Advances in Intelligent Systems and Computing

Volume 582, 2018, Pages 320-330

12th International Conference on Dependability and Complex Systems, DepCoS-RELCOMEX 2017; Brunow; Poland; 2 July 2017 до 6 July 2017; Код 192529

Reliability assessment of driving systems of city buses(Conference Paper)

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Краткое описание

Paper concerns reliability assessment of very sensitive subsystems from the point of view of safety of city buses analyses maladjustment of buses quality to difficult Asian operating conditions. There are discussed various factors describing operational conditions of city buses and motivation of reliability assessment of selected bus subsystems. Data base, covering times to failure of buses, was created upon real observations and enables for experimental verification of complex approach taking into account tribo-technical and statistical analysis. Failure analysis has shown weak elements in chassis and suspension. Probability failure distribution, reliability, density and hazard rate functions are assessed for leaf springs and wheel studs. Statistics is performed for mileage to first and second failure. Analysis of failure causes of some elements is shown.