

## GIS Pavement Maintenance Selection Strategy

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**Abstract :** As a practical tool, the Geographical information system (GIS) was used for data integration, collection, management, analysis, and output presentation in pavement management systems . There are many GIS techniques to improve the maintenance activities like Dynamic segmentation and weighted overlay analysis which considers Multi Criteria Decision Making process. The results indicated that the developed MPI model works sufficiently and yields adequate output for providing accurate decisions. Hence considering multi criteria to prioritize the pavement sections for maintenance, as a result of the fact that GIS maps can express position, extent, and severity of pavement distress features more effectively than manual approaches, lastly the paper also offers digitized distress maps that can help agencies in their decision-making processes.

**Keywords :** pavement, flexible, maintenance, index

**Conference Title :** ICACE 2024 : International Conference on Architectural and Civil Engineering

**Conference Location :** Chicago, United States

**Conference Dates :** May 16-17, 2024