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Knowledge-based coalition planning and operations for Medical Applications

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This paper will investigate the characteristics of women who are diagnosed with cervical cancer, features of cancer tissue on X-ray/MRI/PET images and correlation of the research findings with oncologist data. There is a need to design of image processing techniques for the diagnosis and monitoring of cervical cancer at Peter MacCallum Cancer Institute (Melbourne). These techniques will require an advanced software platform to store and retrieve cancer patient images in database. Advanced algorithms for analysing stored images are required to help the detection of the degree of the spread of cancer with patients. This project aims at designing and testing such techniques. The outcomes of this project will be a software and display of graphical view on computer screen which will be used doctors of Peter MacCallum Cancer Institute to improve the current detection cancer detection techniques.

This work will be carried out among expertise of database management, neural network and medical image datas. All authors will be from these expertise and will work on planning to build suitable patients database.