MultiModN is a multimodal, modular network that fuses latent representations in a sequence of any number, combination, or type of modality while providing granular real-time predictive feedback on any number or combination of predictive tasks.

**MultiModN**

1) matches parallel MM fusion (P-Fusion) for a range of real-world tasks
2) composable at inference
3) robust to the bias of missing not-at-random (MNAR) modalities
4) inherently interpretable
5) easily extended to any number or combination of tasks

MultiModN has the advantage of being naturally extensible to the prediction of multiple tasks without negatively impacting the performance of individual tasks.

**Interpretable-by-design**

MultiModN has inherent modality-specific global (IMC) and local (CP) model explainability.

**Robust to Missingness**

MultiModN is robust to bias from missing input modalities (catastrophic MNAR failure).