1 Introduction

Multidisciplinary Design Optimization (MDO) is getting more and more import, especially in the aerospace community. The AIAA Association (American Institute of Aeronautics and Astronautics) has organized several sessions dedicated to the MDO (last session [1]) and recently the First Session of MDO for specialist [2]. Consequently the development of numerical methodologies, to solve these problems, is increasing in importance, to help the industry during the phases of a complex design. It seems useful to remark that the designs, in particular in the aeronautics field, are extremely complex, because of the physical model and for huge number of input and output parameters.