

# 超立方體雙扇型相鄰點容錯性質之研究

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## 摘要

令  $Q_n = (V_b \cup V_w, E)$  是  $n$  維的超立方體,  $F_a$  為  $f_a$  對相鄰壞點的集合,  $s_1, t^2_1, \dots, t^{k_1}_1$  為  $Q_n$  上任意好的黑點, 而  $t^1_1$  為  $Q_n$  上任意好的白點, 在這篇論文中, 我們在圖  $Q_n \setminus F_a$  中建構出  $k$  條生成互斥路徑  $P(s_1, t^i_1)$ , 其中  $f_a + k \leq n$  且  $1 \leq i \leq k$ . 令  $s_2, t^1_2, t^2_2, \dots, t^{k_2}_2$  為  $Q_n$  上任意好的黑點, 而  $s_2, t^1_2, t^2_2, \dots, t^{k_2}_2$  為  $Q_n$  上任意好的白點. 在這篇論文中, 我們在圖  $Q_n \setminus F_a$  中建構出  $k_1 + k_2$  條生成互斥路徑  $P(s_1, t^i_1)$  與  $P(s_2, t^j_2)$ , 其中  $f_a + k_1 + k_2 \leq n - 1$  且  $1 \leq i \leq k_1, 1 \leq j \leq k_2$ .

關鍵詞: 超立方體、相鄰點容錯、扇形、雙扇形、漢米爾頓蕾絲邊

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