

## A PC SOFTWARE SYSTEM OF LAB AUTOMATION FOR CHINESE PSYCHOLOGICAL EXPERIMENTS

JEI-TUN WU

*National Taiwan University  
Department of Psychology*

This paper introduces a multi-purpose software system for executing cognitive psychological experiments and subsequent data handling procedures automatically. By designing a batch file to integrate many proposed or user defined module programs and providing a script text file describing events sequence of each trial, a researcher could easily conduct many or almost all experiments according to his/her idea. The system includes many proposed module programs listed below

SHUFFLE: a general purpose randomization routine,  
EVENT: a general purpose experiment handling routine,  
DATAFIT: a interface connecting raw data and statistical program,  
DATATRNS: to tranpose a large scale data matrix for by-item analysis,  
ANOVA: a general purpose analysis of variance program,  
SIGNFIX: a data reformatting program,  
PICKUP: a general purpose stimulus or text selection program.

Each program will be described in detail. The author reserves the right of originality about program framework design. However, any type of research cooperation with the author will be welcome.

Keywords: Cognitive experiment, procedure computerization, software.