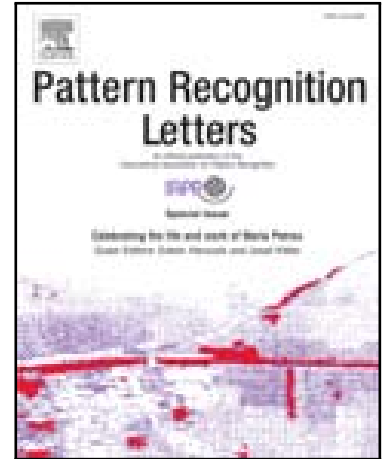


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Geodesic registration for interactive atlas-based segmentation using learned multi-scale anatomical manifolds

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Highlights

- A geodesic registration method utilizing empirical anatomical manifolds is proposed.
- The manifolds are defined on a hierarchy of different scales and regions.
- A combination of labeled and un-labeled data was used to build the manifolds.
- Competing complementary manifolds significantly increase segmentation performance.
- Evaluation on abdominal MRI volumes shows improved liver segmentation performance.

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