# Cognitive processes in multimodal object recognition

## University of Birmingham - Multimodal neuromarkers in schizophrenia via cognition



Description: -

-Cognitive processes in multimodal object recognition
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### [PDF] Auditory

Another interesting finding was that the identified multimodal networks are most significantly correlated with three cognitive domains: attention, working memory, and verbal learning, which belong to key higher cognitive functions and are often severely impaired in SZ ,,. Several other hypotheses attempt to explain the role of the parietal lobe in recognition memory.

**A multimodal study to measure the cognitive demands of hazard recognition in construction workplaces**

Specifically, our results revealed one pattern of overlapped GM reduction in SAN extending across four domains composite cognition, working memory, attention and learning and in two cohorts.

### [PDF] Auditory

Accordingly, recognition is possible from any viewpoint as individual parts of an object can be rotated to fit any particular view. This is one of the simplest forms of testing for recognition, and is done so by giving a participant an item and having them indicate 'yes' if it is old or 'no' if it is a new item. Mapping cognitive capability onto brain imaging has the potential to provide clues by exploiting links among enriched types of imaging and behavioral information for individuals ,.

### GitHub

Additional top-down processing may also occur when environmental cues such as context are used to identify particularly difficult instances of objects e. The gray regions in b indicate a 95% confidence interval Cross-cohort replication Due to the interferential effects of varying demographic distributions and measurement conditions, few neurocognitive studies have been strictly replicated for independent cohorts.

### GitHub

A supervised learning strategy is used to guide three-way multimodal magnetic resonance imaging MRI fusion in two independent cohorts including both healthy individuals and individuals with schizophrenia using multiple cognitive domain scores. Category-specificity in visual object recognition. Recognition memory, a subcategory of , is the ability to recognize previously encountered events, objects, or people.

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