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Sparse shared structure based multi-task learning for MRI based
Cognitive Performance prediction of Alzheimer's disease

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Highlights

- A mixed sparse shared structure based multi-task learning is proposed
- The formulation can be applied on regression, classification or clustering
- An efficient optimization algorithm is derived to solve the nonsmooth formulation
- Experimental results demonstrate significant performance improvements over the existing methods
- Our method is able to discover the biomarkers relevant to cognitive performance and fuse the multi-modality data.

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