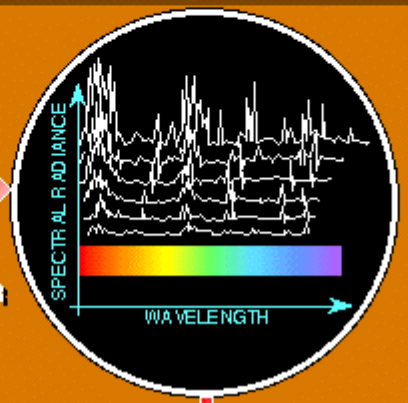
Bayesian and AI Data Analysis for SSME Plume Diagnosis

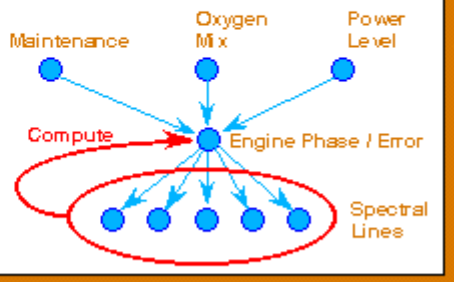
SPECTROMETER

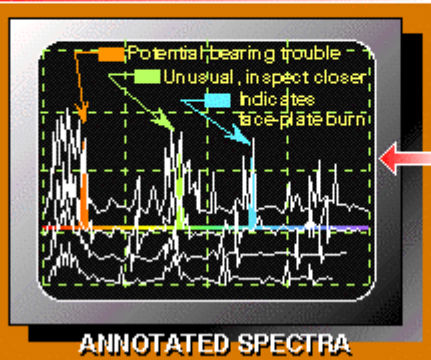


SPECTRAL TIME - SERIES

DATABASE OF PREVIOUS SPECTRA

BAYESIAN ALGORITHMS TO DETECT ANOMALIES





ANNOTATED SPECTRA

- Initial Study at MSFC
- Pilot System Being Built in '98
- System Adapts as Engines Modified and Improves Over Time

NASA
Ames Research Center