

APPLICATIONS OF EXPERT SYSTEMS ON THE DIAGNOSES OF PAVEMENTS SURFACE DEFECTS

MICHALIS PEHLIVANIDIS

Abstract

An expert system is described with applications on the diagnoses of causes of pavement deterioration. The system interactively poses questions on surface defects until enough information is gathered to conclude on the main causes. A description is given of the most common defects and their relation to their causes as well as examples of the system operation. Possible applications of the expert system to Pavement Management are included.