SOLVING THE HYDROTHERMAL COORDINATION PROBLEM USING AN ARTIFICIAL IMMUNE SYSTEM METHOD

Presented in partial fulfillment for the award of the
Bachelor of Electrical Engineering (Hons)
UNIVERSITI TEKNOLOGI MARA

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ACKNOWLEDGEMENT

In the name of Allah S.A.W the most gracious and the most merciful. All the praise to Allah S.A.W for the strength, abilility and patience to complete this electrical project.

I would like to express my deepest gratitude and thanks to my dearest project supervisor Prof. Madya Dr. Titik Khawa binti Abd. Rahman for her supports, guidance, invaluable suggestion and concern to make this special project a success.

Special thanks to my family especially my parents for their concern and support especially for the material and spiritual support.

I would also like to thanks to all my beloved friends especially Lin for their useful comments, helps and contributions.

Last but not least, it is to be my pleasure and hope to have this project report as a guidance for future students.

ABSTRACT

Biological systems such as Artificial Immune System (AIS) can be regarded as sophisticated information processing systems and can be expected to provide inspiration for various ideas to science and engineering. This report presents a short-term hydrothermal coordination (SHC) scheduling solution using the AIS method. Short-term hydrothermal scheduling involves the hour-by hour scheduling of all hydro and thermal generation in a system to achieve minimum production cost of the thermal unit for given time period.

TABLE OF CONTENTS

CHAPTER	DESCRIPTION	PAGE
	DECLARATION	i
	ACKNOWLEDGEMENT	ii
	ABSTRACT	iii
	TABLE OF CONTENTS	iv
	LIST OF FIGURES	vii
	LIST OF TABLES	viii
	LIST OF ABBREVIATIONS	ix
ONE	BACKGROUND OF THESIS	
	1.1 Introduction	1
	1.2 Aim of the project	2
	1.3 Objectives	2
	1.4 Scope of thesis	3
	1.5 Structure of project	3
	1.6 Methodology	4
TWO	HYDROTHERMAL COORDINATION PROBLEM	
	2.1 Introduction	5
	2.2 Short-range hydro Scheduling	6
	2.3 Types of scheduling	7
	2.4 Scheduling energy	8
	2.5 The short-term hydrothermal scheduling problem	12

CHAPTER	DESCRIPTION	PAGE
THREE	ARTIFICIAL IMMUNE SYSTEM	
	3.1 Introduction	16
	3.2 The clonal selection theory	17
	3.2.1 Reinforcement learning and immune memory	18
	3.2.2 Somatic hyper mutation, receptor editing and repertoire diversity	21
	3.3 AIS based on scheduling problem	23
FOUR	C++ PROGRAMMING	
	4.1 Introduction	24
	4.2 A working c program	24
	4.3 If; relational operator	26
	4.4 While statement	27
	4.5 Arithmetic	29
	4.6 Else Clause; Conditional Expression	30
	4.7 Increment and Decrement Operators	32
	4.8 Arrays	32
	4.9 Character Arrays: Strings	34
	4.10 For Statement	35
	4.11 Structures	36
	4.12 Initialization	40
	4.13 Scope Rules	41
	4.14 #define,#include	43
	4.15 Bit Operators	44
	4.16 Assignment Operators	44
	4.17 Floating Point	45
	4.18 Goto's and Labels	56