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Automatic segmentation of the lumen region in intravascular images of the coronary artery

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**Highlights**

- A fully automatic method to segment the lumen in IVUS images of the coronary artery is presented;
- The Gaussian pyramid reduces the execution time of the clustering algorithm;
- Circularity and centre indexes are used to find the correct location of the lumen;
- The computer results and corresponding manual delineations are compared;
- The proposed method is shown to be effective.

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