Pengembangan metode penilaian kondisi jalan di Indonesia dengan menggunakan teori fuzzy

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Abstrak

The development of pavement condition assessment for Indonesia based on fuzzy set theory is presented in this paper. A method to determine membership functions used in pavement condition assessment is proposed. The effects of inclusion or omission, and weight changes of pavement parameters on pavement condition assessment using fuzzy weighted average operation are analyzed. The results of proposed method are compared with the results of Bina Marga model. The result indicates that the proposed method gives more reliable results. Inclusion or omission, and weight changes of pavement parameters can cause the differences in pavement condition assessment. The recommendations with respect to pavement condition assessment using fuzzy weighted average operation in Indonesia are given.