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Liver vessel segmentation and identification based on oriented flux symmetry and graph cuts

Ye-zhan Zeng , Yu-qian Zhao , Ping Tang , Miao Liao , Yi-xiong Liang , Sheng-hui Liao , Bei-ji Zou

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Highlights

- The combination of optimal oriented flux and oriented flux antisymmetry measures is used to yield slenderized vessels
- A thin-vessel centerline extraction method is proposed based on height ridge traversal and leaf node line-growing
- Our method can effectively extract thin vessels
- Our method can identify hepatic vein and portal vein

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