



Automated Spinal Segmentation and Remote Monitor Calibration for Surgical Assessment

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Project # 8

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Background

- **Data**
 - 1.62 million instrumented spinal fusion procedures annually [1]
 - Complication Rate 50% [2]
 - Revision Rates 36% [2]
- Expert assessments can wildly change for a given patient over the course of multiple days
- Information is only available about static positions of the patients

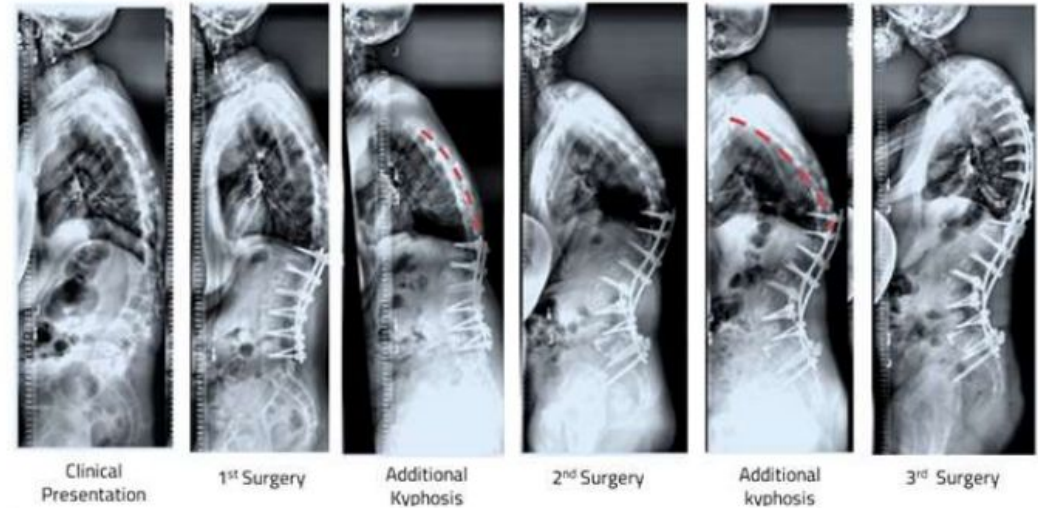


Figure 1 - Patient With multiple revisions [4]

In the example above, a patient had to undergo multiple surgeries, as the first two surgeries did not produce the desired outcome.



Approach

