Title: The MFS for inverse problems

Abstract: The method of fundamental solutions (MFS) is a relatively new technique which can be used for the numerical solution of certain boundary value problems and initial/boundary value problems. The ease with which it can be implemented and its effectiveness have made it very popular for the solution of a large variety of problems arising in science and engineering. Recently, it has been used extensively for a particular class of such problems, namely inverse problems. We attempt to review the applications of the MFS to the various classes of inverse and related problems, over the last few years. Some of the several issues related to the implementation of the MFS to such problems are discussed and some representative numerical results are presented.