

System Research in Computer-Aided Parametric Design

林炳煌、劉大銘

E-mail: 8402623@mail.dyu.edu.tw

ABSTRACT

AutoCAD 的參數程式是以AutoLISP為基本架構的程式，其可以從使用者或外部檔案取得參數資料，在本文中所使用的外部軟體是dBASE，再由 dBASE 取得參數的資料並且依照這些資料在AutoCAD 圖面之中產生一個圖像，而為了使用者操作方便性、簡易性，在本文中也設計了一套螢幕功能表，在最後又為材料加註，即定義屬性(ATTRIBUTE)以便將屬性輸出到 LOTUS 123，在本系統中包括了下列各部份:製作資料檔的外來軟體(dBASE)包括組件資料的外部檔案 一個讀取外部檔案的AutoLISP函數 計算與繪製一個圖像的函數 一套帶有完整的螢幕功能表 元件列式的解說螢幕 材料加註即定義屬性 最後本系統將可使 dBASE AutoCAD 整合起來。 The parameter program of AutoCAD is based on AutoLISP. This program can obtain the necessary input data from the user or some external file. This research user dBASE as the foreign application program. The can maintain the parameter data under dBASE, then transfer the data into AutoCAD to generate the desired drawings. The designed a set of screen function menu which makes the environment more simple and easy to use. The also design a method which allows the user to add attributes to the material and output the attributes to LOTUS 123. This system includes the following: The foreign program which maintains the data (dBASE). The external files which contain information of parts. An AutoLISP function which can read external data. Function which compute and draw pictures. A screen menu which facilitates a complete set of functions. Help file Material attribute handling. This is an integrated system which allows the easy use of dBASE, AutoCAD and in an integrated fashion.

Keywords : Attribute ; Parametric ; Desired drawings ; Screen function Menu

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