55910123: MAJOR: INFORMATION TECHNOLOGY;
M.Sc. (Information Technology)
KEYWORDS: INTERACTIVE GENETIC ALGORITHM/ WEBSITE DESIGN/
WEBPAGE DESIGN/ A GUIDELINE SYSTEM

DAVY SORN: A GUIDELINE SYSTEM FOR WEBPAGE DESIGN USING INTERACTIVE GENETIC ALGORITHM. ADVISORY COMMITTEE: SUNISA RIMCHAROEN, Ph.D. 66 P. 2014.

Websites are very popular at present and many new websites occur daily on the Internet; thus, requirements of creating and designing webpages have increased. Web designers have to design webpages by hand and it is time consuming. Therefore, this thesis proposes a system which automatically generates and suggests webpage prototypes based on user preferences. It employs interactive genetic algorithms to optimize solutions to webpage prototypes interactively by a user.

This study also surveyed 30 subjects that are working related to web design and development. As the results, the system can generate and suggest webpage prototypes based on users' preferences from 61 to 80% as their needs. Moreover, the respondents have a good satisfaction with the system to be a guideline system. This study will be expected to be a preliminary model of guideline systems for web design and development that would be useful for further research and development.