

## (6) أهداف البحث

### Research Objectives

تذكر أهداف البحث بوضوح ودقة، وعلى هيئة نقاط محددة، مع ربط الأهداف بالمشكلة المذكورة في ملخص البحث.

---

The main objective of this research is to use the most up to date technology for medical image processing of patients at a hospital in order to enhance the medical image and detect the most important structures that are able to classify the diseases structure. Also, a new technique for learning the Cellular Neural Network template based on reinforcement optimization, represented by Parallel Genetic Programming, is appeared.

In more details, the research aims to:

1. Building a large medical image database that represent the system core database.
2. Enhancing the medical image based on the parallel processing techniques, CNN.
3. Discovering new supervised learning rules for Cellular Neural Networks based on reinforcement optimization, such as parallel genetic programming.
4. Extracting the most important medical image structures, that help doctors in patient's diagnosis.
5. Performance analysis of the system using the relevant criteria.
6. Comparative analysis of the proposed technique with the other techniques.