle east.
24. J. S. Gillespie, "ESTIMATING USER COSTS AS A BASIS FOR INCENTIVE / DISINCENTIVE AMOUNTS IN HIGHWAY CONSTRUCTION CONTRACTS," Virginia Transportation Research Council (A Cooperative Organization Sponsored by the Virginia Department of Transportation and the University of Virginia) In Cooperation with the U.S. Department of Transportation Federal Highway Administration February, 1998.
28. A. A. A. Silas O. A, Isichei C, Echejoh G. O, Manasseh M. N and Olu-Silas R. A., "Road traffic accident deaths as seen in a Tertiary Health Centre Jos University Teaching Hospital (JUTH)," presented at the Tertiary Health Centre Jos University Teaching Hospital, Nigeria, 2011

Index Terms

Computer Science Information Sciences

Keywords

Road Management System, Budget split, Asset Management, Homogeneous Sections, constrained budget, unconstrained budget, Road Fund Allocation.