Highlights

The main contributions of this dissertation are listed as follows:

1. We propose an deploy algorithm by taking both the number of charging station and the distance between the charging station and the sensor node in a WRSN into account simultaneously.
2. We formulate the proposed strategy into a multi-objective problem.
3. A modified NSGA-II algorithm is proposed to solve a charging station deployment problem.
4. A new NSGA-II chromosome coding is provided for problem formulation.