

THESIS TITLE

A THESIS

Submitted by

Scholar Name

Registration Number: xxxxxxxxxxx

In partial fulfillment for the Award of the Degree of

DOCTOR OF PHILOSOPHY

Under the Supervision of

Supervisor Name



DEPARTMENT OF XXXXXXXXXXXXXXXXXXXXXXX

NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Deemed-to-be-University Under Section 3 of the U.G.C. Act 1956)

Accredited by NAAC (Second Cycle)

KUMARACOIL, KANYAKUMARIDISTRICT,

TAMILNADU, INDIA - 629 180

MONTH & YEAR

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DECLARATION

I hereby declare that the work reported in the Ph.D. thesis entitled "**THESIS TITLE**" submitted by me to Noorul Islam Centre for Higher Education, Kumaracoil is a bonafide record of original research work carried out by me under the supervision of **Supervisor Name**. I, further, declare that the work reported in this thesis has not been submitted, and will not be submitted, either in part or in full, for the award of any other Degree of this University or of any other Institute or University.

Signature of the Research Scholar

Scholar Name

Registration Number: **xxxxxxxxxx**



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TAMILNADU, INDIA - 629 180

BONAFIDE CERTIFICATE

Certified that this thesis entitled, "**THESIS TITLE**", submitted for the award of the Degree of Doctor of Philosophy in Department of **XXXXXXXXXXXX** of the Noorul Islam Centre for Higher Education, Kumaracoil is a bonafide Research work done by **Scholar Name**, Registration Number: **XXXXXXXXXX** under my Supervision. Further certified that to the best of my knowledge, this work has not been part of any other thesis or dissertation for which any Degree has been conferred by any University or Institution.

Signature of the Supervisor

Supervisor Name

Designation,

Department of **XXXXXXXXXX**,

Noorul Islam Centre for Higher Education,

Kumaracoil, Kanyakumari District,

TamilNadu, India-629 180.

ACKNOWLEDGEMENT

First and foremost, I express my heartfelt thanks to the ALMIGHTY GOD for all His blessings, kindness, and guidance at all stages of execution of this work.

I am thankful to honorable Chancellor of Noorul Islam Centre for Higher Education (NICHE) Janab Dr. A.P. Majeed Khan, for giving me the opportunity to pursue the doctoral program in this prestigious Institution. I extend my gratitude to Dr. M.S. Faisal Khan, Pro Chancellor, NICHE for providing the state of art facility at the University for doing the research. I would like to extend my sincere thanks to Dr. R. Perumalsamy, Pro-Chancellor (Academics), NICHE and I am thankful to Dr. Tessy Thomas, Vice-Chancellor, NICHE for providing the excellent research facility. I wish to thank Dr. P Thirumalvalavan, Registrar NICHE for the research facilities.

Scholar Name

ABSTRACT

This manual explains the format and arrangement requirements for the thesis or dissertation as established by the BRDC. The Doctoral Thesis, or Dissertation, is an extended written treatise that represents original results and interpretations of a unique investigation by the research scholar.

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ABBREVIATIONS

AE	Autoencoder
ALO	Ant Lion Optimization
ANFIS	Adaptive Neuro-Fuzzy Inference System
ANN	Artificial Neural Network
ANN-ALO	Artificial Neural Network with Ant Lion Optimization
BA-SVR	Support Vector Regression with A Bat Algorithm
BiCuDNNLSTM	Bidirectional Cuda Deep Neural Network Long Short-Term Memory
BLSTM-GRU	Bidirectional Long Short-Term Memory-based Gated Recurrent Unit
BOA	Bayesian Optimization Algorithm
BPNN	Back Propagation Neural Network
BWO	Black Widow Optimization
CCE	City Councils Evolution
CCEO	City Council Evolution Optimization
CGAN	Conditional Generative Adversarial Network
CM	Climate Model
CMF	Concurrent Model Framework

NOTATION, SYMBOLS, NOMENCLATURE

r	Radius, m
α	Angle of thesis in degrees
β	Flight path in degrees

GUIDELINES FOR PREPARATION OF THESIS

THESIS FORMAT

The thesis manuscript has three basic parts: the preliminary pages, the text and the reference materials.

Preliminaries

The preliminary materials consist of the Title Page, Thesis Certificate, Abstract, and Dedication (optional), Acknowledgements, Table of Contents, List of Tables, List of Figures and Other Lists. Preliminary pages are paginated separately from the rest of the text. The title page is counted, but it is not numbered. Beginning with the page immediately following the title page, place page numbers in lowercase Roman numerals centered at the bottom of the preliminary pages. The Roman numerals are continued up to the first page of the text.

Proper Order of Preliminary Pages:

1. Title Page

The title of the thesis should be as concise as possible. It must occur consistently in every respect, including punctuation, capitalization, and hyphenation, on the abstract and approval forms. On the title page, the identical title must appear in all capital letters with each line centered on the page. The month in which the thesis is submitted, e.g., May, August, or January is to be printed at the bottom of the page. The title page is not numbered, but it is counted.

2. Abstract

The abstract should provide a succinct, descriptive account of the thesis. The abstract should not exceed 600 words, should be double-spaced, and should adhere to the same style manual as the thesis manuscript. The abstract should include pertinent place names, names of persons, and other proper nouns. These are useful in automated retrieval. A lower-case Roman numeral is used on the abstract page.

3. Dedication (Optional)

The dedication is brief, single-spaced, and centered on the page (horizontally and vertically). No heading is used. The word "To" customarily begins the dedication.

4. Acknowledgement

This section begins with the title ACKNOWLEDGEMENTS centered in all capital letters. This page is used to thank those persons who have been instrumental to the student in completing the degree requirements. Acknowledgement of grants and special funding received to support the research also may be made on this page.

5. Table of Contents

The Table of Contents must include all chapter headings, the bibliography, and appendices. Entries are 1.5 lines spaced. The headings of major sections (i.e., chapters, bibliography, appendices) are written in all capital letters. Table of Contents headings must be identical to those in the text. Page numbers listed must be right-justified and connected to the appropriate entry by a line of evenly spaced dot leaders (periods). The words TABLE OF CONTENTS must be centered on the page two inches from the top of the first page only.

6. List of Tables (If Tables Appear in Document)

The heading, LIST OF TABLES, appears centered on the page two inches from the top of the first page only. All table numbers and captions are listed exactly as they appear in the text.

7. List of Figures (If Figures Appear in Document)

The heading, LIST OF FIGURES, appears centered on the page two inches from the top of the first page only. All figure numbers and captions are listed exactly as they appear in the text.

8

. Other Lists (Nomenclature, Definitions, Glossary of Terms, Etc.)

The appropriate title in all capital letters is centered two inches from the top of the first page only.

PAGE DIMENSIONS AND MARGIN

The thesis should be prepared on good quality white paper preferably not lower than 80 gsm. Standard A4 size (210 mm X 297 mm) paper should be used for preparing the copies. The final thesis should have the following page margins:

Top Edge: 1 inch (25 mm)

Left Side: 1 ½ inch (38 mm)

Bottom Edge: 1 inch (25 mm)

Right Side: 1 inch (25 mm)

TYPE-SETTING, TEXT PROCESSING AND PRINTING

The text shall be printed employing Laserjet or Inkjet printer, the text having been processed using a standard LaTeX template prescribed by BRDC, NICHE . The standard font shall be Times New Roman of 12 pts with 1.5 line spacing. The text must be 1.5 lines spaced and printed on only one side of each page.

Text

The text must be divided into a logical scheme that is followed consistently throughout the document. The larger divisions and more important minor divisions are indicated by suitable, consistent headings. Chapter organization as practiced by the discipline should be followed. The student and the academic department are responsible for the quality and content of the text.

Specific requirements for text presentation is given below.

1. Headings and Subheadings

The student may use headings and subheadings to subdivide chapters or sections, but a consistent sequence of headings as identified in the style guide selected must be followed. The student may not change the sequence and style of headings from chapter to chapter. Once the sequence is chosen, it must be followed consistently throughout the thesis.

2. Pagination

Lower-case Roman numerals are used to number all pages preceding the text. Although the preliminary paging begins with the title page, no number appears on that page. The page immediately following the title page is numbered with a lower- case Roman numeral. Beginning with the first page of the text, all pages are to be numbered with Arabic numerals consecutively throughout the thesis document, including the appendix and the bibliography or list of references. The Arabic numerals must be positioned at the bottom of the page, centered between the margins. Page headers or running heads may not be used in the thesis.

3. Tables and Figures

The term "table" refers to a columnar arrangement of information, often data sets, organized to save space and convey relationships at a glance. The term "Figure" refers to graphs, drawings,

diagrams, charts, maps, or photographs. All such details should be inserted in the text near where they are first mentioned. A table or figure may appear on the same page as the text that refers to it or on a separate page. Each figure or table must be numbered and have a caption. Captions are placed below figures and pictures and above tables. Captions may be single- or double-spaced.

4. Illustrations

Each illustration must be referred to in the text and it must be placed after, and as near as possible to, the first reference to it in the text. All illustrative materials in the thesis must be prepared on paper that is the same weight (or stronger) and use the same font type as elsewhere in the manuscript. If illustrations are mounted, dry mounting must be used. Illustrations may not be mounted with rubber cement, staples, mucilage, or photo-mounting corners. Illustrative material must be drawn or computer-generated in black. Material may be laser-printed or drawn in waterproof, permanent ink. Color will reproduce in microfilm as shades of grey. Color should be used only if it is essential to the thesis.

5. Photographs

It is recommended that the student use a high quality, high contrast copying machine to reproduce photographic material for submission in lieu of photographs. If original photographs are used, they should be printed on single-weight, fiber-based paper with a matte finish. All prints must be processed for nationally established standards for chemical permanence. Black-and-white prints are preferable. Photograph page number placement follows the standard pagination requirements.

6. Appendix or Appendices

The appendix (or a series of appendices) immediately follows the main text. The appendix includes material that may be helpful to the reader of the thesis but may be too long for inclusion in the text or footnotes. The title, APPENDIX, appears only on the first page of the section, in capital letters centered two inches from the top. Examples of such material include questionnaires, letters, original data, sample forms, and vitae. Reference should be made in the text to the inclusion of these materials in the Appendix. Each appendix is a separate subdivision of the text and must begin on a separate page. Each appendix must be listed in the Table of Contents.

ORGANISATION OF THE THESIS

The thesis shall be presented in a number of chapters, starting with introduction and ending with Summary and Conclusions. Each of the other chapters will have precise title reflecting the contents of the chapter. A chapter can be subdivided into sections, sub- sections and subsub-section so as to present the content discretely and with due emphasis. Each chapter shall begin on a fresh page

1. Chapter and Section Format

The title of Chapter 1 shall be Introduction. It shall justify and highlight the problem poser and define the topic and the aim and scope of the work presented in the thesis. It may also highlight the significant contributions from the investigation.

Use only Arabic Numerals. Chapter Numbering should be centered on the top of the page using large bold print.

Example:

CHAPTER 1

Sections

A chapter can be divided into Sections, Sub-sections and Sub-sub-sections so as to present different concepts separately. Sections and sub-sections can be numbered using decimal points, e.g., 2.2 for the second Section in Chapter 2 and 2.3.4 for the fourth Subsection in third Section of Chapter 2. Use only Arabic Numerals with decimals. Section numbering should be left justified using large bold print.

Example:

1.1 GENERAL

1.2 OVERVIEW

Sub Sections

Use only Arabic Numerals with two decimals. Sub section numbering should be left justified using large bold print.

Example:

1.1.1 Background of Research

1.1.2 Outcome of Research

Etc

2. Review of Literature

This shall normally be Chapter 2 and shall present a critical appraisal of the previous work published in the literature pertaining to the topic of the investigation. The extent and emphasis of the chapter shall depend on the nature of the investigation.

For Example,

Several researchers attempted to develop mathematical models to simulate the activated sludge process. Some of these models simulate the organic removal mechanisms in wastewater treatment field, which were included in Jorgensen and Gromiec (1985),

Henze (1986), Henze *et al.*, (1987a), Tang *et al.*, (1987), and Van Niekerk *et al.*, (1988). The oxygen transfer mechanism has an important place in the activated sludge process.

An estimation technique for the oxygen transfer capacity is investigated by Stenstrom *et al.*, (1989).

3. Results and Discussions

This shall form the penultimate chapter of the thesis and shall include a thorough evaluation of the investigation carried out and bring out the contributions from the study. The discussion shall logically lead to inferences and conclusions as well as scope for possible further future work.

Table / Figure Format

As far as possible tables and figures should be presented in portrait style. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented in separate pages. Table and figures shall be numbered chapter – wise. For example, the fourth figure in Chapter 5 will bear the number Figure 5.4.

Table number and title will be placed above the table while the figure number and caption will be located below the figure. Reference for Table and Figures reproduced from elsewhere shall be cited in the last and separate line in the table and figure caption, e.g. (after McGregor [12]).

Equations

All the equations should be typed in equation editor and should be properly numbered

For Example,

$$\Delta X \propto X \Delta t \quad (2.1)$$

Table 5.4: Analysis of Tumor Segmentation on 3D-ircadb-01 Dataset with Different Methods

Techniques	RVD (%)	DICE (%)	VOE (%)	RMSD (mm)	ASD (mm)
U-Net	-15.82± 6.30	73.34± 0.84	37.34± 9.12	-	-
X-net	-10.68 ± 0.33	69.11 ± 5.83	36.09±12.61	23.6 ± 2.12	15.1 ± 0.61
MS-UNet	0.22 ± 0.55	84.15± 2.34	27.36±11.43	-	16.4 ± 0.42
DefED-Net	0.81±0.20	66.25±6.62	34.28±13.43	70.05±3.10	11.21±0.63
Proposed EAOFU-Net	-0.06±0.20	93.31±0.03	14.12± 2.76	10.04± 0.01	10.11 ± 0.13

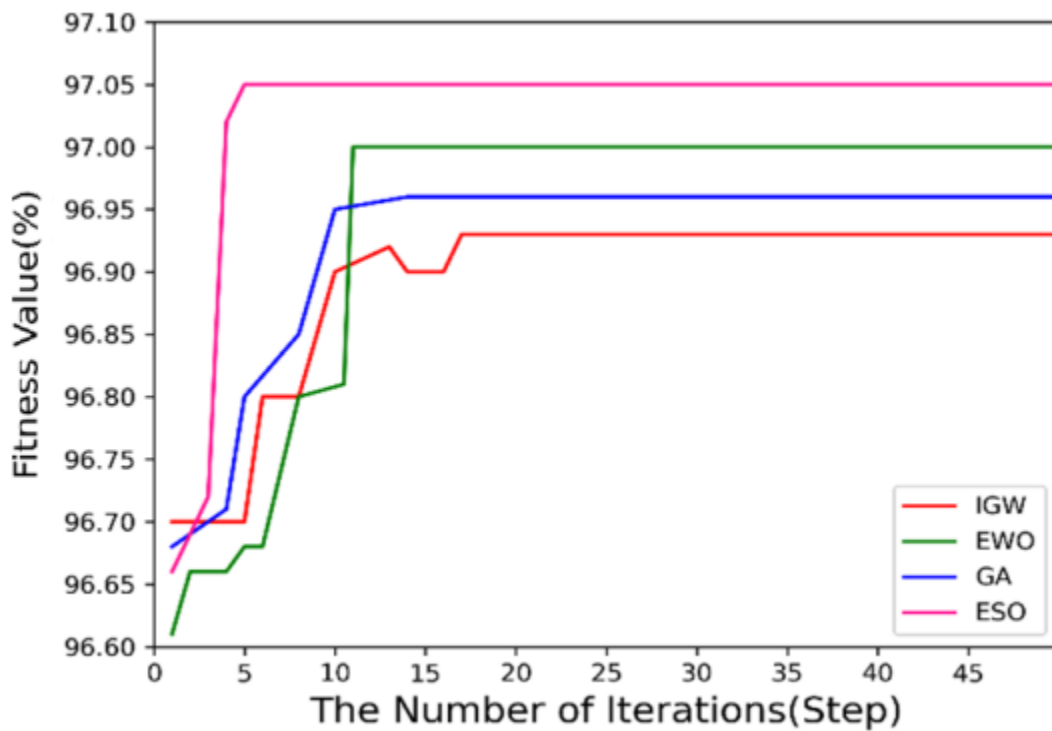


Figure 5.6: Convergence Curve

Please note: The Above is only a sample

4. Summary and Conclusions

This will be the final chapter of the thesis. A brief report of the work carried out shall form the first part of the Chapter. Conclusions derived from the logical analysis presented in the Results and Discussions Chapter shall be presented and clearly enumerated, each point stated separately. Scope for future work should be stated lucidly in the last part of the Chapter

Binding

The thesis shall be soft cover bound in leather or rexin with the black edge soft binding Front

Covers

The front cover shall contain the following details:

- Full title of thesis in 20 point's size font properly centered and positioned at the top.
- Full name of the candidate in 14 point's size font properly centered at the middle of the page.
- A 1.25 inch X 1.25 inch size of the Institute emblem followed by the name of the Department, name of the Institute and the year of submission, each in a separate line and properly centered and located at the bottom of the page.

REFERENCES

ORDER OF REFERENCES IN THE REFERENCE SECTION

- 1) Arrange entries in alphabetical order by surname of the first author.
- 2) Single-author entries precede multiple-author entries beginning with the same surname:
Kaufman, J. R. (1981). Kaufman, J. R., and Cochran, D. C. (1978).
- 3) References with the same first author and different second or third authors are arranged alphabetically by the surname of the second author, and so on: Kaufman, J. R., Jones, K., and Cochran, D. F. (1982). Kaufman, J. R., & Wong, D. F. (1978)
- 4) References with the same authors in the same order are arranged by year of publication, the earliest first: Kaufman, J. R., Jones, K. (1977). Kaufman, J. R., Jones, K. (1980).
- 5) The order of several works by different authors with the same surname is arranged alphabetically by the first initial: Eliot, A. L. (1983). Eliot, G. E. (1980).

EXAMPLES OF ITEMS IN A REFERENCE LIST

Although the format for, journal articles, books, magazine articles and other media is similar, there are some slight differences.

JOURNAL ARTICLES:

One Author: Herrington, A. J. (1985). Classrooms as forums for reasoning and writing. *College Composition and Communication*, 36(4), 404-413.

Two Authors: Horowitz, L. M., and Post, D. L. (1981). The prototype as a construct in abnormal psychology. *Journal of Abnormal Psychology*, 90(6), 575-585.

Society, Association, or Institution as Author: Institute on Rehabilitation Issues. (1975). Critical issues in rehabilitating the severely handicapped. *Rehabilitation Counseling Bulletin*, 18(4), 205-213.

BOOKS:

One Author: Castle, E. B. (1970). *The teacher*. London: Oxford University Press.

Two Authors: McCandless, B. R., and Evans, E. D. (1973). *Children and youth: Psychosocial development*. Hinsdale, IL: Dryden Press.

Three or More Authors: (list each author) Smith, V., Barr, R., and Burke, D. (1976). *Alternatives in education: Freedom to choose*. Bloomington, IN: Phi Delta Kappa, Educational Foundation.

Society, Association, or Institution as Author and Publisher: American Psychiatric Association. (1980). Diagnostic and statistical manual of mental disorders (3rd ed.). Washington, D.C.: Author.

Editor or Compiler as Author: Rich, J. M. (Ed.). (1972). Readings in the philosophy of education (2nd ed.). Belmont, CA: Wadsworth.

Chapter, Essay, or Article by One Author in a Book or Encyclopedia Edited by Another: Medley, D. M. (1983). Teacher effectiveness. In H. E. Mitzel (Ed.), Encyclopedia of educational research (Vol. 4, pp. 1894-1903). New York: The Free Press.

NEWSPAPER ARTICLES:

No author: More jobs waiting for college grads. (1986, June 17). Detroit Free Press, pp. 1A, 3A.

MAGAZINES:

One Author: Powledge, T. M. (1983, July). The importance of being twins. Psychology Today, 19, 20-27.

No Author: CBS invades Cuba, returns with Irakere: Havana jam. (1979, May 3). Down Beat, 10.

MICROFORMS:

ERIC Report: Plantes, Mary Kay. (1979). The effect of work experience on young men's earnings. (Report No. IRP-DP-567-79). Madison: Wisconsin University. Madison Institute for Research on Poverty. (ERIC Document Reproduction Service No. ED183687)

ERIC Paper Presented at a Meeting: Whipple, W. S. (1977, January). Changing attitude through behavior modification. Paper presented at the annual meeting of the National Association of Secondary School Principals, New Orleans, LA. (ERIC Document Reproduction Service No. ED146500)

AUDIOVISUAL MEDIA AND SPECIAL INSTRUCTIONAL MATERIALS:

This Category Includes the Following Types of Non-Book Materials:

Audiorecord

Flashcard Motion Picture

Videorecording

Slide

Kit

Chart

Game

Picture

Transparency

Realia

Filmstrip

A bibliographic/reference format for these non-print materials is as follows:

Author's name (inverted. ----Author's function, i.e., Producer, Director, Speaker, etc. in parentheses. ----Date of publication in parentheses----Title. ----Medium in brackets after title, [Filmstrip]. HOWEVER, if it is necessary to use a number after a medium for identification or retrieval purposes, use parentheses instead of brackets, e.g., (Audiorecord No. 4321). ----Place of publication: Publisher.

Maas, J. B. (Producer), & Gluck, D. H. (Director). (1979). Deeper in hypnosis [Motion Picture]. Englewood Cliffs, NJ: Prentice-Hall.

ELECTRONIC MEDIA:

Materials available via the Internet include journals, newspapers, research papers, government reports, web pages, etc. When citing an Internet source, one should:

- i.** Provide as much information as possible that will help readers relocate the information.

Also try to reference specific documents rather than web pages when possible.

- ii.** Give accurate, working addresses (URLs) or Digital Object Identifiers.

References to Internet sources should include at least the following four items:

- i.** A title or description
- ii.** A date (either date of publication or date of retrieval)
- iii.** An address (URL) or Digital Object Identifier
- iv.** An author's name, if available

In an effort to solve the problem of changed addresses and broken links, publishers have begun to assign Digital Object Identifiers (DOI) to documents, particularly to scholarly journal articles. DOIs should be used in reference lists when they are available. A DOI may be pasted into the DOI Resolver at <http://www.crossref.org/> to confirm a citation. For journal articles, if no DOI is available, a database name or URL may be added for particularly difficult to find publications. Since journal articles, unlike many web pages, are unlikely to change, a retrieval

date is not necessary. Electronic book citations only need source information when the book is difficult to find or only available electronically.

Internet article based on a print source (exact duplicate) with DOI assigned:

Stultz, J. (2006). Integrating exposure therapy and analytic therapy in trauma treatment. *American Journal of Orthopsychiatry*, 76(4), 482-488. doi:10.1037/0002-9432.76.4.482

Article in an Internet only journal with no DOI assigned:

Sillick, T. J., and Schutte, N. S. (2006). Emotional intelligence and self-esteem mediate between perceived early parental love and adult happiness. *E-Journal of Applied Psychology*, 2(2), 38-48. Retrieved from <http://ojs.lib.swin.edu.au/index.php/ejap/article/view/71/100>

Daily newspaper article, electronic version available by search:

Botha, T. (1999, February 21). The Statue of Liberty, Central Park and me. *The New York Times*. Retrieved from <http://www.nytimes.com>

Webpage:

Raymon H. Mulford Library, The University of Toledo Health Science Campus. (2008). Instructions to authors in the health sciences. Retrieved June 17, 2008, from <http://mulford.mco.edu/instr/>

Annual Report:

Pearson PLC. (2005). Reading allowed: Annual review and summary financial statements 2004. Retrieved from http://www.pearson.com/investor/ar2004/pdfs/summary_report_2004.pdf

References Examples

- [1] American Psychological Association. (2008). Electronic resources. Retrieved June 17, 2008 from <http://www.apastyle.org/electref.html>.
- [2] American Psychological Association. (2008). Frequently asked questions. Retrieved June 17, 2008 from <http://www.apastyle.org/faqs.html>.
- [3] Bloom, B. S. (Ed.). (1956). *Taxonomy of educational objectives: The classification of educational goals, by a committee of college and university examiners*. New York: D. McKay.

- [4] Botha, T. (1999, February 21). The Statue of Liberty, Central Park and me. The New York Times. Retrieved from <http://www.nytimes.com>
- [5] CBS invades Cuba, returns with Irakere: Havana jam. (1979, May 3). Down Beat, 10.
- [6] Herrington, A. J. (1985). Classrooms as forums for reasoning and writing. *College Composition and Communication*, 36(4), 404-413.
- [7] Maas, J. B. (Producer), & Gluck, D. H. (Director). (1979). *Deeper in hypnosis* [Motion Picture]. Englewood Cliffs, NJ: Prentice-Hall.
- [8] Mandel, B. J. (1978). Losing one's mind: Learning to write and edit. *College Composition and Communication*, 29, 263-268.
- [9] Medley, D. M. (1982). Teacher effectiveness. In H. E. Mitzel (Ed.), *Encyclopedia of educational research* (Vol. 4, pp. 1894-1903). New York: The Free Press.
- [10] Raymon H. Mulford Library, The University of Toledo Health Science Campus. (2008). Instructions to authors in the health sciences. Retrieved June 17, 2008, from <http://mulford.mco.edu/instr/>
- [11] Sillick, T. J., & Schutte, N. S. (2006). Emotional intelligence and self-esteem mediate between perceived early parental love and adult happiness. *E-Journal of Applied Psychology*, 2(2), 38-48. Retrieved from <http://ojs.lib.swin.edu.au/index.php/ejap/article/view/71/100>
- [12] Stultz, J. (2006). Integrating exposure therapy and analytic therapy in trauma treatment. *American Journal of Orthopsychiatry*, 76(4), 482-488. doi:10.1037/0002-9432.76.4.482

Appendix I

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Glossary

- Accuracy - A term used in survey research to refer to the match between the target population and the sample.
- CaseStudy-Thecollectionandpresentationofdetailedinformationaboutaparticular participant or small group, frequently including the accounts of subjects themselves.
- Causality-The relation between cause and effect.
- Deviation-The distance between the mean and a particular data point in a given distribution.
- Electronic Text - A "paper" or linear text that has been essentially "copied" into an electronic medium.

LIST OF PUBLICATIONS BASED ON THESIS

- I. National/International Journals
 - 1.
 - 2.
- II. National/International Conference Presentations/Proceedings

QUICK REFERENCE

PAGE DIMENSIONS AND MARGIN

Paper Size: 80 gsm (Bond).

Standard A4 size (210 mm X 297 mm)

Margins Top Edge: 1 inch (25 mm) Left Side: 1 ½ inch (38 mm) Bottom Edge: 1 inch (25 mm)

Right Side: 1 inch (25 mm)

Print Out: Laserjet or Inkjet Printer, printed on only one side

Font Size (Regular Text): Times New Roman of 12 pts Spacing: 1.5 line spacing

Chapters: 14 pts bold Centre aligned (Capital Letters)

Sections: 12 pts bold left aligned (Capital Letters)

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