

Foundations & Trends in Multimodal Machine Learning: Principles, Challenges, and Open Questions

representation

- fusuion
 - abstarct
 - raw
- Coordination
 - strong
 - partial
- fission
 - modality-level
 - fine-grained

alignment

- discrete
 - local
 - global
- continuous
 - continuous warping
 - segmentation
- Contextualized Representations
 - joint undirected
 - cross-modal directed
 - graphical

REASONING

- structure modeling
- intermediate concept
- inference paradigm ?
- external knowledge — large database

TRANSFERENCE