Prof. Balbir Singh DHILLON  
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Selected Scholarly Contributions [Data Provided by Scopus]

Dhillon, B.S.  
**Human error in health care: An investigative study**  

Jebelli, A., Yagoub, M.C.E., Dhillon, B.S.  
**Fuzzy-based system for efficient and cost-effective control of light power consumption in autonomous vehicles**  

Hojjati-Emami, K., Dhillon, B.S., Jenab, K.  
**Reliability prediction for the vehicles equipped with advanced driver assistance systems (ADAS) and passive safety systems (PSS)**  

Jenab, K., Sarfaraz, A., Dhillon, B.S., Seyed Hosseini, S.M.  
**Dynamic MLD analysis with flow graphs**  

Bin, G.F., Gao, J.J., Li, X.J., Dhillon, B.S.  
**Early fault diagnosis of rotating machinery based on wavelet packets - Empirical mode decomposition feature extraction and neural network**  

Cheng, S., Dhillon, B.S.  
**Methodology and theory reliability and availability analysis of a robot-safety system**  

Bin, G., Jiang, Z., Li, X., Dhillon, B.S.  
**Weighted multi-sensor data level fusion method of vibration signal based on correlation function**  

Dhillon, B.S.  
**Medical equipment reliability: A review, analysis methods and improvement strategies**  

Li, X.J., Bin, G.F., Dhillon, B.S.  
**Model to evaluate the state of mechanical equipment based on health value**  

Peng, Y.-D., Guo, Y.-F., Wu, L.-T., Li, X., Xie, W.-H., Dhillon, B.S.
The main projects and development status of noise forecasting and controlling on working face in coal mine

Bin, G.-F., Li, X.-J., Dhillon, B.-S., Chu, W.-W.
Quantitative system evaluation method for equipment state using fuzzy and analytic hierarchy process

Shen, Y.-P., Wang, S.-L., Li, X.-J., Dhillon, B.S.
Multiaxial fatigue life prediction of kiln roller under axis line deflection

Li, X., Bin, G., Huang, Z., Dhillon, B.S.
Diagnosis for fatigue cracking in concealment of large-scale overloaded supporting shaft based on time series and fuzzy clustering

Li, X., Shen, Y., Dhillon, B.S.
Fatigue reliability evaluation of the kiln roller

Li, X., Bin, G., Dhillon, B.S.
Reliability analysis of an integrated and multifunctional vibration signal measuring instrument for rotary machine

Li, X., Bin, G., Dhillon, B.S., Pingyu, Z.
Reliability analysis of an axis-line measuring and management decision-making system for rotary kiln

Li, X., Bin, G., Dhillon, B.S.
A new method of multi-sensor vibration signals data fusion based on correlation function

Bin, G., Zhou, Y., Dhillon, B.S.
Multi feature parameters health state evaluation of mechanical equipment based on fuzzy-AHP methodology

Peng, Y.-D., Luo, S.-M., Guo, Y.-F., Gao, G.-H., Yan, L., Dhillon, B.S.
Inner nature and relevant research status of environmentally friendly mine machine
Zhu, P., Leng, Y., Dhillon, B.S., Bin, G.
Reliability analysis of a seepage monitoring system based on distributed optical fiber sensing

Dhillon, B.S., Cheng, S.
Probabilistic analysis of a repairable robot-safety system composed of (n-1) standby robots, a safety unit, and a switch

Jenab, K., Seyed Hosseini, S.M., Dhillon, B.S.
Dynamic reliability networks with self-healing units

Zhu, P., Dhillon, B.S., Li, X., Bin, G.
Reliability analysis of an interrogation instrument for optical fiber Bragg grating sensing

Li, X., Bin, G., Dhillon, B.S.
An evaluation method of mechanical equipment health state on the basis of fuzzy synthetic evaluation

Dhillon, B.S., Shah, A.S.
Availability analysis of a generalized maintainable three-state device parallel system with human error and common-cause failures

Jenab, K., Hosseini, S.M.S., Dhillon, B.S.
An analytical approach to assess the reliability networks with self-loop units

Jenab, K., Dhillon, B.S.
Assessment of reversible multi-state k-out-of-n:G/F/Load-Sharing systems with flow-graph models

Dhillon, B.S.
New idea generation methods for engineers

Dhillon, B.S., Liu, Y.
Human error in maintenance: A review
Dhillon, B.S., Li, Z.
Stochastic analysis of a system with redundant robots, one built-in safety unit, and common-cause failures

Dhillon, B.S., Rajendran, M.
Stochastic analysis of health care professional - Patient interactions subject to human error

Jenab, K., Dhillon, B.S.
Group-based failure effects analysis

Jenab, K., Dhillon, B.S.
Stochastic fault tree analysis with self-loop basic events

Jenab, K., Dhillon, B.S.
κ-out-of-n system with self-loop units

Dhillon, B.S.
Engineering product usability: A review and analysis techniques

Dhillon, B.S., Li, Z.
Stochastic analysis of a maintainable robot-safety system with common-cause failures

Dhillon, B.S.
Methods for performing human reliability and error analysis in health care

Dhillon, B.S., Kirmizi, F.
Probabilistic safety analysis of maintainable systems

Dhillon, B.S., Rajendran, M.
Human error in health care systems: Bibliography
Dhillon, B.S., Fashandi, A.R.M., Liu, K.L.
Robot systems reliability and safety: A review

Dhillon, B.S., Subramanian, P.
Reliability analysis of triple modular computer systems with redundant voters and restricted maintenance

Dhillon, B.S., Aleem, M.A.
Report on robot reliability and safety in Canada: a survey of robot users

Dhillon, B.S.
Note on MTTF formulae for redundant systems with Erlangian-distributed unit and common-cause times to failure

Dhillon, B.S., Yang, N.
Formulas for analyzing a redundant robot configuration with a built-in safety system

Dhillon, B.S., Fashandi, A.R.M.
Safety and reliability assessment techniques in robotics

Dhillon, B.S., Yang, N.
Stochastic analysis of an active-stand by redundant network with two types of common-cause failures

Dhillon, B.S., Yang, N.
Comparisons of block diagram and Markov method system reliability and mean time to failure results for constant and non-constant unit failure rates

Dhillon, B.S., Fashandi, A.R.M.
Robotic systems probabilistic analysis

Dhillon, B.S., Yang, N.
Reliability analysis of a repairable robot system

Dhillon, B.S.
Mean time to failure formulas for standard reliability networks with Erlangian distributed component failure times
Dhillon, B.S.
Optimum life cycle and labour costs estimation of repairable equipment

Dhillon, B.S., Yang, N.
Availability analysis of a robot with safety system

Yang, N., Dhillon, B.S.
Availability analysis of a repairable standby human-machine system

Dhillon, B.S., Yang, N.
Probabilistic analysis of a maintainable system with human error

Yang, N., Dhillon, B.S.
Stochastic analysis of a general standby system with constant human error and arbitrary system repair rates

Dhillon, B.S., Anude, O.C.
Common-cause failure analysis of a k-out-of-n:G system with non-repairable units

Dhillon, B.S.
Optimizing income of repairable reliability systems

Dhillon, B.S., Anude, O.C.
Income optimization of a repairable and redundant system

Dhillon, B.S.
Human reliability: A literature survey and review

Dhillon, B.S., Anude, O.C.
Optimizing the income of a repairable reliability system with early standby activation
Dhillon, B.S.  
Common-cause failure analysis of a k-out-of-n:G system with repairable units  

Dhillon, B.S.  
Robot safety and reliability: A review  

Dhillon, B.S., Anude, O.C.  
Common-cause failure analysis of a non-identical unit parallel system with arbitrarily distributed repair times  

Dhillon, B.S.  
Availability of a man-machine system with critical and non-critical human error  

Dhillon, B.S.  
Reliability and availability analysis of a system with warm standby and common cause failures  

Dhillon, B.S., Anude, O.C.  
Common-cause failure analysis of a parallel system with warm standby  

Dhillon, B.S.  
Common-cause failure analysis of a redundant system with non-repairable units  

Dhillon, B.S.  
Human error analysis of a standby redundant system with arbitrarily distributed repair times  

Dhillon, B.S., Anude, O.C.  
Mining equipment reliability: A review  

Dhillon, B.S.  
Failure modes and effects analysis - Bibliography  

Dhillon, B.S.  
Reliability and availability analysis of warm standby systems with common-cause failures and human errors  
Dhillon, B.S., Yang, N.
**Stochastic analysis of standby systems with common-cause failures and human errors**

Dhillon, B.S.
**Reliability testing: Bibliography**

Dhillon, B.S., Viswanath, H.C.
**Reliability analysis of a non-identical unit parallel system with common-cause failures**

Dhillon, B.S., Viswanath, H.C.
**Bibliography of literature on failure data**

Dhillon, B.S., Viswanath, H.C.
**On common-cause failures - Bibliography**

Dhillon, B.S., Viswanath, H.C.
**Bibliography of literature on testability**

Dhillon, B.S.
**Human error data banks**

Dhillon, Balbir S., Rayapati, Subramanyam N.
**Reliability modelling of systems with human errors**

Dhillon, B.S.
**Human errors: A review**