```
import cv2
import numpy as np
def skeletonize(image path):
  # Load the image in grayscale
  image = cv2.imread(image_path, 0)
  # Apply a binary threshold to obtain a binary image
  _, binary_image = cv2.threshold(image, 127, 255, cv2.THRESH_BINARY)
  # Invert the binary image
  inverted_image = cv2.bitwise_not(binary_image)
  # Initialize the skeleton image
  skeleton = np.zeros like(inverted image)
  # Apply morphological operations until the image is completely skeletonized
  while cv2.countNonZero(inverted image) > 0:
    # Erode the inverted image
    eroded = cv2.erode(inverted image, None)
    # Open the eroded image
    opened = cv2.morphologyEx(eroded, cv2.MORPH OPEN, None)
    # Subtract the opened image from the eroded image
    subtracted = cv2.subtract(eroded, opened)
    # Bitwise OR the subtracted image with the skeleton image
    skeleton = cv2.bitwise_or(skeleton, subtracted)
    # Set the inverted image to the eroded image for the next iteration
    inverted image = eroded.copy()
  # Show the skeleton image
  cv2.imshow("Skeleton", skeleton)
  cv2.waitKey(0)
  cv2.destroyAllWindows()
# Example usage
image path = "path/to/your/image.jpg"
skeletonize(image path)
```