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A topo-graph model for indistinct target boundary definition from anatomical images

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Highlights

- A novel topographic representation to extract multiple-level regional relations for adjacent tissues with similar intensity distributions
- A new graph with nesting branches for separation and geodesic edges for boundary identification
- Validations on NSCLC CT, liver CT, breast and abdominal ultrasound images
- Improved accuracy over graphs with pixel and/or regional, neighbouring/radial connections

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