

Abstract. Drilling process automation solutions provide positive assistance to the driller, and increase consistency in execution of drilling procedures. However, in drilling ...

Abstract. The process of oil and gas drilling is a complicated and uncertain field practice. Moreover, uncertainty and fuzziness of formation is also a threat to drilling safety. ...

Since 1962, the IADC Incident Statistics Program (ISP) has tracked safety and accident information for the drilling industry. To record data reflecting accident ...

In this work, practical machine learning, classification models were developed using real-time drilling data to automatically detect stuck pipe incidents during drilling ...

A warning system for drilling engineering has been developed to implement of real-time detection of work status and give early warnings about ...

The application of artificial intelligence (AI) has become inevitable in the petroleum industry. In drilling and completion engineering, AI is regarded as a transformative technology ...

We present an approach for interpreting a black-box alarming system for forecasting accidents and anomalies during the drilling of oil and gas wells. ...

Two of the most recent examples of commercial technologies were developed by members of SPE's Drilling Systems Automation Technical Section (DSATS). In 2014, ...

The monitoring system for failure risk of downhole drilling tools mitigates downhole accidents, collecting real-time downhole and surface information during the drilling process, ...

Request PDF | Machine Learning for Detecting Stuck Pipe Incidents: Data Analytics and Models Evaluation | The earlier a stuck pipe incident is predicted and mitigated, ...

By combining artificial intelligence (AI) and machine learning with cameras installed in hazardous areas, these systems are helping to mitigate ...

The system digitally tracks equipment and personnel movements on the rig floor in real time. The tracking enables monitoring of personnel ...

The Glomar Java Sea drillship owned by Global Marine Inc. was a state-of-the-art offshore drilling vessel



# System for drill rig incidents

designed for deep-sea oil exploration. Launched in 1975, the Glomar Java Sea was a ...

A warning system for drilling engineering has been developed to implement of real-time detection of work status and give early warnings about potential drilling accidents during ...

Evoked Technologies recently implemented a comprehensive Rig Management system that provides a single platform for reporting incidents, Investigation, ...

Overview The LOGIX &#174; autonomous drilling platform collision alert 3D service significantly impacts the drilling industry by enhancing safety, reducing costs, and minimizing collision risks. ...

This article explores the transformative potential of real-time fluid monitoring and predictive analytics in revolutionizing drilling operations by enhancing safety, reducing ...

Experimental results from on-site micro drilling data show that the system significantly enhances safety and financial benefits. For example, it accurately detected ...

Failures during the drilling and exploitation of hydrocarbons that result in catastrophic offshore oil and gas accidents are relatively rare but if ...

Stay safe on drilling rigs with NOV Inc's innovative camera system, detecting rig hands and unsafe zones in real-time to prevent accidents. Learn more about this patented ...

INCIDENT A number of serious drill rig injuries have recently occurred at underground mines resulting in fractures, amputation of fingers, severe soft tissue damage, nerve damage, crush ...

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Emergency Evacuation of Rig Floors on Land Rigs Emergency Evacuation of Rig Floors on Land Rigs When a drilling crew needs to evacuate the rig floor due to an ...

Nowadays, there are few existing solutions for the drilling accidents forecasting problem. For example, in papers [15, 33] authors developed a system that can compare the ...

Characteristics: Drilling tools can be hoist at any time and well bore can be cleaned during drilling to reduce accidents. In tripping if meets block up, you can connect the drill string quickly and ...



## System for drill rig incidents

IADC recently published the Incident Statistics Program (ISP) 2024 Annual Report, which provides a summary of occupational incidents for drilling ...

The system connects to WITSML data stores and outputs warnings with specific information regarding the identified symptom of the potential drilling incident, leaving it up to the rig crew or ...

The system here includes specialized red zone monitoring capabilities, which focus on high-risk areas within the drilling rig. AI-driven sensors and cameras ...

The proactive anticollision alert system, customizable 3D wellbore displays, and automatic notifications empower operators to identify and address potential collision risks, which can ...

When the factors that affect the operation of drilling change adversely, unsafe behavior of drilling operators can easily occur, resulting in offshore drilling accidents. As such, ...

The system automatically switches to geosteering on the well plan as soon as drilling the lateral starts, and the geologic targets can be updated, modified and transferred to ...

In its investigation of the incidents, Precision discovered that some of its operator clients had begun running inline pipe screens, which are installed in the drilling fluid piping ...

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