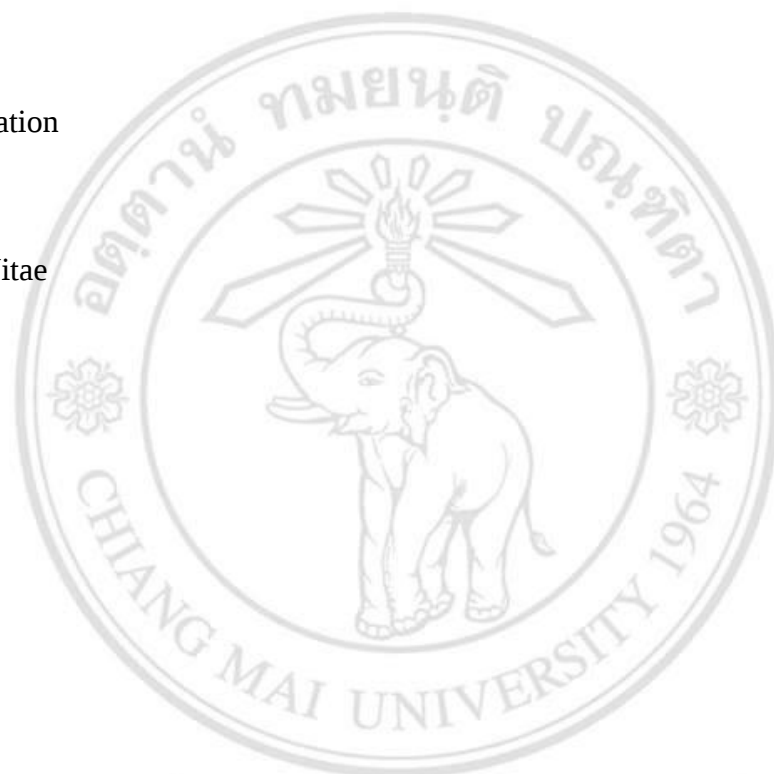


CONTENTS

	Page
Acknowledgment	c
Abstract in Thai	d
Abstract in English	e
List of Tables	i
List of Figures	j
Statements of Originality in Thai	k
Statements of Originality in English	l
Chapter 1 Introduction	1
1.1 Statement and significant of the problem	1
1.2 Problem statement	2
1.3 Literatures review	3
1.4 Thesis Objectives	6
1.5 Scope of Thesis	6
1.6 Research location	6
1.7 Outline of the thesis	6
Chapter 2 Optimal Power Flow with FACTS controller	8
2.1 Overview of FACTS controller	8
2.1.1 Static VAR Compensator: SVC	9
2.1.2 Thyristor Controlled Phase Shifter: TCPS	10
2.1.3 Thyristor Controlled Series Compensator: TCSC	11
2.1.4 Unified Power Flow Controller: UPFC	12
2.2 Applications of FACTS controller	13
2.3 Optimal Power Flow (OPF)	14
2.3.1 Objective function	15

2.3.2 State variable and control variable	16
2.3.3 General power flow calculating	17
2.3.4 Equality constraint	18
2.3.5 Inequality constraint	20
2.3.6 Penalty function	22
2.4 Optimal power flow solving	23
2.4.1 Conventional method	23
2.4.2 Artificial intelligence	25
2.5 Optimal Power Flow with FACTS controller	25
Chapter 3 Hybrid Particle Swarm Optimization	27
3.1 Particle Swarm Optimization	27
3.2 Evolutionary Programming	30
3.3 Tabu search	32
3.4 Hybrid Particle Swarm Optimization	33
Chapter 4 Multi-Objective Function Solving	38
4.1 Multi-objective optimization	38
4.2 Fuzzy C-means clustering	39
4.3 Tournament scheme selection	41
4.4 FCM with selection scheme selection	42
4.5 Hybrid PSO with FCM/S	44
Chapter 5 Experimental Results	49
5.1 Problem formulation of single-objective function	49
5.2 Experimental results of single-objective function	53
5.2.1 The IEEE RTS 24-bus system	54
5.2.2 The IEEE 30-bus system	55
5.2.3 The IEEE 118-bus system	56
5.2.4 The Thai Power 160-bus system	57
5.3 Problem formulation of multi-objective function	58
5.4 Experimental results of multi-objective function	60
5.4.1 The IEEE RTS 24-bus system	60

5.4.2 The IEEE 30-bus system	61
5.4.3 The IEEE 118-bus system	63
5.4.4 The Thai Power 160-bus system	64
Chapter 6 Conclusion and Further Research	66
6.1 Conclusion	66
6.2 Further research	67
References	68
List of publication	73
Appendix	74
Curriculum Vitae	107



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LIST OF TABLES

	Page
Table 3.1 The advantages and limitation of each method	34
Table 5.1 TTC Values on the IEEE RTS 24-Bus System	55
Table 5.2 Optimal Placement of FACTS controllers on the IEEE RTS 24-Bus System	55
Table 5.3 TTC Values on the IEEE 30-Bus System	56
Table 5.4 Optimal Placement of FACTS controllers on the IEEE 30-Bus System	56
Table 5.5 TTC Values on the IEEE 118-Bus System	57
Table 5.6 Optimal Placement of FACTS controllers on the IEEE 118-Bus System	57
Table 5.7 TTC Values on the Thai Power 160-Bus System	58
Table 5.8 Optimal Placement of FACTS controllers on the Thai Power 160-Bus System	58
Table 5.9 TTC Values, Cost of FACTS controller and Losses on the IEEE RTS 24-bus system	60
Table 5.10 Optimal Placement of FACTS controllers on the IEEE RTS 24-bus System	60
Table 5.11 TTC Values, Cost of FACTS controller and Losses on the IEEE 30-bus system	62
Table 5.12 Optimal Placement of FACTS controllers on the IEEE 30-bus System	62
Table 5.13 TTC Values, Cost of FACTS controller and Losses on the IEEE 118bus system	63
Table 5.14 Optimal Placement of FACTS controllers on the IEEE 118-bus System	63
Table 5.15 TTC Values, Cost of FACTS controller and Losses on the Thai Power 160-bus system	64
Table 5.16 Optimal Placement of FACTS controllers on the Thai Power 160-bus System	64

LIST OF FIGURES

	Page
Figure 2.1 Basic structure of SVC	10
Figure 2.2 Basic structure of TCPS	11
Figure 2.3 Basic structure of TCSC	11
Figure 2.4 Basic structure of UPFC	12
Figure 2.5 Penalty function of limitation of voltage magnitude	22
Figure 2.6 Partial global points and local points of objective function	24
Figure 3.1 Concept of searching point by PSO	27
Figure 3.2 The flowchart of PSO	29
Figure 3.3 Figure 3.3 The flowchart of EP	31
Figure 3.4 The generic flowchart of TS	33
Figure 3.5 A flowchart of hybrid PSO	35
Figure 4.1 Flowchart of FCM	41
Figure 4.2 Flowchart of FCM with FCM/S	43
Figure 4.3 Flowchart of hybrid PSO with FCM/S	45
Figure 4.4 Flowchart of EP with FCM/S	46
Figure 4.5 Flowchart of TS with FCM/S	47
Figure 4.6 Flowchart of PSO with FCM/S	48
Figure 5.1 The comparing of convergence from all method	54
Figure 5.2 Pareto-optimal fronts of IEEE RTS 24-bus by using the proposed hybrid PSO with FCM/S	61
Figure 5.3 Pareto-optimal fronts of IEEE 30-bus by using the proposed hybrid PSO with FCM/S	62
Figure 5.4 Pareto-optimal fronts of IEEE 118-bus by using the proposed hybrid PSO with FCM/S	64
Figure 5.5 Pareto-optimal fronts of Thai Power 160-bus by using the proposed hybrid PSO with FCM/S	65

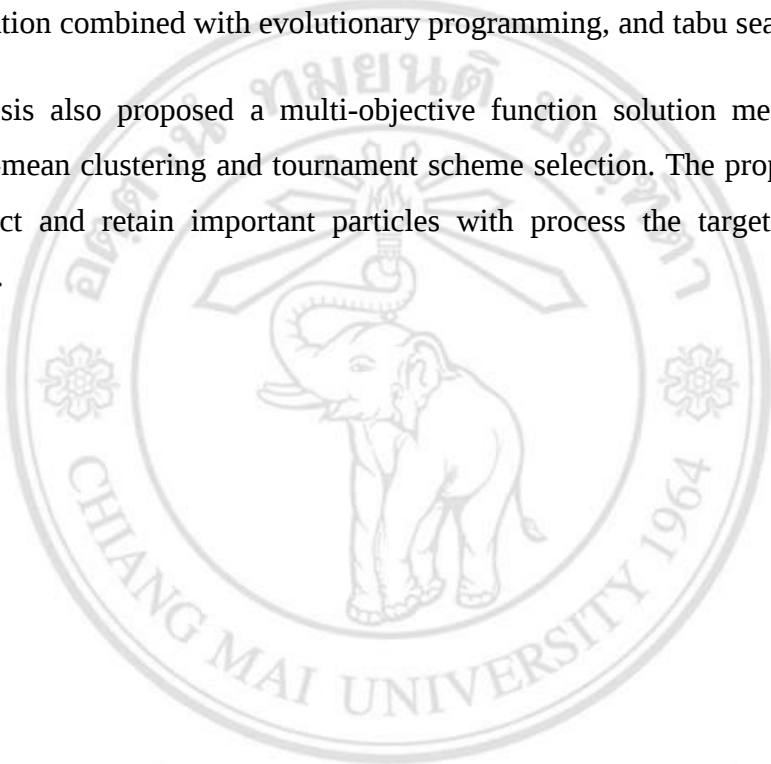
ข้อความแห่งการริเริ่ม

- 1) วิทยานิพนธ์นี้นำเสนอวิธีการหาค่าที่เหมาะสมบนพื้นฐานของการหาค่าที่เหมาะสมของการเคลื่อนที่ของกลุ่มอนุภาคร่วมกับวิธีการคำนวณเชิงวิวัฒนาการและการค้นหาแบบตาบอด
- 2) วิทยานิพนธ์นี้ยังได้นำเสนอวิธีการแก้ปัญหาฟังก์ชันหลายวัตถุประสงค์บนพื้นฐานของการจัดกลุ่มด้วยฟuzzyซิมินและการคัดเลือกแบบทัวนาเมนต์โดยวิธีการนี้สามารถเลือกและคงอนุภาคที่สำคัญที่มีค่าตามเป้าหมายของฟังก์ชันวัตถุประสงค์เอาไว้ได้

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STATEMENTS OF ORIGINALITY

1. This thesis proposed an optimization method based on particle swarm optimization combined with evolutionary programming, and tabu search.
2. This thesis also proposed a multi-objective function solution method base on fuzzy C-mean clustering and tournament scheme selection. The proposed method can select and retain important particles with process the target of objective function.

The seal of Chiang Mai University is a circular emblem. It features a central illustration of an elephant standing and facing left, with a traditional Thai umbrella (parasol) above its head. The elephant is surrounded by a circular border containing the text "CHIANG MAI UNIVERSITY 1964". Above the elephant, there is Thai script. The seal is rendered in a light gray, semi-transparent style.

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