

# 國立中山大學應用數學系

## 學術演講

- 講者：Professor Nguyen Dong Yen  
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Science and Technology, Vietnam
- 講題：On Some Generalized Polyhedral Convex  
Constructions
- 時間：2017/9/21（星期四）14:10 ~ 15:00
- 地點：理學院四樓理 SC 4009-1 室
- 茶會：15:00 於理 SC 4010 室（系辦公室）

### 摘要

Generalized polyhedral convex sets, generalized polyhedral convex functions on Hausdorff locally convex topological vector spaces, and the related constructions such as normal cone, sum of sets, sum of functions, directional derivative, infimal convolution, conjugate function, subdifferential, are studied thoroughly in this paper. Among other things, we show how a generalized polyhedral convex set can be characterized via the finiteness of the number of its faces. In addition, it is proved that the infimal convolution of a generalized polyhedral convex function and a polyhedral convex function is a polyhedral convex function. The obtained results can be applied to scalar optimization problems described by generalized polyhedral convex sets and generalized polyhedral convex functions.

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