

Physiological Waveforms



PPG

EMG



PCG

PCG

Direct



Chain



Branch



Reasoning Structure

Decision

3



Guideline-Constrained Differential
Inference



Differential
Diagnosis



Mechanistic
Explanation



Counterfactual
Robustness



Uncertainty-
Aware Abstention

Interpretation

2



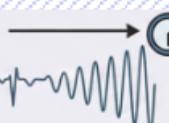
Morphology
Semantics



Rhythm and Cycle
Structure



Cross-Lead
Concordance



Temporal
Evolution



Cross-Signal
Coupling

Evidence

1



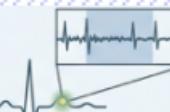
Signal Quality
Assessment



Event
Segmentation



Measurement
Extraction



Evidence
Localization