



Basic Information :

Name : Mohamad Abd-Alraheim Badr
Title : Dean

Mohamed Abdelreheim Mohamed Badr
Dean of Faculty of Engineering and Technology ,Future University in Egypt (FUE)
was born on October ,1,1944

Education :

Certificate	Major	University	Year
PhD	Electrical Power and Machines	University of Saskatchewan- Canada	1974
Masters	Electrical Power and Machines	University of Saskatchewan- Canada	1971
Masters	Automatic Control	Ain-Shams University Egypt	1969
Bachelor	Electrical Power and Machines	Cairo University Egypt	1965

Teaching Experience :

Name Of Organization	Position	From Date	To Date
Supreme Council of Egyptian Universities	Member, Electrical Power and Machines Staff Members Promoting Committee	01/01/2016	01/01/2018
Supreme Council of Egyptian Universities	Member, Electrical Power and Machines Staff Members Promoting Committee	01/01/2016	01/01/2018
Faculty of Engineering and Technology Future University in Egypt (FUE)	Dean	01/01/2006	01/01/2014
Supreme Council of Egyptian Universities	Secretary General Electrical Power and Machines Staff Members Promoting Committee	01/01/2001	01/01/2013
Faculty of Engineering Ain-Shams University	Vice Dean	01/01/1999	01/01/2005
Faculty of Engineering Ain-Shams University	Professor	01/01/1996	01/01/2005
Faculty of Engineering King Saud University , Riyadh Saudi Arabia	Professor	01/01/1990	01/01/1996
Faculty of Engineering Ain-Shams University	Professor	01/01/1985	01/01/1990
Faculty of Engineering , King Abdul-Aziz University, Jeddah, Saudi Arabia.	Associate Professor	01/01/1980	01/01/1985
Faculty of Engineering , Ain Shams University, Cairo, Egypt.	Assistant Professor	01/01/1976	01/01/1980
University of Saskatchewan Canada	Assistant Professor	01/01/1974	01/01/1976
Electrical Engineering Department, Ain Shams University, Cairo, Egypt.	Assistant Lecturar	01/01/1969	01/01/1976
Electrical Engineering Department, Ain Shams University, Cairo, Egypt.	Teaching Assistant	01/01/1965	01/01/1969

Research :

Master Thesis (1)

Master Thesis (2)

PhD Thesis

Participated in the translation of the IEEE Dictionary Terminologies

Participate in the translation of the book “ Basic Electrical Engineering”, by Fitzgerald, Higinbotham and Gabel ; McGraw-Hill)

Translation of the book "alternators: Design and Implementation"

Participated in translating the World Book Encyclopedia

Program for studying the dynamic stability of conventional synchronous ' machines

Program for studying the dynamic stability of dual-excited synchronous machines

Program for studying the transient stability of dual-excited synchronous machines'

Program for calculating the different reactances, time constants and short circuit currents of dual-excited synchronous machines

Modeling and dynamic analysis of electrical power systems

Operation of three phase reluctance motors fed from a single phase power supply

An improved teaching simulation of synchronous machines.

The Capacitive Power Loading of dual - excited synchronous machines

Analysis of the dual-excited synchronous machine

Per-unit system for the dual excited synchronous machine

Extension of the under excited stable region of the dual-excited synchronous machine

Choice of the excitation system parameters for maximum possible capacitive power loading of dual- excited synchronous generators

Discussion on the paper: “ Closed Loop optimization for power systems with two-axis excitation control” By Subramaniam, p. and Malik, O.P.

Discussion on the paper: “ Effect of synchronous machine modeling in large scale system studies“, by Dandeno, P.L., Hauth, R.L. and Shulz, R.P.

Limitations of increasing the maximum possible capacitive power loading of dual-excited synchronous condensers

Self Excited Oscillations of Dual- Excited Synchronous Machines,

Equivalent two-phase representation of an n-m phase salient pole machine

Dynamic behaviour of dual-excited synchronous machines, “ Paper No. F6, (Invited Paper)

Discussion on the paper, Suppression of self-excited oscillations in series-compensated transmission lines by excitation control of synchronous machines, by O. Saito, H. Mukue and K. Murotaini

Discussion on the paper “The dynamic stability of steam turbine driven synchronous generators under leading power factor load conditions’. by J.L. Dineley and S.E. Mikhail

Effect of the different modes of operation and schemes of excitation control on the transient Stability of dual-excited Alternators

Discussion on the paper, ‘ Stability comparisons of two fields and conventional synchronous machines with excitation control ', by D.H. Baker and P.C. Krause

Discussion on the paper, ‘ An efficient multi-machine formulation for power system dynamic stability studies including electrical transients ', by H.M. Zein El-Din and R.T.H. Alden

Discussion on the paper, ‘ Effect of feedback Stabilizing signals in excitation control and governors/ turbine systems on transient and dynamic Stability, by J.L. Dineley and S.E. Mikhail

Discussion on the paper, ‘Operating problems encountered under light load conditions’ by F. Denny, R.A. Bednarik, J.L. Ray and Joe. Walsh (A Task Force Report)

Discussion on the paper ‘ A dynamic model of saturated synchronous machines ', By V.K. Garg, N.A. Demerdash and L.L. Grigeby

Discussion on the paper, ‘ Evaluating alternative models for power system dynamic stability studies, ' By R.T.H. Alden and P.J. Nolan

Effect of synchronous generator regulation on the subsynchronous resonance phenomenon in power systems

Discussion on the paper “ Effect of excitation control on self-excited oscillations of dual-excited synchronous machines
Discussion on the paper: ‘ Damping of torsional oscillations in power systems with series Compensated lines ‘ By A.A. Fouad and K.T. Khu
Equivalent circuits, time constants and reactances of dual-excited synchronous machines
Contribution to the theory of dual-excited synchronous machines. Part I: Block diagram representation
Contribution to the theory of dual-excited synchronous machines, part II. Dynamic stability considerations
Block diagram approach to dynamic modeling and stability analysis of dual-excited synchronous machines.
Constant frequency Alternator for wind mills
Discussion on the paper, “ Contribution to the theory of torsional interactions between generators
Analysis of torque components in regulated doubly excited synchronous generators
An efficient analogue computer simulator for dual-excited synchronous generators
Computation of steady-state operating conditions of turbo alternators taking saturation into account
Operational form modeling and analogue simulation of series compensated power systems
Excitation control systems
Transient stability of synchronous generators with slip frequency excitation
controllability of the q-axis field winding of synchronous generators
Dynamic stability of synchronous generators with slip frequency excitation
Power system damping enhancement by supplementary two-axis excitation control
Enhancement of damping characteristics of a two-machine power system
Transient stability analysis of Petrumine-Jeddah power network
Method for improving the voltage regulation characteristics of super-conducting turbo-generators
Validity of the inertial model representation of turbo-generators in strongly coupled power systems
Experimental realization of the dynamics of modern excitation control systems
Enhancing the damping torques in multimachine power systems by speed plus. power signal stabilization
Analysis of the self excitation phenomenon of synchronous machines using an efficient analogue simulator
Static and dynamic performance of interconnected HVAC power systems with static VAR Compensators
Analysis of the self-dual excited synchronous machine-Part (1), “Development of the general mathematical model
Design of a digital power system stabilizer
On line tracking of synchronous machine dynamics
Improving the sub-synchronous resonance stability margins through supplementary excitation control
A novel technique For direct On-line starting of pump storage synchronous machines
Digital power systems stabilizer design and experimental verification
Modeling and simulation of a power systems stabilizer for multi-machine power systems
Starting of the three phase reluctance motor from a single phase supply
Time domain and frequency domain calculations of induction motor performance when fed from a non-sinusoidal supply
Design of power system stabilizer using the pole-placement technique
Effect of static var Compensators on damping of power oscillations in HVAC power systems
Transient analysis of three phase reluctance motors fed from a single phase supply

Starting transients of three phase synchronous motors connected to a single phase supply
Effect of machine and balancer parameters on the pulling into step of three phase reluctance motors fed from a single phase supply
A capacitor start three phase induction motor
Determination of best sites and sizes of SVC for voltage profile control in HVAC power system
An efficient identifier for synchronous machine dynamics, European Transactions on Electrical Power Systems
Effect of torsional dynamics on salient pole synchronous motor-driven compressors
A non conventional method for fast starting of three phase wound rotor induction motors
Torsional oscillations associated with the starting of three phase synchronous motors fed from a single phase supply
synchronization problem of high performance reluctance motors
Smooth Starting of slip-ring induction motors
Transient performance of series connected three phase slip-ring induction motors
Starting transients of three phase reluctance motors as affected by torsional dynamics
Transient Analysis of a two speed synchronous induction motor
A. comparative Study on the starting methods of three phase wound rotor induction motors Part I
Torsional Oscillation Problems Associated with Shunt Induction Motor Driven Distributed Inertias
A Modified Block Diagram Representation of Synchronous Machines With Damper". Proceedings,
Operating characteristics of the shunt connected three phase induction motor
A Comparative study on the Starting Methods of three phase wound rotor induction motors part II
The Engineer as an Effective Member in the Age of Informatics
Power System damping enhancement using artificial neural networks
Electromechanical Transients of Series Connected Three Phase Slip Ring Induction Motors
Perfect Field Oriented Brushless DC Motor
Digital compensation technique For the Improvement Of the Comb Drive Actuator transient response
Impact of Distributed Generating Units on power system Losses and Voltage Regulation
Speed regulation of Switched Reluctance Motor Drives by Optimized Harmonic Injection Techniques
Field Oriented VectorControl of Synchronous Motors with Additional Field Winding
Power System EfficiencyAnd Voltage Regulations As Affected By Dispersed Generation
Torque Ripple Minimization Of Switched Reluctance Motor Using Lead-Lag Compensator Controller
Speed Control ofAxial Laminations Switched Reluctance Motor Provided with Digital Pole placement technique
Steady State Performance Of Axial Laminations Switched Reluctance Motor
Efficiency optimization control of a three phase induction motor
Modal-Based Analysis of Induction Generator-Infinite Bus System
ANN for Subsynchronous Resonance Detection
Analysis of Subsynchronous Resonance Using Neural Networks
Fuzzy logic control of brushless doubly fed induction generator
Improving the Dynamic Performance of Brushless Doubly Fed Induction Generator Driven by Vector Control with Variable Gain
ANN-Based Optimal Energy Control ofInduction Motors

, " Application of LQR Theory to the Stator Field Oriented Control of Induction Motors
 A Microturbine Interface System with LVRT Capability
 Advanced modeling and analysis of the loading capability limits of doubly-fed induction generators
 Coupling of Wind Farms with Nuclear Power Plants
 Analysis of permanent magnet synchronous motor using artificial neural network for electric vehicles
 Sizing Of Reactive Power Compensators For Onshore And Offshore Grid Connected Wind Farms
 An Efficient Speed Controller of Three Phase Induction Motors Through Direct Torque Control

Conference :

Canadian institute of electrical engineers congress, Oct, 2, 1972, Saskatoon, Sask., Canada.
 IEEE power meeting, July 15, 1973 Vancouver, British Columbia, Canada.
 IEEE Power Meeting, July 12, 1975, San Francisco
 International Conference on Measurements and control, (MECO), June 1979, Grenoble, France.
 International Conference on simulation, Modeling and Development, (IASTED), Sept. 1, 1981, Cairo, Egypt.
 First Saudi Engineering Conference, May, 1983, Jeddah, Saudi Arabia.
 Association of Modeling and Simulation Conference (AMSE), Mar. 2, 1987, Cairo, Egypt.
 Statistics and computer applications conference, Ain -Shams Univ., Mar 1988, Cairo, Egypt.
 Al-Azhar first Engineering conference, AEC , Cairo, Egypt, Dec 9-12, 1989.
 Eleventh Annual Operational Research Conference, Zagazig Univ., Nov 26, 1988, Cairo, Egypt.
 Fourth Saudi Engineering Conference, Nov. 1991, Riyadh, Saudi Arabia.
 Al-Azhar second Engineering conference, AEC , Cairo, Egypt, Dec November, 1991.
 IEEE Power Engineering Society Meeting, Tampa, Florida, U.S.A, Feb 1-5, 1998.
 The 6 th International Middle East Power Conference, Mansoura University, Egypt, Dec 14-17, 1998
 The 7 th International Middle East power Conference" Ain- Shams University, Cairo, Egypt March, 28-30, 2000
 The 8 th International Middle East power Conference" Helwan University, Cairo, Egypt March, 28-30, 2000.
 International conference on electrical engineering, Military Technical College, Cairo Egypt , may 2003
 The 9 th Middle East International Conference on electrical
 Faculty of Engineering Ain-Shams University first International Conference on Electrical Engineering, Cairo, Egypt, December 2004
 Ain-Shams University First International Conference On Environmental Engineering, Cairo Egypt April, 2005.
 International conference on electrical engineering, Military Technical College, Cairo Egypt , may 2005
 The 10 th Middle East International Conference on electrical
 International conference on electrical engineering, Military Technical College, Cairo Egypt , may 2006
 Seventh Conference of the Association of the Faculties of Engineering in the Arabian Universities
 Ain-Shams University Second International Conference On Environmental Engineering, Cairo Egypt , April, 2007
 Ain-Shams University Third International Conference On Environmental Engineering, Cairo Egypt
 The 26 National Radio Conference (URSI26), Scientific Research Academy in co-operation with Future University in EGYPT (FUE)

Awards :

Award	Donor	Date
Certificate of Appreciation for outstanding efforts	Ain Shams University , Cairo Egypt	01/01/2005
State Prize in scientific excellence in engineering science in 2004.	Academy of Scientific Research - Arab Republic of Egypt	01/01/2004
State Incentive Award in Engineering Science from the Arab Republic of Egypt in 1997.	Academy of Scientific Research - Arab Republic of Egypt	01/01/1997
Certificate of Appreciation for outstanding performance	King Saud University , Riyadh Saudi Arabia	01/01/1996
Certificate of Appreciation for outstanding performance	King Abdul Aziz University , Jeddah , Saudi Arabia	01/01/1985
Cup of Best speaker .	University of Saskatchewan, Canada	01/01/1974