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of the analysis in the given space. The analysis in the image space is strongly based on separation theorems and on theorems of the alternative. These mathematical tools have been used, in the field of constrained extremum problems, for a long time in the given space mainly as a step of a proof. Here it is shown that their use in the image space leads to an acknowledgement

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Constrained Optimization and Image Space Analysis Volume 1: Separation of Sets and Optimality Conditions. Series: Mathematical Concepts and Methods in Science and Engineering, Vol. 49. Giannessi, Franco 2005

### **Constrained Optimization and Image Space Analysis**

The Image Space Analysis (for short, ISA) plays a significant role in studying several mathematical problems, namely constrained extremum problems, variational inequalities, equilibrium problems,...

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Firstly, we use the improvement set to introduce a new class of generalized convex set-valued maps. Secondly, under suitable assumptions, some scalarization results of the constrained set-valued optimization problem are obtained in the sense of (weak) optimal solution characterized by the improvement set. Finally, by considering two classes of nonlinear separation functions, we present the separation between two suitable sets in image space and derive some optimality conditions for the ...

## **Scalarizations and Optimality of Constrained Set-Valued**

...

feasible space comprises two disconnected regions. In addition, although all the functions involved are smooth, the boundaries of the feasible regions are nonsmooth. These characteristics complicate the numerical solution of constrained optimization problems. 5.1 Optimality Conditions for Constrained Problems

## **Constrained Optimization - Stanford University**

Abstract In this article, by introducing a class of nonlinear separation functions, the image space analysis is employed to investigate a class of constrained optimization problems.

## **(PDF) A new approach to constrained optimization via image ...**

Firstly, using Gaussian down-sampling with a classical line

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segment detection method, a multi-scale image space is constructed to extract line segments in each image scale and all line segments are projected onto the original image. Then, a new line segment optimization and purification strategy is proposed with the horizontal and vertical distances and angle geometric constraint relationships between line segments to merge fracture line segments and delete redundant line segments.

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We then solve a constrained optimization problem to find translucent, spatially coherent opacity for each layer, such that the composition of the layers reproduces the original image. We demonstrate the utility of the resulting decompositions for recoloring and object insertion.

## **Decomposing Images into Layers via RGB-space Geometry**

Linearly Constrained Non-Lipschitz Optimization for Image Restoration. Nonsmooth nonconvex optimization models have been widely used in the restoration and reconstruction of real images.

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