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Authors:

Ronak Sumbaly

N. Vishnusri

S. Jeyalatha

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Abstract

Cancer is a big issue all around the world. It is a disease, which is fatal in many cases and has affected the lives of many and will continue to affect the lives of many more. Breast cancer represents the second primary cause of cancer deaths in women today and has become the most common cancer among women both in the developed and the developing world in the last years. 40,000 women die in a year from this disease, which is one woman every 13 minute dying from this disease everyday. Early detection of breast cancer is far easier to cure. This paper presents a decision tree based data mining technique for early detection of breast cancer. Breast cancer diagnosis differentiates benign (lacks ability to invade neighboring tissue) from malignant (ability to invade neighboring tissue) breast tumors. This paper also discusses various data mining approaches that have been utilized for breast cancer diagnosis, and also summarizes breast cancer in general (types, risk factors, symptoms and treatment).

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Index Terms

Computer Science

Data Mining

Keywords

Benign BRCA Breast Cancer Carcinoma Data Mining Decision Tree J48
Malignant

Survivability Rate

Tumor.