

## CURRICULUM VITAE (C.V.)



Ali Ajami was born in Tabriz, Iran in 1973. He received B. Sc. and M. Sc. degrees from electrical and computer engineering faculty of Tabriz university, Iran in the electronic engineering and power engineering at 1996 and 1999 respectively. He received the P.H.D. degree at 2005 from the electrical and computer engineering faculty of Tabriz university, Iran in the power engineering.

In 2001 he joined the electrical engineering department of Azarbaijan University of Tarbiat Moallem, Iran.

**He is dean of information technology and computer engineering faculty of Azarbaijan university of Tarbiat Moallem from 2007.**

**He is a regular member of Institute of Control, Robotics and Systems, Korea from 2007.**

**He is a member of International Association of Computer Science and Information Technology (IACSIT) from 2009.**

His main research interests include the dynamic and steady state modeling and analysis of FACTS devices such as SSSC and STATCOM, UPFC, harmonics and power quality compensation systems such as Active Filters, UPQC and microprocessor and computer based control systems.

### **B. Sc., M. Sc. and P.H.D. theses are:**

- 1- Designing and Making a Control System of AC\_AC Converter Using 8051 Microcontroller.
- 2- Dynamic Compensation of Power Systems Using a Multilevel Static Synchronous Series Compensator.
- 3- Modeling and Analysis of New Structures of UPFC for Dynamic Compensation of Power Systems.

### **Journal Papers:**

- 1- A. Ajami, S.H. Hosseini, S. Khanmohammadi, G.B. Gharehpetian, "Modeling and Analyzing the New FACTS Device, C\_UPFC, for Power System Applications", Elsevier Journal of Simulation Modeling Practice and Theory, 2006.
- 2- A. Ajami, S.H. Hosseini, S. Khanmohammadi, G.B. Gharehpetian, " Modeling and Controlling of C-UPFC for Transient Stability and Power Flow Control", International Journal of Control and System, September 2005.
- 3- A. Ajami, S.H. Hosseini, "Implementation of a Novel Control Strategy for Shunt Active Filter", ECTI Transactions on Electrical Eng., Electronics, and Communications Vol.4, No.1, February 2006.
- 4- A. Ajami, S.H. Hosseini, S. Khanmohammadi, G.B. Gharehpetian, "Application of Fuzzy Controller for Voltage Stability Enhancement of AC Transmission system by STATCOM", International Journal of Control and System, 2005.

5- A. Ajami, S. H. Hosseini, "A Novel Structure of UPQC to Control Power Quality Problems in Electric Power Systems", Journal of Power Engineering Problem, No. 3-4, 2006.

6- A. Ajami, S. H. Hosseini, G.B. Gharehpetian, "Modeling and Controlling of UPFC for Power System Transient Studies", ECTI Transactions on Electrical Eng., Electronics, and Communications Vol.5, No.2, August 2007.

**Conference Papers:**

1- S.H. Hosseini, A. Ajami, "Dynamic Compensation of Power Systems Using a Multilevel Static Synchronous Series Compensator", the 8<sup>th</sup> International Iranian Conference on Electrical Engineering, May 2000.

2-S.H. Hosseini, A. Ajami, M. Tarafdar Haque, "Electric Energy Converters and Their Effects on Power Quality Problem", ICERD-2, April 2002, Kuwait.

3-A. Ajami, S.H. Hosseini,"Power Quality Problem in the Distribution Network of Industrial Cities and Its Improvement Methods" TPE-1, April 2002 Baku, Azerbaijan.

4-S.H. Hosseini, A. Ajami,"Transient Stability Enhancement of AC Transmission System Using STATCOM", TENCON'02, October 2002 Beijing, China.

5-A.Ajami, S. Khanmohammadi, G.B. Gharehpetian," Transient Stability Enhancement of AC Transmission System Using STATCOM with Fuzzy Controller", 17<sup>th</sup> PSC 2002 Tehran, Iran.

6-G. Ahrabeian, A. Ajami," Speed Controller for Induction Motor Based on Fuzzy Field Oriented Control", 2003 German.

7-S.H. Hosseini, A. Ajami, "A Novel Structure of UPQC to Control Power Quality Problems in Electric Power Systems", Science & Engineering Conference 2004, Sana, Yemen.

8- S. H. Hosseini, A. Ajami, "A Novel Control Strategy for Unified Power Flow Controller", NEU CEE 2004, Cyprus.

9-S.H. Hosseini, A. Ajami, "Voltage Regulation and Transient Stability Enhancement of a Radial AC Transmission System Using UPFC", the 31<sup>th</sup> Industrial Electronics Conference, 2004, Korea.

10-M. Sarhangzadeh, S. H. Hosseini, A. Ajami, "Power Quality Improvement in the Tehran's Metro using STATCOM", 19<sup>th</sup> PSC 2004 Tehran, Iran.

11-A. ajami, S. H. Hosseini, "Line Current Balancing Using Unified Power Flow Controller in Electric Power Systems", TENCON'04 Nov. 2004, Chiang Mai, Thailand.

12-A. Ajami, S. H. Hosseini, E. Hamidi, R. Rashidi, "A Simple Control Strategy for Shunt Active Filter and Its Implementation", ECTI-2005 Conference, Pattaya, Thailand.

13-S. H. Hosseini, A. Ajami, "Damping of Power Oscillations Using Center Node Unified Power Flow Controller", ECTI-2005 Conference, Pattaya, Thailand.

14-S.H. Hosseini, M. Sarhangzadeh, A. Ajami, "Improvement of Power Quality in DC Traction Systems Using STATCOM", ICCAS 2005, Korea.

15-S. H. Hosseini, A. Ajami, "Modeling and Controlling of a New FACTS Device (C\_UPFC) for Transmission Line Applications", ICEMS 2005, China.

16- A. Ajami, S. H. Hosseini, "Application of a Fuzzy Controller for Transient Stability Enhancement of AC Transmission System by STATCOM", SICE-ICASE International Joint Conference, Korea, Oct. 2006.

17- A. Ajami, S. H. Hosseini, "Connecting Two Asynchronous Power System Together Using CUPFC With Active and Reactive Power Flow Control", The International Conference on Electrical Engineers, Intelligent Clean Efficient Electricity, Hong Kong, July 2007.

18- A. Ajami and M. Younesi, "Modeling and State Feedback Controller for Current Source Inverter Based STATCOM", International Conference on Control, Automation and Systems 2008, Korea, Oct.

19- M. Ghandchi and A. Ajami, "A SIMPLE AND LOW COST CONTROL STRATEGY FOR MULTILEVEL SHUNT ACTIVE FILTERS", International Conference on Control, Automation and Systems 2008, Korea, Oct.

#### **Technical Works and Reports:**

1- S. H. Hosseini, A. Ajami, "Identification and Analyzing of Effective Parameters in the Power Quality of Salimi Industrial City Power System and Improvement Methods", Electric Power System of Azarbijan Company, Iran, 2003.

2- M. Tarafdar Haque, A. Ajami, Control System Designing of One Phase Active Filter Based on Instantaneous Reactive Power Theory, Azad University of Ahar, Iran, 2004.

3-A. Ajami, "Designing and Making of Shunt Active Filter for Simultaneously Compensation of Harmonics, Reactive Power and Unbalance Currents", East Azarbijan Science and Technology Research Park, Iran, 2005.

4- S. H. Hosseini, A. Ajami, "Investigation of Effective of Tabriz's Metro on Power Quality Parameters of Distribution Network", Electric Power System of Azarbijan Company, Iran, 2007.

5- A. Ajami, M. Gandchi, "Designing Multilevel Inverter for Shunt Active Filter Application", Islamic Azad University of Ahar, Tabriz, Iran, 2007.