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hazards -- A framework for gamification to encourage environmentally friendly driving habits -- Assessing the economic and environmental effects of gravel recycling during gravel road maintenance -- Revisiting agricultural technologies in the 4IR era -- Speed of Innovation Diffusion in Green Hydrogen Technologies -- Servitization & Industry 4.0 -- Overview for Leasing or Buying Decisions in IndustrialAsset Management -- Creating value and business benefits from joint offerings of asset performance management tools in the capital-intensive industries -- The Journey towards Successful Application of Maintenance 4.0 and Service Management 4.0 -- Risk, Reliability & Maintenance -- Methodology for optimizing preventive maintenance programs for equipment on an electrical distribution network -- Pragmatic performance management -- How to build an optimal long-term asset renewals and modernization plan driven by quantified cost/risk/performance value -- System for Early Detection of Insulation Failures of Electric Machinery -- Turnaround Maintenance in Process Industry: Challenges and Potential Solutions -- Modelling the effect of maintenance-induced failures from periodic testing of safety-critical equipment in the oil and gas industry -- Asset Information Systems -- Facilitating change towards predictive maintenance -- An Intangible Asset Management Proposal based on ISO 55001 and ISO30401 for Knowledge Management -- The potential for digital twin applications in railway infrastructure management -- Digital twins in asset management: potential application use cases in rail and road infrastructures -- Asset Management Decisions -- Proposition of a generic decision framework for prescriptive maintenance decision-making: An application to the automotive sector -- Asset Information Management Systems: Critical Success Factors in the Brazilian Electricity Sector -- Benchmarking Asset Information Quality of a Utility Company in Brazil -- The Value of Business Process Management to Understand Complex Asset Management Processes -- Towards evidence-based decision making in asset management -- Probabilistic technico-economic analysis of hydroelectric power unit operation and maintenance including prognostic -- Condition Monitoring & Assessment -- Condition Assessment of Engineered Assets in era of Society 5.0 -- Model proposal for failure detection and classification of internal combustion engine operating condition -- Fault diagnosis and isolation for diesel engine combustion chambers based on Autoencoder and BP neural network -- Asset Management and Energy Efficiency Improvements in a Critical Environment - The Case of a University Bioterium -- Determination of Water Content in Heavy Fuel Oil Using a Relative Permittivity Meter -- Particulate matter monitoring in Joinville, Santa Catarina, Brazil -- Failure detection and isolation by LSTM autoencoder -- Condition-Based Inspection Grouping Policy for Boiler Heat Exchanger Tubes -- Developing a lubrication oil age prediction model -- Railway track geometry degradation modelling and prediction for maintenance decision support -- Efficient Implementation of Artificial Neural Networks for Sensor Data Analysis based on a Genetic Algorithm -- Application of Frequency Division Multiplexing and Neural Networks in the Operation and Diagnosis of the Stator Current and Shaft Position Sensors used in Electric/Hybrid Vehicles -- Machine learning based prediction of fatigue events in railway rails -- Online temperature estimation of permanent magnet synchronous machines (PMSM) using non-linear autoregressive neural networks with exogenous input (NARX).

| Sommario/riassunto | This book gathers selected peer-reviewed papers from the 15th World Congress on Engineering Asset Management (WCEAM), which was hosted by The Federal University of Mato Grosso do Sul Campo Grande, |

Brazil, from 15–-18 August 2021 This book covers a wide range of topics in engineering asset management, including: strategy and standards; sustainability and resiliency; servitisation and Industry 4.0 business models; asset information systems; and asset management decision-making. The breadth and depth of these state-of-the-art, comprehensive proceedings make them an excellent resource for asset management practitioners, researchers, and academics, as well as undergraduate and postgraduate students.