

Victoria

University of Ballarat

DP0771709 Dr Z Wu

Approved Project Title **Filled function methods for global optimization and their applications**

2007 : \$77,030

2008 : \$77,030

2009 : \$77,030

Primary RFCD 2301 MATHEMATICS

APD Dr Z Wu

Administering Organisation University of Ballarat

Project Summary

Many real problems in science, commerce and industry are restricted in the way that they are modelled and solved by the known inability to deal with global optimization problems. The development of computational efficient global optimization methods in this project will allow new more complete approaches to these problems, especially in new areas of bio-informatics, data mining, economic modelling, supply chain management, air traffic management, biochemical engineering and automotive industry, consequently helping Australia advance in these various areas. It will also enhance the understanding of global optimization from both theoretical and numerical viewpoints, particularly boosting optimization research in Australia.