

REMARKS ON CONSTRAINED OPTIMIZATION

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Optimization is the art of finding the lowest possible value of a given function on some domain. Its importance comes from the great variety of direct applications. Solving optimization problems requires efficient and robust software. Global optimization is very hard, however, modern efficient software should incorporate global optimization tools. Software performance depends on stopping criteria. Good theory is necessary to understand the behavior of algorithms when they do not converge to a solution. According to it we decide the application of global optimization tools. KKT-optimizers should be integrated to Global-optimizers and to engineers. Modeling is a part of the optimization task.