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Convexity dependent anisotropic diffusion for mode detection in cluster analysis

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Highlights

- The anisotropic diffusion concept is extended for mode detection in cluster analysis
- A Forward-backward diffusion is applied on the probability density function (pdf)
- This adaptive filtering technique is guided by the local convexity of the pdf
- It enhances the modes and deepens the valleys of the pdf
- It can find overlapping and non linearly separable clusters with various densities

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