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Stochastic analysis of a no-uniform surface of bridges

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Is well known that during the construction phase of a roadway, variations in the quality of the materials constituting the layers in the water content, and construction techniques can all lead to heterogeneity and longitudinal variations and cross in the pavement structure. Sometimes this spatial variation can affect the performance of both structural and functional pavement. This is because, when vehicle-related charges are applied to the pavement, these spatial variations may lead to the development of a non-uniform spatial distribution of stress, strain and deflection in the structure of floor which, in turn, can lead to uneven distribution of defects in the roadway. These defects are manifested by differences finally visible in the pavement deterioration, for example, some areas of the pavement is deficient pavement. All factors are random elements and their evolution in time and space of random functions, and by consequence or is forced to use stochastic process.

Biography

Samia Zouaoui student in 3rd year postdoc, after having finished my magister in 2009, membership in the lab of materials and construction processes within the University of mostaganem, I published several scientific articles in several scientific journals, and I participate in more than 20 international conferences.

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