Reviewer Comments

Reviewer 1:

Author Comments: This paper presents an application of an Artificial Neural Network for the computation of the midcurve of a polygon. The paper provides some data of preliminary experiments using simple polygons which have been previously used, in various/different orientations, for training. The paper contribution is rather limited since, although the current approach is interesting, the research is at a very preliminary stage. In addition, the use of English language is not adequate for a journal paper since there are many syntax and spelling errors throughout the manuscript.

Reviewer 2:

Author Comments: The paper proposes a mid curve prediction method using DL. Can some performance metrics like training accuracy, testing accuracy be provided.

Reviewer 3:

Author Comments: This paper proposes a method that uses a single layer encoder and decoder network for the dimension reduction to search Midcurve of a 2D thin polygonal shape. Following suggestions are for the author to improve the paper.
1. The proposed method in Section 3 should be detailed. For example, what are application shapes that trained system can work if only shapes in Figure 8 are considered ? What are the training time and accuracy of the system? What are causes of wrongly classified output Midcurve ?
2. The proposed method should be compared with other existing methods for the efficiency and accuracy.
3. Details of references 9, 10 and 11 should be added. More related work review is expected.

Author Rebuttal:

Neural Network implementation has been mentioned at "MidcurveNN encoder-decoder ... compute the losses."

Justification of need of the proposed method: "Paper [2]
... developing such generic models."

Various shapes in data are shown in Figure 4.

References are currently in citation order but can be changed to alphabetical.

"Figure [?]" will be corrected to 'Figure [3]"