

Development of breast cancer diagnosis system by using case-based reasoning approach

Min Min Ei, Tin Myat Htwe

University of Computer Studies, Yangon

minminei85@gmail.com, tinmyathtwe@gmail.com

Abstract

In medical field, it is very difficult to get correct Diagnosis because there are many possible diseases in each case. And it is also important to get correct diagnosis as soon as possible to save lives of people. It is impossible for a person to consult a medical specialist whenever he/she feels a symptom of a disease. In this situation, computer program giving health information may help his/her decision whether the symptom is serious or not. Computer-based methods are increasingly used to improve the quality of the medical services. Thus, computer-based medical diagnosis systems are playing an increasingly important role in assisting both diagnosis and treatments. This paper intends to design and implement a diagnosis system for breast cancer using case-based reasoning approach, based on the symptoms of the patients. Case-based reasoning is the process of the solving new problems based on the solutions of similar past problems. The system store the knowledge of the medical experts and the medical records of the previous cases. Based on the knowledge stored, this system studies the breast

cancer and develops a diagnosis system that decides the patient's cancer stages and suggests treatments.