

ON INTERPLAY BETWEEN GLOBAL OPTIMIZATION AND VIZUALIZATION

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Objective functions in practical applications frequently do not possess theoretical properties guaranteeing availability of an efficient optimization method. In black box optimization case it is difficult also to extract features of objective functions justifying selection of a relevant optimization method. To facilitate such a selection the visualization of information collected during the search can be helpful. On the other hand implementation of visualization methods involves solution of global optimization problems. In the present paper the interrelation between global optimization and visualization of multidimensional data is considered.