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Image inpainting is the problem of filling in the missing portion of an image. Numerous exemplar-based methods are proposed for inpainting images. However, inpainting of texture images is an especially tricky problem. Some methods propose separating an image into an oscillating part and structure part. We propose an exemplar-based method that is suitable for texture inpainting without separating the image into two parts. We achieve this by identifying the segment that the missing part belongs to. Then we use an entropy-based dissimilarity parameter for filling in the missing region pixel-by-pixel. (Received September 24, 2018)