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Abstract
Acute appendicitis is the most common disease, which needs surgical intervention, in the world. Although the treatment of acute appendicitis is simple and straightforward, its diagnosis is still difficult. No single laboratory or image examination can make the diagnosis of acute appendicitis more accurate. Therefore, it is still a challenge to physicians to reduce appendiceal perforation and negative appendectomy rates.
Traditionally, history taking and physical examination are still very important in appendicitis diagnosis. Due to the raise of human resource cost, unavailability of experienced physicians and requirement of medical quality, the accuracy of appendicitis diagnosis should be improved with new low-cost methods. For this reason, many methods, including new high resolution image tools and laboratory examination, have been used to raise the diagnostic accuracy of acute appendicitis. However, the results are not satisfied.
The information technology may provide alternative approaches to acute appendicitis diagnosis. In this study, the classification approach and committee machine are applied to build a prognostic model to provide a economical diagnostic assistance for acute appendicitis. The results of this study should be helpful to the development of the computer-aided system in the other medical field.
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