

國立中山大學應用數學系

學術演講

講者：Professor Radu Ioan Bot
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講題：On primal-dual splitting algorithms for
monotone

時間：2014/07/09（星期三）11：10～12：00

地點：理學院四樓理 SC 4009-1 室

摘要

We consider the primal problem of finding the zeros of sums of linear compositions of maximally monotone operators in real Hilbert spaces. By formulating its Attouch-Théra-type dual inclusion problem, a class of primal-dual splitting algorithms which simultaneously solve the two problems is presented. The proposed schemes process at each iteration the resolvents of the maximally monotone operators involved individually and aim to overcome the shortcoming of classical splitting algorithms when dealing with linear compositions of maximally monotone operators. The iterative algorithms are used for solving nondifferentiable convex optimization problems arising in location theory, image and video processing.

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