

This thesis is describing, comparing and implementing enclosure methods for solving overdetermined system of interval linear equations by the least squares method. Input data of the methods are within given intervals. We describe the structure of the solution set, which is the basis of algorithms for computing interval hull of the solution set. Although computation of the interval hull is NP-hard problem, there exist algorithms which encloses the solution set with less than exponential steps. We are heavily focusing on these algorithms. The solution set can be alternatively characterized as a solution to the symmetric interval system. Therefore the work includes solvers of the symmetric interval system. This thesis contains numerical experiments for comparing the methods. All methods are implemented in Matlab with utilisation of the interval toolbox Intlab.