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During recent years, many systems and models have been developed for inspecting, monitoring and managing the maintenance of oil/gas pipelines. However, the adoption and application of these systems by the industry have not been very effective. On the other hand, the reliability of some condition assessment systems is not very efficient because of: The subjective nature of monitoring data interpretation by experts; and the complex relationships between the many types of defects. Dawotola et al. (2013) developed an integrity maintenance optimization framework for petroleum pipelines for the determination of the probability of failures and their associated consequences. Hovhanessian et al. (2008) developed pipeline risk management system for lifetime prediction and to establish priorities for monitoring activities. Otegui (2014) investigated the conditions contributed to failures of buried pipelines. The study concluded that the most frequent threats for the integrity of onshore buried pipelines are corrosion and third party damage, as well as loss of data about material and operation, old repairs and demographic changes. Due to the constraints of time, budget and other resources such as manpower and equipment, it is not possible for oil and gas assets owner organizations to either attend to all maintenance requirement schemes within a given planning period or to perform all the planned maintenance concurrently. Accordingly, the primary objectives of this research is to investigate and rank the significant parameters governing the decision making process for priority rating of repair and maintenance activities for oil/gas pipelines and to develop an integrated pipeline maintenance management system.

Biography

Taha Elhag is an Associate Professor in Project Management at Heriot Watt University. Previously he was an Associate Professor at UCL, University of London and was an Assistant Professor at Manchester University, UK. His teaching duties comprise undergraduate and postgraduate programs; and Course Directorship. His academic experience also includes the supervision of MSc dissertations and PhD research and acting as Internal and External Examiner for different universities. He is also an expert reviewer for many international journals and EPSRC research projects. He was a Visiting Lecturer at Manchester and Reading Universities and the British University in Dubai (BUiD). He is the author of over 60 refereed papers in international journals and conferences.

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