

Tuesday 14 February 2017 (۲۶ بهمن ۱۳۹۵)

Time:	8:00 - 9:00	9:00- 10:00	10:00- 11:00	11:00- 12:00	12:00- 13:00	13:00- 14:00	14:00- 15:00	15:00- 16:00	16:00- 17:00	17:00- 18:00
	<i>Registration and Workshops</i>									

Wednesday 15 February 2017 (۲۷ بهمن ۱۳۹۵)

Time:	8:00- 8:30	8:30-10:00	10:00- 10:30	10:30-11:15	11:15-12:00	12:00-13:30	13:30-15:30	15:30- 16:00	16:00-18:00	
Amphitheaters (Kharazmi & Boozjani)	Reg.	Opening Ceremony	Break	Keynote Speech 1	Keynote Speech 2	Lunch		Break		
Hall A (class B11)									Session A1	Session A2
Hall B (class B12)									Session B1	Session B2
Hall C (class B13)									Session C1	Session C2
			Poster 1			Poster 2				

Thursday 16 February 2017 (۲۸ بهمن ۱۳۹۵)

Time:	8:00- 8:30	8:30-10:30	10:30- 11:00	11:00-11:45	11:45-12:45	12:45- 13:30	13:30-15:30	15:30- 16:00	16:00-18:00	
Amphitheaters (Kharazmi & Boozjani)			Break	Keynote Speech 3	Lunch			Break	Panel	Closing Ceremony
Hall A (class B11)		Session A3							Session A4	
Hall B (class B12)		Session B3							Session B4	
Hall C (class B13)		Session C3							Session C4	
		Poster 3	Poster 4							

Orals:

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	13:30-15:30	A (Class B11)	A1
Session Title: Power Converters, Modeling and Control (I)			
Session Chairs: 1. Prof. Jean-Luc Schanen 2. Dr. H. Abootorabi-Zarchi			
Paper ID	Paper Title	Authors	
194	Fuzzy Type-2 Sliding Mode Control of Matrix Converter Using Indirect Space Vector Modulation	Tahereh Behrooz Mehdi Bekrani Mojtaba Heydari	
118	PWM Plus Secondary-Side Phase-Shift Controlled Full-Bridge Three-Port Bidirectional Converter for Application in MVDC Distribution Networks	Mohsen Asgari Moqaddam Mohsen Hamzeh	
256	Adaptive Control Strategy of Four-Leg Active Power Filter With LCL Grid Filter	Sedigheh Sedghi Ali Dastfan Alireza Ahmadyfard Ali Akbarzadeh kalat	
169	Tracking Error Minimization in Multi-Loop Control of UPS Inverters using the Reference Frame Transformation	Reza Razi Mohammad Monfared Alireza Hadizadeh	
43	A High Step Up Flying Capacitor Inverter with the Voltage Balancing Control Method	Amin Ashraf Gandomi Saeid Saeidabadi Seyed Hossein Hosseini	
197	Simple and Efficient Design and Control of the Single Phase PWM Rectifier for UPS Applications	Mohammad Pichan Adib Abrishamfar Ahmad AleAhmad Mehdi Fazeli	

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	16:00-18:00	A (Class B11)	A2
Session Title: Power Converters, Modeling and Control (II)			
Session Chairs: 1. Prof. Sh. Farhangi 2. Dr. F. Tahami			
Paper ID	Paper Title	Authors	
168	Semiconductor Loss Reduction in a Modular Multilevel Converter by Harmonic Injection to the Reference Voltage	Alireza Hadizadeh Masoud Noushak Hossein Iman-eini Shahrokh Farhangi Jean-Luc Schanen	
25	Design of a Constant Current Load Resonant Converter Using an LCLL Tank With Load Regulation Capability Topologically	Alireza Khoshaadati Javad Shokrollahi moghani	
62	An Efficient Topology for Multilevel Inverters: Design Specifications and Modulation Technique	Reza Choupan Daryoush Nazarpour Sajjad Golshannavaz	
81	Extended Boost Trans-Z-Source Inverter	Mehran Moslehi Bajestan Mohammad Ali Shamsinejad	
95	Optimal Design of Medium-Frequency Transformers for Solid-State Transformer Applications	Hamzeh Beiranvand Esmael Rokrok Behrooz Rezaealam Amit Kumar	
213	Optimum Design of Coils in a Dynamic Wireless Electric Vehicle Charger with Misalignment Compensation Capability	Amirreza Poorfakhraei Ghazal Movaghar Farzad Tahami	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	8:30-10:30	A (Class B11)	A3
Session Title: Power Converters, Modeling and Control (III)			
Session Chairs: 1. Dr. F. Tahami 2. Dr. A. Halvaei Niasar			
Paper ID	Paper Title	Authors	
160	A New Single-Stage Transformerless Inverter for Photovoltaic Applications	Farzane Soleimani Ehsan Adib Hossein Farzanehfar	
45	A Novel Transformerless Photovoltaic Grid-Connected Current Source Inverter With Ground Leakage Current Elimination	Saeid Saeidabadi Amin Ashraf Gandomi Seyed Hossein Hosseini	
123	Soft-Switching Flyback Inverter with Lossless Passive Snubber for AC Module Applications	Ehsan Karimi Bavani Milad Heidari Ehsan Adib	
148	Optimal Down Sampling for ADC-Based Real-Time Simulation of Basic Power Electronic Converters	Mohsen Rezayati Mohammad Reza Zolghadri	
63	Impact of Model Accuracy in Design by Optimization Process	Jean-Luc Schanen Mylene Delhommeais Yvan Avenas Gnimdu Dadanema Francois Costa Christian Vollaire	
190	Optimum Design for Series-Series Compensated Inductive Power Transfer Systems	Mahtab Dehghanian Alireza Namadmalan Mehdi Saradzadeh	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	13:30-15:30	A (Class B11)	A4
Session Title: Design and Optimization of Machines and Drives (II)			
Session Chairs: 1. Dr. B. Ganji 2. Dr. D. Arab Khaburi			
Paper ID	Paper Title	Authors	
128	Elimination of Position Sensor in Direct Torque Control of Brushless Trapezoidal Axial Flux Synchronous Motor	Hamed Anisi Hamidreza Eshraghi Davood Arab Khaburi Saeed Heshmatian Saeed Hasan	
133	Modeling and Analysis of DC Excited Linear Synchronous Motor for High-Speed Maglev Application	Ebrahim Abolfazl Vahedi Hamidreza Eshraghi	
140	Analytical Design and Finite Element Analysis of High Speed, Axial-Flux Permanent Magnet Synchronous Motor	Sayed Hossein Edjtahed Seyed Ali Seyedi Seadati Abolfazl Halvaei Niasar Marzieh Ahmadi	
165	Noise Reduction of Switched Reluctance Motors	Omid Naderi Samani Babak Ganji	
79	Cuk and Buck Converters for Energy Transmission and Loss Compensation with Constant Current Control in Capacitive Deionization Systems	Hamed Mehrabian Nejad Babak Farhangi Shahroukh Farhangi Sadegh Vaez-Zadeh	
185	Axial Flux Induction Motor, Design and Evaluation of Steady State Modeling Using Equivalent Circuit	Amin Nobahari Ahmad Darabi Amir Hassannia	

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	13:30-15:30	B (Class B12)	B1
Session Title: DC-DC Converters (I)			
Session Chairs: 1. Prof. Alireza Bakhshai 2. Dr. M.R. Zolghadri			
Paper ID	Paper Title	Authors	
129	A SEPIC based High Step-Up DC-DC Converter Integrating Coupled Inductor for Renewable Energy Applications	Hossein Ardi Ali Ajami Mehran Sabahi	
141	An Improved Structure For Multi-Input High Step-Up DC-DC Converters	Kazem Varesi Amin Ashraf Ghandomi Seyed Hossein Hosseini Mehran Sabahi Ebrahim Babaei	
146	Design of Dual Active Bridge Isolated Bi-directional DC Converter Based on Current Stress Optimization	Farzad Yazdani Mohammadreza Zolghadri	
161	Improved Interleaved High Step-Up Converter with High Efficiency for Renewable Energy Applications	Hossein Shojaeyan Mojtaba Heydari Saeed Hasanzadeh	
233	Analysis and Design Procedure of A Novel High Voltage Gain DC/DC Boost Converter	Amir Farakhor Hossein Ardi Mahdi Abapour	
29	Application of High Output Voltage DC-DC Converters Along with Using Battery to Extract Maximum Power from the Solar Cell	Farzad Mohammadzadeh Shahir Ebrahim Babaei	

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	16:00-18:00	B (Class B12)	B2
Session Title: Power Quality			
Session Chairs: 1. Prof. R. Ghazi 2. Dr. M. Savaghebi			
Paper ID	Paper Title	Authors	
132	Optimum Control Strategy for Shunt Active Filter under Disturbed AC Voltage and Unbalanced Load Conditions In 4-Wire Power System	Hossein Azizi Moghaddam Abolfazl Vahedi Saeed Hasan Ebrahimi	
202	A new Approach for Predictive Control System Design to Improve Power Factor and Reduce Harmonic Current Injection using D-STATCOM	Pourya Sarvaghi Reza Ghazi Hamed Heydari-doostabad	
239	Hybrid Traction Power Quality Compensation System in Electrified Railway for Nominal Rating Reduction of Three-Phase Converter Power Switches	Mohammad Arab ahmadi Mahdi Banejad Ali Dastfan	
147	Model Predictive Control of PV-Based Shunt Active Power Filter in Single Phase Low Voltage Grid Using Conservative Power Theory	Sayed abbas Taher Mohammad hosein Alaae Zahra Dehghani Arani	
188	Posicast-Based Control of a Thyristor Rectifier Equipped with an LCL Filter	Amir Zamani Amir Ghorbani	
137	Single-Phase Multi-Source On-line UPS with Isolated Battery Charger	Ehsan Bagheri Nima Tashakor Ebrahim Farjah Teymoor Ghanbari	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	8:30-10:30	B (Class B12)	B3
Session Title: DC-DC Converters (II)			
Session Chairs: 1. Prof. H. Tabatabaei-Yazdi 2. Dr. Sh. Kaboli			
Paper ID	Paper Title	Authors	
242	Output Characteristics of a High Voltage Phase-Shifted Full-Bridge DC-DC Converter Considering Transformer Parasitic Elements	Mohsen Mortazavi Morteza Aghaei Shahriyar Kaboli	
244	Sliding Mode Control of the Four Quadrant Quasi-Z-Source DC-DC Converter	Soheil Ahmadzadeh Gholamreza Arab Markadeh Navidreza Abjadi	
24	A New Structure for Non-Isolated Boost DC-DC Converter Based on Voltage-Lift Technique	Farzad Mohammadzadeh Shahir Ebrahim Babaei	
70	An Improved Non-Isolated Multiple-Input Buck DC-DC Converter	Kazem Varesi Seyed Hossein Hosseini Ebrahim Babaei Mehran Sabahi Naser Vosoughi	
261	Predictive Control of Multi-Input Switched-Capacitor DC-DC Converter with Reduced Switching Frequency	Mahyar Khosravi Davoud A. Khaburi Saeed Heshmatian	
259	Incremental Conductance Based MPPT Using A High Step-Up Y-Source DC-DC Converter	Soheil Ahmadzadeh Gholamreza Arab Markadeh	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	13:30-15:30	B (Class B12)	B4
Session Title: Adjustable Speed Drives			
Session Chairs: 1. Dr. Gh. Arab Markadeh 2. Dr. A. Siadatan			
Paper ID	Paper Title	Authors	
100	Direct Torque Control of a Wind Energy Conversion System With Permanent Magnet Synchronous Generator and Matrix Converter	Nastaran Fazli Jafar Siabhalaei	
170	Reduction of Capacitor Voltage Ripple in a Modular Multilevel Converter Employed in Adjustable Speed Drive Application	Masoud Noushak Alireza Hadizadeh Hossein Iman-Eini Shahrokh Farhangi David Frey	
4	Analytical Modeling and Simulation of Overexcitation Process in Hysteresis Motor	AmirHossein PirZadeh Abolfazl Halvaei Niasar Sayeed Hossein Edjtahed	
257	Adaptive Input-Output Feedback Linearization Control of Brushless DC Motor with Arbitrary Current Reference using Voltage Source Inverter	Mojtaba Shirvani Boroujeni Gholamreza Arab Markadeh Jafar Soltani	
76	An Experimental Model for Extraction of the Natural Frequencies Influencing on the Acoustic Noise of Synchronous Motors	Mohammadreza Baghyapour Ahmad Darabi Ali Dastfan	
232	Nonlinear Model Predictive Control of Permanent Magnet Linear Synchronous Motor	Loghman Abdi Naghi Rostami Peyman Bagheri Sajjad Tohid	

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	13:30-15:30	C (class B13)	C1
Session Title: Power Electronics in Power System (I)			
Session Chairs: 1. Dr. M. Banejad 2. Dr. A. Siadatan			
Paper ID	Paper Title	Authors	
82	Maximum Power Point Tracking Control Method in High Gain Transformer-Based Inverters for Photovoltaic Application	Amin Ashraf Gandomi Saeid Saeidabadi Mehran Sabahi	
178	Fuzzy Logic Based MPPT for a Wind Energy Conversion System Using Sliding Mode Control	Saeed Heshmatian Ahad Kazemi Mahyar Khosravi Davood Arab Khaburi	
255	High Efficient Interleaved Boost Converter with Novel Switch Adaptive Control in PV systems	Saleh E. Babaa Matthew Armstrong	
195	Reliability Assessment of Single-Phase Grid-Connected PV Microinverters Considering Mission Profile and Uncertainties	Mohammad-Hadi Zare Mostafa Mohamadian Huai Wang Frede Blaabjerg	
235	An Improved Transformerless Grid Connected Photovoltaic Inverter With Reduced Leakage Current and Soft-Switching Technique	Ali Zarein Mohammad Sadegh Ghazizadeh Ali Mosallanejad	
253	Optimization of Grid Connected Bidirectional V2G Charger Based on Multi-objective Algorithm	Majid Aryanezhad	

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	16:00-18:00	C (class B13)	C2
Session Title: Design and Optimization of Machines and Drives (I)			
Session Chairs: 1. Dr. M. N. Hashemnia 2. Dr. D. Arab Khaburi			
Paper ID	Paper Title	Authors	
240	Post-Fault Performance Enhancement of the PMSM Drive by employing the Predictive Torque Control	Vahid Asadzadeh Ali Dastfan Ahmad Darabi	
32	A Modified Quasi Z-Source Converter for Switched Reluctance Motor Drive	Moien Mohamadi Amir Rashidi Sayed Morteza Saghaian-nezhad Mohamad Ebrahimi	
35	Linear Permanent Magnet Generator Concepts With Particular Application to Direct-drive Wave Energy Converters: An overview	Jawad Faiz Alireza Nemat-Saberi	
64	An Adaptive Algorithm for PMBL Motor Design	Omid Safdarzadeh Mohammad Mahdavyfakhr Ebrahim Afjei	
68	A Comprehensive Comparison Between Four Different C-Core Hybrid Reluctance Motors	Moien Masoumi Mojtaba Mirsalim	
134	Analytical Modeling of Single-Sided Wound Secondary Linear Synchronous Motor in High-Speed Maglev Trains	Saeed Hasan Ebrahimi Abolfazl Vahedi Hamidreza Eshraghi	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	8:30-10:30	C (Class B13)	C3
Session Title: Power Electronics in Power System (II)			
Session Chairs: 1. Dr. M. Rivera 2. Prof. M. Tavakoli-Bina			
Paper ID	Paper Title	Authors	
46	A Fast and Cost-Effective Control of a Three-phase Stand-Alone Inverter	Neda Mazloum Mohammad Yaghoobi Omid Keikha Farzad Tahami	
66	A Robust Active Damping Method to Improve the Parallel Operation of Micro-inverters in Islanded Microgrids	Mohammad Mahdavyfakhr Saman Dajjo Tavakoli Omid Safdarzadeh Mohsen Hamzeh	
234	Phase Locked Loop-Free Sliding-Mode-Based Power Control for Grid-Connected Voltage-Sourced Inverters under Unbalanced Network Conditions	Seyed Reza Khayam Hoseini Hadi Givi Ebrahim Farjah Teymoor Ghanbari	
27	Interlinking Converters in Application of Bipolar DC Microgrids	Saman Dajjo Tavakoli Gholamreza Kadhodaie Mohammad Mahdavyfakhr Mohsen Hamzeh Keyhan Sheshyekani	
98	A New Bidirectional Switching Converter Structure for PHEV	Mohammad Jahani AmirHossein Akbari Jafar Miliomfared Javad Shokrollahi Moghani	
212	Reduced Common-Mode Voltage in Z-Source Inverters	Negar Noroozi Mohammad Reza Zolghadri Mokhtar Yaghoobi	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	13:30-15:30	C (Class B13)	C4
Session Title: Sensors and Observers			
Session Chairs: 1. Prof. H. Tabatabaei-Yazdi 2. Dr. J. Ebadi			
Paper ID	Paper Title	Authors	
89	A New Closed-Loop Voltage Model Flux Observer for Sensorless DTC Method	Armaghan AliAskari Alireza Davari	
3	Sensorless Control of Non-Sinusoidal Permanent Magnet Brushless Motor using Selective Torque Harmonic Elimination Method and Sliding Mode Observer	Sayed Hossein Edjtahed Abolfazl Halvaei Niasar Marzieh Ahmadi	
90	Direct Estimation of Stator Flux by a MRAS Observer in Sensorless Application	Bahareh Zarei Alireza Davari	
220	Reducing Output voltage THD of a Three-Phase Inverter with non-linear load Using Disturbance Observer	Shahab Valizade Alavi Farzad Tahami	
215	A Novel Flux Observer and Switching Scheme for LCI-fed Synchronous Motor Drives	Sobhan Mohamadian	

Posters:

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	13:30-15:30	P	P1
Session Chairs: Prof. J. Sadeh			
Paper ID	Paper Title	Authors	
250	Maximum Power Point Tracking of a Variable Speed Wind Turbine With a Coreless AFPM Synchronous Generator using OTC Method	Mahnaz.Ebrahimi Hamid Javadi Ali Daghigh	
243	A Robust Maximum Power Point Tracker with Fully Analog Implementation	Shahriyar Kaboli Amir Hossein Rajaei	
225	Overcoming on Limitation of Electric Spring	Esmail Keykha Masoud Barakati Saeed Tavakoli Yousef.Khayati Mobin.Naderi	
208	Robust Control of a DC-DC Boost Converter: H ₂ and H _∞ Techniques	Qobad.Shafiee Yazdan Batmani Mohammad.Fathi Hassan Bevrani	
149	Application of High Voltage Gain DC-DC Converter in Photovoltaic System with Energy Storage	Farzad Mohammadzadeh Shahir Ebrahim Babaei	
121	A Novel DC-DC Boost Converter Using Capacitor Multiplier for Renewable Energy Applications	Majid Moradzadeh Hamed Shadabi Ebrahim Babaei	
12	Applying an Optimized Switching Strategy to a High Gain Boost Converter for Input Current Ripple Cancellation	Ahmad Reza Naderi Karim Abbaszadeh	
11	DFIG Wind Turbines with Very Sparse and Sparse Matrix Converters to control frequency	Bahman Khaki Mohammad Iman Bahari Ebrahim Afjei	
102	Virtual Flux based Model-Predictive Direct Power Control of Three-Phase Three-Level NPC PWM Rectifier	Alireza Lahooti Eshkevari Mohammad Arasteh	
226	A Single-stage Ballast for HID Lamps with a Buck Chopper Integrated Direct Matrix Converter	Sirous Majdi Mohammad Monfared	

Date:	Time:	Hall:	Session Code:
15 Feb. 2017	16:00-18:00	P	P2
Session Chairs: Dr. A. Karimpour			
Paper ID	Paper Title	Authors	
139	Research on Control of Non-Ideal Permanent Magnet Brushless Motor in View of Torque Ripple Minimization	Sayed Hossein Edjtahed Marziyeh Ahmadi Abolfazl Halvaei Niasar	
252	Four Switches Direct Power Control of BLDC Motor With Trapezoidal Back-EMF	Salman Hajiaghahi Ahmad Salemmia Fateme Motabarani	
182	A Segmented Rotor Hybrid Excited Flux Switching Machine for Electric Vehicle Application	Seyed.Milad.Kazemi Sangdehi Seyed Ehsan Abdollahi Seyed Asghar Gholamian	
150	Indirect Torque Control of SRM by Intelligent Controller with Considering Torque Ripple Reduction	Mohammad Abshari Hossein Hooshmandi safa SeyedMorteza Saghaiannejad	
17	Optimal Design of a Hybrid Excited Doubly Salient Permanent Magnet Generator for Wind Turbine Application	Mohsen Cheraghi Mehran Karimi	
49	Simultaneous Improvement of Distortion of Current and Torque in Induction Motor by Optimization of Linkage Flux Distortion	Payam Farhadi Milad Gheydi Farshid Abdolhahjad Abazar Johari Pireivlatoo	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	8:30-10:30	P	P3
Session Chairs: Dr. M. Oloomi-Baygi			
Paper ID	Paper Title	Authors	
245	New Symmetric Cascaded Multilevel Inverter with Reduced Number of Controlled Devices and Low Blocked Voltage by Switches	Amirhosien Gohari Ali Mosallanejad Ebrahim Afjei	
238	An Improved Model Predictive Control of an Inverter With LC Filter	Hossein Zahedi Abdolhadi Gholamreza Arab Markadeh Samad Taghipoor Boroojeni	
198	A Single-Phase Cascaded Multilevel Inverter Composed of Four-Level Sub-multilevel Cells	Morteza Amadeh Mohammad Monfared Sasan Hashemzadeh	
181	Enhanced Static Ground Power Unit based on Improved Stacked Multicell Converter	Mostafa Abarzadeh	
172	A Filterless Single-Phase AC-AC Converter Based on T-Structure with Shared Ground and Continuous Input Current	Soroush Esmacili Alireza Siadatan Ebrahim Afjei Mohammad Rezaejad	
171	A New Control Method for Improving the Performance of Modular Multilevel Converter	Alireza Hadizadeh Hossein Iman-eini Shahrokh Farhangi Milad Soleimani Jawad Faiz	
164	A New High-Gain Coupled-Inductor SEPIC Converter for a Microgrid System	Sara Hasanpour Alfred Baghranian Hamed Mojjallali	
131	Design of a 400 Hertz Inverter Transformer By Considering Specific Leakage Inductance	Elham Jamal zadeh Ali Dastfan	
126	Two New Transformer-Based Isolated Seven-level Inverters	SaeidSaeidabadi AminAshraf Gandomi Mehran Sabahi	
53	Model-Predictive Direct Power Control of Three-Phase Three-Level NPC PWM Rectifier	Alireza Lahooti Eshkevari Mohammad Arasteh	

Date:	Time:	Hall:	Session Code:
16 Feb. 2017	13:30-15:30	P	P4
Session Chairs: Prof. A. Peiravi			
Paper ID	Paper Title	Authors	
179	Application of Improved Hilbert-Huang and Wavelet Packet Transforms in Broken Rotor Bar Fault Detection	Farzaneh Sabaghian Javad Poshtan	
177	Eccentricity Fault Indices in Large Induction Motors An Overview	Iman Sadeghi Hossein Ehya Jawad Faiz	
199	A Novel Method for Reduction of Coil Weight and Size in Wireless Power Transfer	Morteza Mahdaviyafard Amirreza Poorfakhraei Farzad Tahami	
15	A New Battery Charger for Plug-in Hybrid Electric Vehicle Application using Back to Back Converter in a Utility Connected Micro-grid	Reza Razi Behzad Asaei Mohammad Reza Nikzad	
65	Assessment of Thermal Network Models for Estimating IGBT Junction Temperature of a Buck Converter	Omid Alavi Mohammad Abdollah Abbas Hooshmand Viki	
157	A New Pulsed Power Supply Configuration for Electromagnetic Forming Application	Negar Karimpour Saleh Asgari moghadam Ali Yazdian varjani Mostafa Mohamadian	