NPTEL Video Course - Management - NOC:Safety and Risk Analytics

Subject Co-ordinator - Prof. Jhareswar Maiti

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Safety and Risk Management
Lecture 2 - Hazard Triangle
Lecture 3 - Safety Ontology
Lecture 4 - Qualitative Risk Assessment
Lecture 5 - Quantitative Risk Assessment
Lecture 6 - Hazard and Risk Data - I
Lecture 7 - Hazard and Risk Data - II
Lecture 8 - Incident Investigation Data
Lecture 9 - Inspection and Audit Data
Lecture 10 - Behavioral and Organizational Safety Data
Lecture 11 - Data Dimensions and Information Quality
Lecture 12 - Missing Data Handling
Lecture 13 - Data Transformation - I
Lecture 14 - Data Transformation - II
Lecture 15 - Data Reduction - I
Lecture 16 - Data Reduction - II
Lecture 17 - Probability Distribution
Lecture 18 - Sample and Statistics
Lecture 19 - Safety Data Visualization Tools - I
Lecture 20 - Safety Data Visualization Tools - II
Lecture 21 - Safety Data Exploration
Lecture 22 - Leading and Lagging Indicators for Measuring Safety Performance
Lecture 23 - Control Charts for Safety Performance Evaluation and Monitoring
Lecture 24 - Safety Capability Analysis - I
Lecture 25 - Safety Capability Analysis - II
Lecture 26 - Safety Reports and Use of Text Analytics
Lecture 27 - Preprocessing of Text Data - I
Lecture 28 - Preprocessing of Text Data - II
Lecture 29 - Document Classification using KNN

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Lecture 30 - Topic Modeling - Latent Dirichlet Allocation
Lecture 31 - Bow-Tie Construction
Lecture 32 - Bow-Tie Quantification - I
Lecture 33 - Bow-Tie Quantification - II: Accident Scenarios/Paths
Lecture 34 - Bow-Tie Quantification - III: Accident Path Quantification
Lecture 35 - Bow-Tie Quantification - IV: Probabilistic Approach using Monte Carlo Simulation
Lecture 36 - Consequence Modeling and Risk Distribution
Lecture 37 - Introduction to Predictive Safety and Risk Analytics
Lecture 38 - Logistic Regression
Lecture 39 - Application of Logistic Regression
Lecture 40 - Classification and Regression Tree (CART)
Lecture 41 - Classification and Regression Tree (CART): Case Study
Lecture 42 - Support Vector Machine
Lecture 43 - Support Vector Machine (Continued...)
Lecture 44 - Application of Support Vector Machine
Lecture 45 - Association Rule Mining
Lecture 46 - Application of Association Rule Mining
Lecture 47 - Statistical Measures of Safety Program Effectiveness - I
Lecture 48 - Statistical Measures of Safety Program Effectiveness - II
Lecture 49 - Statistical Measures of Safety Program Effectiveness - III
Lecture 50 - Intervention Design
Lecture 51 - Risk Based Decision Making - I
Lecture 52 - Risk Based Decision Making - II
Lecture 53 - Risk Based Maintenance - I
Lecture 54 - Risk Based Maintenance - II
Lecture 55 - Introduction to Behavioral Safety
Lecture 56 - Behavioral Safety Data Collection and Preliminary Analysis
Lecture 57 - Causal Modelling - I
Lecture 58 - Causal Modelling - II: Application of Path Model
Lecture 59 - Injury Epidemiology
Lecture 60 - Occupational Safety, Health and Working Conditions Code, 2020 Analytics
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