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COMPUTER SCIENCE

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SOMSAK JUNGSAKASOM : A BUILDING STRUCTURE DRAFTING MODULE FOR THE AUTOCAD. THESIS ADVISOR : ASSIST. PROF. SOMCHAI PRASITJUTRAKUL, Ph.D. THESIS COADVISOR : ASSIST. PROF. THITIPAT PRATHANSUB, 142 pp. ISBN 974-635-620-8

The objective of this research is to develop a module for the AutoCAD which helps in drafting the detail of a building structure. The module will enhance the capability of AutoCAD program and make the drafting task to be more simplified, convenient, timely, and most of all user friendly. Furthermore the module also create a high level of precision and perfection for drafting standard. AutoCAD user only needs to choose his specific task from pre-program menu which provides options on various parts of building structure. Through dialog box, user can communicate with the program and provide all necessary information and data for drafting. Based on information and data given by the user, the program will automatically drafts the required building structure and at the same time provides information about dimension and detail of steel reinforcement requirement.


In the development of this module, new features and options have been added to the AutoCAD program by creating icon menu to enable the user to choose his desired tasks more conveniently. In creating dialog box, we adopted DCL (Dialog Control Language) and using AutoLISP for the development of dialog box driver. We also use AutoLISP programming language for building structure drawing. This module is developed to be used with AutoCAD program release 12 on operating system MS DOS version 6.2.

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