

## Pemodelan kinerja perkerasan jalan berbasis sistem dinamik

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### Abstrak

*This paper deals with the development of evaluation model for pavement management with emphasis on the interrelation of pavement roughness to other influencing variables; namely average speed and traffic volume. As can be expected that those three components are inter-acting one with another in discrete or instant time, so it is inevitable that a dynamic approach of analysis is new paradigm should be introduced to achieve better analysis on pavement performance. The three components are convertible and a clear indicator of economic value is easily derived from. It is then the aim of the research to represent the indicator in terms of vehicle operating cost through which more eminent rationale of costing the maintenance would directly be related to the engineering analysis. The model is applicable in the simulation model, and actively performed in the simulation software called Powersim@. Results of simulation are quite promising for any decision making or policy making within the context of pavement management since it deals with financial consideration. It is expected further that the model can be used to define and test various design parameters within the pavement construction and maintenance.*