Visual Computing Forum

Visual analysis for leakage detection in subsea acoustic monitoring.

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Abstract

In situ analysis of streamed acoustic data is crucial for sub sea environmental monitoring tasks. One of the crucial applications is represented by detection of oil and gas leakages from subsea installations. On the software level, the monitoring system is based on semi-automatic and also on fully-automatic data analysis pipeline, which incorporate challenges related to big data analysis, visualization and machine learning. In this presentation, I will aim mainly at the role of visualization and machine learning in the detection of gas plumes.