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(57) Abstract :

Embodiments of the present disclosure relates to a system (100) and method (300) for detecting and mitigating gas intrusion events in marine risers. In an aspect, the present disclosure discloses a system (102) for detecting and mitigating gas intrusion events in marine risers by applying sensor networks and machine learning techniques. The system (102) comprises a processor (202) coupled to a memory (204). The memory (204) stores processor-executable instructions. The processor (202) is configured to collect marine data in real-time. Further, the processor (202) is configured to extract one or more features from the marine data. Next, the processor (202) is configured to analyse the extracted one or more features. In the end, the processor (202) is configured to detect gas intrusion events based on the analysis.

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