WE CLAIM:

1. A method for inspecting an object, the method comprising:

receiving or determining inspection image data from an inspection image, the inspection image data including an inspection image pixel array;

determining an orientation of the object in the inspection image via a pose recovery regression;

determining guide image data for the object in the determined orientation based on the orientation determined from the inspection image;

associating the inspection image data with the guide image data, the guide image data comprising a guide image pixel array, at least one guide image pixel in the guide image pixel array having a pixel property,

wherein inspection image pixels in the inspection image array are associated with pixel properties of corresponding associated guide image pixels in the guide image pixel array;

receiving via a processor a user input designating a continuous segment of inspection image pixels in the inspection image pixel array; and

determining a property of the object relating to continuous segment of inspection image pixels based on the pixel properties associated with the inspection image pixels in the in the inspection image pixel array that are designated as the continuous segment.

2. The method of claim 1, wherein receiving the user input comprises receiving the user input through a peripheral device that is operably coupled to the processor.

3. The method of claim 1, wherein the continuous segment of inspection image pixels is a linear segment of inspection image pixels, and wherein determining the property of the object comprises determining a length.

4. The method of claim 3, wherein the pixel property comprises a distance.

5. The method of claim 1, wherein the continuous segment of inspection image pixels is a closed segment of inspection image pixels, and wherein determining the property of the object comprises determining an area of the closed segment.

6. The method of claim 1, wherein the continuous segment of inspection image pixels is a closed segment of inspection image pixels, and wherein determining the property of the object comprises determining the property of the object based on the pixel properties associated with the closed segment of inspection image pixels in the inspection image pixel array and further based on a pixel property associated with an inspection image pixel that is encompassed by the closed segment of inspection image pixels in the inspection image pixel array.

7. The method of claim 6, wherein the pixel property comprises an area.

8. The method of claim 1, comprising displaying an inspection image and the inspection image pixel array to a user.

9. The method of claim 1, wherein determining the property of the object based on the pixel properties associated with the continuous segment of inspection image pixels in the inspection image pixel array comprises determining a plurality of properties of the object based on the pixel properties associated with the continuous segment of inspection image pixels in the inspection image pixel array.

10. The method of claim 1, wherein receiving the user input further comprises receiving a line drawn by a user and associating the line with the continuous segment of inspection image pixels in the inspection image pixel array.

11. An inspection system, comprising:

a visual image recording device configured to generate an inspection image of an object; and

a computing system comprising a processor, the computing system configured to:

receive or determine inspection image data from the inspection image, the inspection image data including an inspection image pixel array;

determine an orientation of the object in the inspection image via a pose recovery regression;

determine guide image data for the object in the determined orientation based on the orientation determined from the inspection image;

associate the inspection image data with the guide image data for the object, the guide image data comprising a guide image pixel array, at least one guide image pixel in the guide image pixel array having a pixel property,

wherein inspection image pixels in the inspection image pixel array are associated with pixel properties of corresponding associated guide image pixels in the guide image pixel array;

designate a continuous segment of inspection image pixels in the inspection image pixel array; and

determine a property of the object relating to the continuous segment of inspection image pixels based on the pixel properties associated with the inspection image pixels in the inspection image pixel array that are designated as the continuous segment.

12. The inspection system of claim 11, wherein the continuous segment of inspection image pixels is a linear segment of inspection image pixels, and wherein the property of the object is a length.

13. The inspection system of claim 12, wherein the pixel property comprises a distance.

14. The inspection system of claim 11, wherein the continuous segment of inspection image pixels is a closed segment of inspection image pixels, and wherein the property of the object is an area.

15. The inspection system of claim 11, wherein the continuous segment of inspection image pixels is a closed segment of inspection image pixels, and wherein the property of the object is determined based on the pixel properties associated with the closed segment of inspection image pixels in the inspection image pixel array and a pixel property associated with a pixel that is encompassed by the closed segment of inspection image pixels in the inspection image pixel array.

16. The inspection system of claim 15, wherein the pixel property comprises an area.

17. The inspection system of claim 11, wherein the inspection system comprises a peripheral device configured to display the inspection image and the inspection image pixel array to a user.

18. The inspection system of claim 11, wherein each inspection image pixel is a subdivision of an inspection image.

19. The inspection system of claim 11, wherein the inspection image data comprises a simplified image of a 3D model of the object.

20. The method of claim 1, wherein determining the orientation of the object further comprising estimating the orientation of the object by creating a simplified image of the inspection image.