一般化煎餅網路之環狀容錯研究

賴盈志、洪春男

E-mail: 9314764@mail.dyu.edu.tw

摘 要

在本篇論文中, 我們研究n-dimensional 2-sided pancake graphs (2Pn)的容錯性質。其中當n≡3,F?(V(2Pn)∪E(2Pn)), |F| (n- 2)時, 2Pn-F為漢米爾頓圖形(Hamiltonian graphs)，而當|F| (n -3)時, 2Pn-F為為漢米爾頓連通圖 (Hamiltonian connected graphs)。 此外, 我們並更近一步研究n-dimensional m-sided pancake graphs (mPn) 的容錯性質。我們推論假如 mP2 是 2-漢米爾頓圖形 與 1-漢米爾頓連通圖，在此前提下則可驗證在n≡ 3, m≡3, F? (V(mPn)∪E(mPn)), 當|F| (2n-2)時, mPn-F為漢米爾頓圖形， 而當|F| (2n - 3)時, mPn - F 為漢米爾頓連通圖。

關鍵詞 : 煎餅網路 ; 容錯 ; 漢米爾頓路徑 ; 漢米爾頓迴路 ; 漢米爾頓連通圖

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