



In the name of God
Curriculum Vitae (CV) of Dr. Abbas KETABI



Name: Abbas KETABI, Full Professor
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Education

- Jan. 97 – Dec. 2001** *Ph.D. in Electrical Engineering (Power)*, Sharif University of Technology, Tehran, Iran, and the Institut National Polytechnique de Grenoble (Grenoble Institute of Technology), Grenoble, France.
Thesis Title: “**New Approaches for Bulk Power System Restoration**”.
Thesis grade: ‘Excellent’.
- Sept. 94 - March 96** *M.Sc in Electrical Engineering (Power)*, Sharif University of Technology, Tehran, Iran.
Thesis Title: “ **Reduction of Power System Model for Transient Studies**”.
Thesis grade: 19 out of 20.
- Sept. 90 - Sept. 94** *B.Sc. in Electrical Engineering (Power)*, Sharif University of Technology, Tehran, Iran.
Thesis Title: “ **Design and Manufacture of Power Supply For Mobile X-Ray Equipment**”.
Thesis grade: 19.5 out of 20.
- Sept. 86 - Sept. 90** *Diploma in Mathematics and Physics*, Mahmoodihe High School, Kashan, Iran.
G.P.A.: 18.30 out of 20.

Academic Experience

May.2022-Present	Full Professor, University of Kashan, Kashan, Iran.	<u>UNDERGRADUATE COURSES TAUGHT:</u> <ul style="list-style-type: none"> • Electric Machines I and II and III • Electric Measurements • Electric Circuits I and II • Electronics I • Industrial Electronics • Fundamental of Electrical Engineering • Relay and Protection • Industrial Electronics • Relays and Protection Lab • Electric Machines Lab • Industrial Electronics Lab <u>GRADUATE COURSES TAUGHT:</u> <ul style="list-style-type: none"> • Power Electronics • Advanced Electric Machinery • Reactive Power Control • Power System Transients • <u>Smart Micro Grids</u>
Feb.2011- May.2022	Associate Professor, University of Kashan, Kashan, Iran.	
Jan.2002- Feb.2011	Assistance Professor, University of Kashan, Kashan, Iran.	
May 96 - July 99	Lecturer in Electrical Engineering Dept. at Sharif University of Technology, Tehran, Iran.	
May 96 - July 98	Lecturer in Main Courses of Electrical Engineering, University of Kashan, Kashan, Iran.	

Work Experiences

Oct. 2021-Present	Chancellor, University of Kashan, Kashan, IRAN.
Jul. 2011-Mar. 2014	Chancellor, University of Kashan, Kashan, IRAN.
Jul. 2009-Jul. 2011	Vice Chancellor in Planning and Development Affairs, University of Kashan, Kashan, IRAN.
May 2007-Jul.2009	Head of Faculty Engineering, University of Kashan, Kashan, IRAN.
Jun2004-Sep.2006	Vice Chancellor in Administrative and Financial Affairs, University of Kashan, Kashan, IRAN.
Mar. 2004-Aug.2004	Vice Chancellor in Research Affairs, University of Kashan, Kashan, IRAN.
Aug.2003- Aug.2004	Head of Informatics Centre, University of Kashan, Kashan, IRAN.
Aug. 2002 -Mar.2004	Deputy Director of Iran Transformer Research Institute (ITRI), Tehran, Iran.
Feb. 2001– Oct.2001	Researcher in the Laboratoire d'Electrotechnique de Grenoble (LEG) of the Institut National Polytechnique de Grenoble (INPG), Grenoble, France.
Sept. 99 – July 2000	Researcher in the Niroo Research Institute(NRI), Tehran, Iran
Aug. 2000-Jan. 2001	Researcher in the Niroo Research Institute(NRI), Tehran, Iran
Dec.97 – Sept. 99	Researcher in the Niroo Research Institute(NRI), Tehran, Iran
Oct.94 – Sept. 96	Project of 'Reduction of Power System Transient Model', Ministry of Energy (TAVANIR), Tehran, Iran.
Oct.93 – Sept. 94	Design Engineer in the HELAL-AHMAR Industry Equipment Co. Ltd., Tehran, Iran.

Honors & Awards

- *Outstanding PhD Student, Dec. 2001, Sharif University of Technology, Tehran, Iran.*
- *Distinguished researcher of University of Kashan, 2002, 2009, 2011, 2012, 2022.*
- *Distinguished teacher of University of Kashan, 2009.*
- *Distinguished researcher of province of Isfahan, 2011.*
- *The Best paper award in the 2nd National Electrical Engineering Conference, 2010.*

Research Grant (Funded Research Project)

- *Power System Long –Term Dynamics Simulation, Niroo Research Institute, Ministry of Energy of Iran.*
- *Standing Phase Angle Reduction during Power System Restoration, Sharif University of Technology, Tehran, Iran*
- *Transformer Differential Protection Based on Virtual Third Harmonic Theory, University of Kashan, Kashan, Iran.*
- *Design and Fabrication of Laboratory Prototype of Single Phase Power Active Filter, University of Kashan, Kashan, Iran.*
- *Optimal Location of FACTS Devices in Isfahan Regional Network, Esfahan Regional Electric Company (EREC), Ministry of Energy of Iran.*
- *Scenarios Analysis for Isfahan Regional Network Restoration after total Blackout, Esfahan Regional Electric Company (EREC), Ministry of Energy of Iran.*
- *Design and Fabrication of Laboratory Prototype of Z-Source Inverter For Photovoltaic Grid-Connected, Iran Microelectronics Initiative Council, Vice President for scientific and technological affairs, Iran.*
- *Steady State Modeling and Simulation of FACTS Devices in Power Systems, University of Kashan, Kashan, Iran.*

Professional Activities

- *Manager and Editorial Board of “Energy: Engineering and Management” Journal, University of Kashan.*
- *Member of Institute of Electrical and Electronics Engineers (IEEE), USA.*
- *Member of Scientific Committee of Iranian Conference on Electrical Engineering, 2007, Iran.*
- *Member of Scientific Committee of Transmission and Distribution Transformer’s Standard, 2002-2003, Iran Transformer Research Institute (ITRI), Tehran, Iran.*
- *Member of Committee of Technology Incubator Center, 2004-2011, University of Kashan.*
- *Articles refereed for IEEE Transactions on Power Delivery, International Journal of Electrical Power & Energy Systems - Elsevier, International Transactions on Electrical Energy Systems (ETEP) - Wiley, Electric Power Components and Systems - Taylor & Francis, International Journal of Emerging Electric Power Systems, Applied Soft Computing – Elsevier, Journal of Power Electronics (JPE)-Korea, Energy Conversion and Management- Elsevier, IEEE Transactions on Smart Grid.*
- *Founding Member of Feiz Institute of Higher Education, Kashan, Iran.*
- *Member of Engineering Committee of Iran National Science Foundation (INSF), Sep.2011-present, Vice President for scientific and technological affairs, Iran.*

Publications

Books

	Title	Publisher	Publication year
1	Power Electronics: Elements, Circuits and Application (in Persian)	University of Kashan	1 st Edition: 2008 2 nd Edition:2010
2	Instantaneous Power Theory and Applications to Power Conditioning (Translated into Persian)	University of Kashan	2011
3	Electric Power Systems Simulation Using MATLAB (in Persian)	Morsal Publications & Feiz Institute of Higher Education Publications	1 st Edition:2011 2 nd Edition:2012 2 nd Edition:2014
4	Switching Overvoltages during Restoration: Evaluation and Control Using ANN (in English)	LAP LAMBERT Academic Publishing, Köln, Germany	2012

Journal Papers

[To see the complete list and updated articles, please use my Research GATE link](#)

Authors	Index	Publication year	No	pp	Journal	Title	
A. Ketabi, M.J. Navardi	ISI	2011	2	497-504	Journal of Micro-Electromechanical Systems (IEEE)	Optimization of Variable-Capacitance Micromotor Using Genetic Algorithm	1
A. Ketabi, I.Sadeghkhni, R.Feuillet	ISI	2010	1	1-13	European Transactions on Electrical Power (Wiley)	Using Artificial Neural Network to Analyze Harmonic Overvoltages during Power System Restoration	2
A. Ketabi, M. Naseh	ISI	2012	22	402-411	European Transactions on Electrical Power (Wiley)	Single Phase Transformer Modeling for Inrush Currents Simulation Using Differential Evolution	3
A. Ketabi, A. Alibabae R. Feuillet	ISI	2010	6	622-628	International Journal of Electrical Power & Energy Systems (Elsevier)	Application of the Ant Colony Search Algorithm to Reactive Power Pricing in an Open Electricity Market	4
A. Ketabi, M.J. Navardi	ISI	2010	ID 909240	1-15	Mathematical Problems in Engineering	Optimization Shape of Variable Capacitance Micromotor Using Differential Evolution Algorithm	5
A. Ketabi, R. Feuillet	ISI	2010	ID 906935	1-11	Mathematical Problems in Engineering	Ant Colony Search Algorithm for Optimal Generators Startup during Power System Restoration	6
A. Ketabi, M. Khoshkholgh	ISC	2008	2	27-36	Journal of Iranian Association of Electrical and Electronics Engineers	Power System Analysis for Nonsinusoidal Steady State Studies Based on Wavelet	7
A. Ketabi, M. Khoshkholgh R. Feuillet	ISI	2009	ID 584637	1-18	Mathematical in Problems Engineering	A New Approach to Nonsinusoidal Steady- State Power System Analysis	8
A. Ketabi, I.Sadeghkhni, R.Feuillet	ISI	2010	No.1	1-9	International Review of Electrical Engineering	Overvoltages Study during Three-Energization Phase Transformer Using Artificial Neural Network	9
I.Sadeghkhni, A. Ketabi, R.Feuillet	علمی پژوهشی	2011	2	5-11	International Journal of Computer Applications (IJCA)	Artificial Neural Network based Approach to Analyze Transient Over-voltages during Capacitor Banks Switching	10
I.Sadeghkhni, A. Ketabi, R.Feuillet	ISI	2012	Vol-21, No.7	1-15	Journal of Circuits, Systems, and Computers (World Scientific)	Control Of Shunt Reactor Overvoltages By Controlled Switching During Power System Restoration	11
I.Sadeghkhni, A. Ketabi, R.Feuillet	ISC	2011	Vol-9, No.3	15-23	Majlesi Journal of Electrical Engineering	Artificial Neural Network Based Method to Mitigate Temporary Over-voltages	12
A. Ketabi, S.A. Hosseini	علمی پژوهشی	2008	11	1499-1505	American Applied Science	A New Method for Optimal Harmonic Meter Placement	13
N. Moezi, D. Dideban A. Ketabi,	علمی پژوهشی	2008	3	219-222	American Applied Science	A Novel Integrated SET based Inverter for Nano Power Electronic Applications	14

A. Ketabi, A.M. Ranjbar, R.Feuillet	ISI	2002	12	301-308	European Transaction on Electrical Power (Wiley)	New Approach to Standing Phase Angle Reduction for Power System Restoration	15
A. Ketabi, A.M. Ranjbar, R.Feuillet	ISI علمی پژوهشی	2002	4	328-335	Scientia Iranica, International Journal of Science and Technology	A New Method for Load Steps Calculation during Power System Restoration	16
A. Ketabi, A.M. Ranjbar, R.Feuillet	ISI	2002	4	1121-1127	IEEE Transactions on Power Delivery	Analysis and Control of Temporary Overvoltages for Automated Restoration Planning	17
M.Vakili n, A. Ketabi	علمی ترویجی	۱۳۷۸	۳	۲۷-۲۱	مجله برق	A Method for Reduction of Power System Transient Model	18
A. Ketabi, I.Sadeghkhi, R.Feuillet	ISI	2012	Vol.4	223-233	Engineering Intelligent Systems	Switching Overvoltages Analysis during Shunt Reactor Energization Using ANN	19
A. Ketabi, M.J. Navardi	ISI	2012	Vol.7, no.2	212-220	Journal of Electrical Engineering & Technology(JEET)	Optimization Shape of Variable Capacitance Micromotor Using Seeker Optimization Algorithm	20
A. Ketabi, M.R Sheibani, S.M Nosratabadi	ISI	2012	43	141-149	International Journal of Electrical Power & Energy Systems (Elsevier)	Power Quality Meters Placement Using Seeker Optimization Algorithm for Harmonic State Estimation	21
A. Ketabi, S.M Nosratabadi M.R Sheibani,	ISI	2012	ID 50189 3	1-14	Mathematical Problems in Engineering	Optimal PMU Placement with Uncertainty Using Pareto Method	22
I.Sadeghkhi, A. Ketabi, R.Feuillet	Scopus	2012	Vol.1 3, Issue 3	1-22	International Journal of Emerging Electric Power Systems	Study of Transformer Switching Overvoltages during Power System Restoration Using Delta-Bar-Delta and Directed Random Search Algorithms	23
I.Sadeghkhi, A. Ketabi, R.Feuillet		2012	vol. 9, no. 2	217-229	Serbian Journal of Electrical Engineering	Delta-Bar-Delta and Directed Random Search Algorithms to Study Capacitor Banks Switching Overvoltages	24
I.Sadeghkhi, A. Ketabi, R.Feuillet		2012	vol. 9, no. 2	171-187	Serbian Journal of Electrical Engineering	An Approach to Evaluate Switching Overvoltages during Power System Restoration	25
A. Ketabi, I.Sadeghkhi, R.Feuillet	ISI	2013	vol. 95, no. 3	241-253	Electrical Engineering (Springer)	Network Switching and Voltage Evaluation During Power System Restoration	26
I.Sadeghkhi, A. Ketabi, R.Feuillet	Scopus	2012	vol. 2012, ID 65489 5	1-10	<i>Computational Intelligence and Neuroscience</i>	Radial Basis Function Neural Network Application to Power System Restoration Studies	27
I.Sadeghkhi, A. Ketabi, R.Feuillet	ISI	2012	vol. 2012, ID 64730 5	1-14	Mathematical Problems in Engineering	Radial Basis Function Neural Network Application to Measurement and Control of Shunt Reactor Overvoltages based on Analytical Rules	28
I.Sadeghkhi, A. Ketabi,	ISI	2012	12a	269-274	PRZ ELEKTROTECHNI CZN <i>(Electrical Review)</i>	Mitigation of Shunt Reactor Overvoltages Using Delta-Bar-Delta and Directed Random Search Algorithms	29

A. Ketabi, M. Farshadnia, M. Malekpour R.Feuillet	ISI	2013	47	31-40	International Journal of Electrical Power & Energy Systems (Elsevier)	A New Control Strategy for Active Power Line Conditioner (APLC) Using Adaptive Notch Filter	30
I.Sadeghkhnii., A. Ketabi, R.Feuillet	Scopus	2013	Vol.1 4, Issue 3	219- 230	International Journal of Emerging Electric Power Systems	The Study of Switching Overvoltages under Power System Restoration Scenario Using Extended Delta-Bar-Delta Algorithm	31
I.Sadeghkhnii., A. Ketabi, R.Feuillet	Scopus	2013	Vol.1 4, Issue 3	231- 238	International Journal of Emerging Electric Power Systems	Investigation of Transmission Line Models for Switching Overvoltages Studies	32
A. Ketabi, M.J. Navardi	ISI	2014	Vol 78	237- 244	Energy Conversion and Management (Elsevier)	Efficiency Improvement and Torque Ripple Minimization of Switched Reluctance Motor Using FEM and Seeker Optimization Algorithm	33
A. Ketabi, M.Hajiakbari	ISI	2014	Vol. 62		International Journal of Electrical Power & Energy Systems (Elsevier)	An underfrequency load shedding scheme for islanded microgrids	34
I.Sadeghkhnii, A. Ketabi, R.Feuillet	ISI	2014	vol. 10, no.5		International journal of innovative computing, information & control: IJICIC	An Intelligent Switching Overvoltages Estimator for Power System Restoration Using Artificial Neural Network	35
A. Ketabi, M.Hajiakbari	ISI	2015	Vol. 6, no.1,	pp.82 - 91	<i>IEEE Transactions on Smart Grid</i>	An Underfrequency Load Shedding Scheme for Hybrid and Multiarea Power Systems	36
A. Yazdkhasti Abbas Ketabi I. Sadeghkhanii	ISI	۲۰۱۴	DOI: 10.10 02/et ep.19 71		<i>European Transactions on Electrical Power</i>	One-Cycle Control Application to Wind Turbine Power Control	37
Mohammad Kebriaci, Abbas Ketabi, Abolfazl Halvaei Niasar	Scopus	۲۰۱۵	7(1):	1686- 1692	Biological Forum – An International Journal	Pulsed Corona Discharge, a New and Effective Technique for Water and Air Treatment	38
I.Sadeghkhnii, A. Ketabi, R.Feuillet	Scopus	2013	Vol 17, No 4		Engineering Journal	Extended Delta-Bar-Delta Algorithm Application to Evaluate Transmission Lines Overvoltages	39
I.Sadeghkhnii, A. Ketabi, R.Feuillet	Scopus	2013	5(1)	55-66	International Journal on Electrical Engineering and Informatics.	Delta-Bar-Delta and Directed Random Search Algorithms Application to Reduce Transformer Switching Overvoltages	40
A. Ketabi, M.Hajiakbari	Scopus	۲۰۱۵	2 (2015) pp. 391- 405		Journal of Electrical Systems and Information Technology (Elsevier)	An Adaptive Set-point Modulation Assisted PI Controller for LFC in Multi- area Power Systems	41

A. Ketabi, M. Soltanfar	ISC	2016	Vol. 6(20), Apr. 2016,	PP. 2856-2871	(IJMEC)	A Control Method for Autonomous Microgrid in High Droop Gains	42
A. Ketabi, A.Yadghar, M.J. Navardi	ISI	2016	Vol. 45,	195-207	Progress In Electromagnetics Research M	Torque and Ripple Improving of a SR Motor Using Robust Particle Swarm Optimization of Drive Current and Dimension	43
I. Sadeghkhani; M. E. Hamedani Golshan; A. Mehrizi-Sani; J. M. Guerrero; A. Ketabi	ISI	2016	Accepted	doi: 10.1109/TSG.2016.2606519	IEEE Transactions on Smart Grid	Transient Monitoring Function-Based Fault Detection for Inverter-Interfaced Microgrids	44
Mohammad Kebriaei, Abbas Ketabi, Abolfazl Halvaei Niasar	ISI	2017	13(3)	517-527	Journal of Electrical Systems	A New Resonant Capacitor Diode Voltage Multiplier Topology for Pulsed Power Application	45
M.R Sheibani, A. Ketabi, S. M Nosratabadi	ISC	2018	Vol. 1, No. 2	81-89	International Journal of Industrial Electronics, Control and Optimization	Optimal Power Quality Meters Placement with Consideration of Single Line and Meter Loss Contingencies	46
A. Ketabi, A. Karimizadeh, M.Shahidehpour	ISI	2019	104	772–783	International Journal of Electrical Power & Energy Systems (Elsevier)	Optimal generation units start-up sequence during restoration of power system considering network reliability using bi-level optimization	47
S. Rajamand, A. Ketabi, A. Zahedi	ISI	2018	28	116-127	European Power Electronics Journal (Taylor & Francis)	A new LVRT strategy for DGs with different droop gains in islanded microgrid with various loads	48
H. Fathollahnejad, D. Dideban, A. Ketabi, M. Vali, A. Bayani, H.Heidari	ISI	2018	80	18-23	Materials Science in Semiconductor Processing (Elsevier)	Tuning the analog and digital performance of Germanene nanoribbon field effect transistors with engineering the width and geometry of source, channel and drain region in the ballistic regime	49
Mohammad Kebriaei, Abbas Ketabi, Abolfazl Halvaei Niasar	ISI	2017	24	2234-2240	IEEE Transactions on Dielectrics and Electrical Insulation	Modular Hybrid Solid State Pulsed Power Generator	50
A. Ketabi, S.Rajamand, M.Shahidehpour	ISI	2017	11	2438-2447	IET Generation, Transmission & Distribution	Power sharing in parallel inverters with different types of loads	51
A. Ketabi, S.Rajamand, M.Shahidehpour	ISC	2017	5	27-41	Energy Equip. Sys.	Accurate power sharing for parallel DGs in microgrid with various-type loads	52
Sh. Sadraeifar, H. Askarian Abyaneh, A. Ketabi, & S.H.H. Sadeghi	ISI	2017	63	757-768	IETE Journal of Research	A New Dynamic Synchrophasor Estimator for Digital Relaying	53
M. Kebriaei, A. Halvaei, A. Ketabi	ISI+ISC	2018	27	1506-1514	Scientia Iranica	Combination of Marx and Capacitor Diode Voltage Multiplier for Pulsed Power Applications	54

M. Rahideh A. Halvaei, A. Ketabi, I. zamani	ISC	2020	52	231-242	AUT Journal of Electrical Engineering	Linear Quadratic Integral optimal control of photovoltaic systems	55
J. Faraji, H. Hashemi, A. Ketabi	JCR, SCOPUS	2020	8	3942-3960	Energy Science and Engineering	Optimal probabilistic scenario-based operation and scheduling of prosumer microgrids considering uncertainties of renewable energy sources	56
R. Mirzadarani, H. R. Mohammadi, A. Ketabi, S. R. Motahari, A. Ghorbani	JCR, SCOPUS	2020	13	3830-3839	IET POWER ELECTRON	Analytical Estimation of Parasitic Capacitances in High-Voltage Switching Transformers	57
M. Aslani, H. Hashemi, A. Ketabi	JCR, SCOPUS	2021	13	1-30	Sustainability (basel)	Reliability Evaluation of Smart Microgrids Considering Cyber Failures and Disturbances under Various Cyber Network Topologies and Distributed Generation's Scenarios	58
J. Faraji, H. Hashemi, A. Ketabi	JCR, SCOPUS	2021	65	1-17	Sustainable Cities and Society	Stochastic operation and scheduling of energy hub considering renewable energy sources' uncertainty and N-1 contingency	59
M. Mohammadzadeh, A. Ketabi	ISC	2021	6	713-725	Journal of Solar Energy Research (JSER)	Single and Three Phases Sensitive Load Compensation by Electric Spring Using Proportional-Resonant and Repetitive Controllers	60
S. A. Sadat, J. Faraji, M. Nazifard, A. Ketabi	JCR, SCOPUS	2021	47	1-11	Sustainable Energy Technologies and Assessments	The experimental analysis of dust deposition effect on solar photovoltaic panels in Iran's desert environment	61
M. Rahideh, A. Ketabi, A. Halvaei	JCR, SCOPUS	2020	30	1-16	International Transactions on Electrical Energy Systems (ETEP)	State-dependent Riccati equation and fuzzy sliding mode control for maximum power point tracking in partially shaded conditions in PV systems	62

M. R. Sheibani, A. Ketabi, S. M. Nosratabadi	ISC	2018	1	81-89	International Journal of Industrial Electronics, Control and Optimization (IECO)	Optimal Power Quality Meters Placement with Consideration of Single Line and Meter Loss Contingencies	63
H. Rahimi, A. Ketabi H. R. Mohammadi M. Rahimi	ISC	2019	10	51-61	Computational Intelligence in Electrical Engineering	Using VBR model in fixed speed wind turbines and suggesting a new method for improving LVRT capability	64
J. Faraji A. Ketabi H. Hashemi M. Shafie-Khah J.P. S. Catalão	JCR, SCOPUS	2020	8	83561-83582	IEEE Access	Optimal Day-Ahead Scheduling and Operation of the Prosumer by Considering Corrective Actions Based on Very Short-Term Load Forecasting	65
J. Faraji A. Ketabi H. Hashemi M. Shafie-Khah J.P. S. Catalão	JCR, SCOPUS	2020	8	157284-157305	IEEE Access	Optimal Day-Ahead Self-Scheduling and Operation of Prosumer Microgrids Using Hybrid Machine Learning-Based Weather and Load Forecasting	66
J. Faraji A. Ketabi H. Hashemi	JCR, SCOPUS	2020	31	1-18	Journal of Energy Storage	Optimization of the scheduling and operation of prosumers considering the loss of life costs of battery storage systems	67
S. A. Sadat, J. Faraji, M. Babaei, A. Ketabi	JCR, SCOPUS	2020	1	1-23	Energy Science and Engineering	Techno-economic comparative study of hybrid microgrids in eight climate zones of Iran	68
J. Faraji H. Hashemi A. Ketabi	JCR, SCOPUS	2020	42	1-19	Sustainable Energy Technologies and Assessments	Multi-year load growth-based optimal planning of grid-connected microgrid considering long-term load demand forecasting: A case study of Tehran, Iran	69

M.Rahideh, A. Ketabi, A.Halvaei	ISC	2019	3	115-124	International Journal of Industrial Electronics, Control and Optimization	Maximum Power Point Tracking Using State-dependent Riccati Equation based Model Reference Adaptive Control	70
S.M. Nobakhti A.Ketabi M.Shafie-Khah	JCR,S COPU S	2021	14	1-24	ENERGIES	A New Impedance-Based Main and Backup Protection Scheme for Active Distribution Lines in AC Microgrids	71
M. Biglarahmadi; A . Ketabi; H. R. Baghaee; J.M. Guerrero	JCR,S COPU S	2021	Early Acce ss	1-12	IEEE SYST J	Integrated Nonlinear Hierarchical Control and Management of Hybrid AC/DC Microgrids	72
V.Soori A. Ketabi A. Halvaei	ISC	2021	6	898-913	Journal of Solar Energy Research (JSER)	Control of Three-Phase Buck- Type Dynamic Capacitor Using the Model Predictive Control Method for Dynamic Compensation of the Reactive Power and Load Current Harmonics	73
S. Safaei A.Ketabi M.Farshadnia M.Shahidepour	JCR,S COPU S	2021	Early Acce ss	1-17	Energy Science and Engineering	A multi-port MMC topology with reduced capacitor size for use in grid-connected PV systems	74
M.Soltanfar A. Ketabi H. Radmanesh	ISC	2021	Acce pted	1-15	Energy Equipment and Systems	A New Unified Saturated Core Fault Current Limiter for AC/DC Microgrid Protection	75
A. Ataee H.Hashemi A. Ketabi	ISI	2022	5	205-213	International Journal of Industrial Electronics Control and Optimization	Optimized Microgrid Protection Considering Different Topologies Based on N-1 Contingency by Dual Setting Directional Overcurrent Relays	76
Mehrdad Aslani, Jamal Faraji, Hamed Hashemi- Dezaki, Abbas Ketabi	ISI	2022	315	119032	Applied Energy (Elsevier)	A novel clustering-based method for reliability assessment of cyber-physical microgrids considering cyber interdependencies and information transmission errors	77
Mehrdad Aslani, Mehdi Mashayekhib , Hamed Hashemi- Dezaki, Abbas Ketabi	ISI	2022	321	119344	Applied Energy (Elsevier)	Robust optimal operation of energy hub incorporating integrated thermal and electrical demand response programs under various electric vehicle charging modes	78

A. Ataee H.Hashemi A. Ketabi	ISI	2023	214	108879	<i>Electric Power Systems Research</i> (Elsevier)	Optimized adaptive protection coordination of microgrids by dual-setting directional overcurrent relays considering different topologies based on limited independent relays' setting groups	79
A. Ataee H.Hashemi A. Ketabi	ISI	2022	16	5084-5116	IET Generation, Transmission and Distribution	Optimal adaptive protection of smart grids using high-set relays and smart selection of relay tripping characteristics considering different network configurations and operation modes	80
Mohsen Dehshiri Abbas Ketabi	ISI	2022	-	203	<i>Energy Science and Engineering</i> (Wiley)	A coreless axial flux-switching generator for micro-wind turbine application	81
Mehrdad Aslani Hamed Hashemi-Dezaki Abbas Ketabi	ISI	2022	13	2816-2839	<i>Renewable Power Generation, IET</i>	Analytical reliability evaluation method of smart micro-grids considering the cyber failures and information transmission system faults	82
Masoud Hajiakbari Mohammad Esmail Hamedani Golshan Jose R. Marti Abbas Ketabi	ISI	2022	14	27-38	<i>IEEE Transactions on Sustainable Energy</i>	Determining the Required Frequency Control Reserve and Capacity and Location of Synchronous and Virtual Inertial Resources	83

Conference Papers

	Authors	Title	Conference	Publication year
1	M.Rezvani A. Ketabi	DG sitting and sizing in power system using DE Algorithm	Proceedings of 20 th Iranian Conference on Electrical Engineering	2012
2	Sadeghkhanian, I. Ketabi, A.	A New Method for Harmonic overvoltages reduction during transformer energization by controlled switching	Proceedings of 26 th International Power System Conference, PSC'2011	2011
3	A .ketabi, A.Yazdekhesti	DFIG wind turbines control by OCC method	Proceedings of 26 th International Power System Conference, PSC'2011	2011
4	A. Ketabi, M. Naseh	Transformer Hysteresis Model Parameters Determination Using Search Optimization Algorithm	Proceedings of 18 th Iranian Conference on Electrical Engineering	2010
5	A. Ketabi, M. Naseh	Three Phase Active Power Filter Control using One Cycle Control Method	Proceedings of 18 th Iranian Conference on Electrical Engineering	2010
6	A. Ketabi, M. Naseh	Single Phase Transformer Modeling for Inrush Currents Simulation Using Search Group Algorithm	Proceedings of 18 th Iranian Conference on Electrical Engineering	2010
7	A. Ketabi, M..R Sheibani, S.M Nosratabadi	Power Quality Meters Placement Using DE Optimization Algorithm for Harmonic State Estimation	Proceedings of 25 th International Power System Conference, PSC'2010	2010

8	Ketabi, A Sadeghkhan, I. .	Harmonic Overvoltages Analysis of Three Phase Transformer during Power System Restoration	Proceedings of 25 th International Power System Conference, PSC'2010	2010
9	Ketabi, A Sadeghkhan, I. .	Efficiency Optimization of Three Phase Induction Machines based on Connection change of Stator Windings	Proceedings of 2 th Iranian National Electrical Engineering Conference	2010
10	Ketabi, A Shahani, M. .	Optimal Generators Startup during Power System Restoration Using PSO Algorithm	Proceedings of 24 th International Power System Conference, PSC'2009	2009
11	A. Ketabi, M. Naseh	Transformer Hysteresis Model Parameters Determination Using Intelligent Optimization Algorithm	Proceedings of 24 th International Power System Conference, PSC'2009	2009
12	A. Ketabi, M. Khoshkholgh	Analysis of Nonsinusoidal Steady State Studies of Power System Based on Wavelet	Proceedings of 17 th Iranian Conference on Electrical Engineering	2009
13	S.A. Hosseini , A. Ketabi,	Identification of harmonic sources in Distribution systems using singular value decomposition	Proceedings of 23 th International Power System Conference, PSC'2008	2008
14	A. Ketabi, A. Alibabae	Reactive Power Pricing By the Ant Colony Search Algorithm	Proceedings of 15 th Iranian conference on Electrical Engineering	2007
15	A. Ketabi, S.A. Hosseini	A New Method for Optimal Harmonic Meter Placement Using Genetic Algorithm	Proceedings of 22 th International Power System Conference, PSC'2007	2007
16	Sadeghkhan, I. Ketabi, A. Feuillet, R.	Estimation of Temporary Overvoltages during Power System Restoration using Artificial Neural Network	15 th International Conference on Intelligent System Applications to Power Systems, 2009, ISAP '09.	2009
17	Sadeghkhan, I. Ketabi, A. Feuillet, R.	New Approach to Harmonic Overvoltages Reduction during Transformer Energization via Controlled Switching	15 th International Conference on Intelligent System Applications to Power Systems, 2009, ISAP '09.	2009
18	Ketabi, A. Nosratabadi, S.M Sheibani, M.R	Optimal PMU Placement Based on Mean Square Error Using Differential Evolution Algorithm	Power Quality Conference (PQC)	2010
19	Ketabi, A. Hadidi , A.R.	New method for inrush current mitigation using series voltage-source PWM converter for three phase transformer	Power Electronics, Drive Systems and Technologies Conference (PEDSTC)	2011
20	A. Ketabi, A.M. Ranjbar, R.Feuillet	Development of an Expert System for Power System Restoration Using Finite State Machine Concepts	Proceedings of 15 th International Power System Conference, PSC'2000	2000
21	A. Ketabi, A.M. Ranjbar, R.Feuillet	An Approach for Optimal Units Start-up during Bulk Power System Restoration	Proceedings of LESCOPE'01 (2001 Large Engineering Systems Conference on Power Engineering)	2001
22	A. Ketabi, A.M. Ranjbar, R.Feuillet	Application of Finite State Machines Concepts for Scheduling of Generic Restoration Actions.	Proceedings of 35 th University Power Engineering Conference (UPEC'2000)	2000
23	A. Ketabi, A.M. Ranjbar, R.Feuillet	Long –Term Dynamics Simulation for Power System Restoration	Proceedings of 14 th International Power System Conference, PSC'99	1999
24	A. Ketabi, A.M. Ranjbar, R.Feuillet	A new method for dynamic calculation of load steps during power system restoration	Proceedings of IEEE/CCECE,	2000
25	A. Ketabi, A.M. Ranjbar, R.Feuillet	Long –Term Dynamics Evaluation in Restoring Customer Loads	Proceedings of the American Power Conference (APC'00), 62 st Annual Meeting	2000
26	A. Ketabi, A.M. Ranjbar,	New Approach to Standing Phase Angle Reduction for Power System Restoration	Proceedings of IEEE Budapest Power Tech'99 conference,	1999
27	A. Ketabi, N. Sadati	Using Neural Network for Robust Control of Induction Motors	Proceedings of 7 th Iranian conference on Electrical Engineering	1999
28	A.Ketabi	Single port Power System Reduction for	Proceedings of 10 th International	1995

	M.Vakilian	Transient Studies	Power System Conference, PSC'95	
29	A.Ketabi M.Vakilian	A Method for Reduction of Power System Transient Model	Proceedings of 1999 IEEE/PES Transmission and Distribution Conference,	1999
30	Aliabadi, S.F. ; Mohammadi, H. ; Ketabi, A. ; Motiee Rad, S.M.	A New Method for Load Sharing Among Distributed Generation Resources	Power Electronics, Drive Systems and Technologies Conference (PEDSTC)	2013

Masters Theses Supervision

	THESIS TITLE	STUDENT	YEAR
1	<i>Optimal Power Flow for Deregulated and Distributed Power System using Ant Colony Algorithm</i>	Ahmad, Alibabae	2007
2	<i>Steady State Modeling and Simulation of Power System by Wavelet</i>	Mohammad, Khoshkholgh	2007
3	<i>Identification of harmonic sources in Distribution systems</i>	Seyyed Ahmad, Hoseini	2007
4	<i>Integrated SET based Inverter for Nano Power Electronic Applications</i>	Neghin, Moezzi	2008
5	<i>Using Neural Network for Harmonic Resonant Overvoltages Analysis during Power System Restoration</i>	Iman, Sadeghkhan	2009
6	<i>Modeling and Simulation of Variable Capacitance Micromotor by FEM</i>	Mohammad Javad, Navardi	2009
7	<i>Magnetizing and Single Phase Transformer Modeling for Inrush Currents Simulation Using Intelligent Methods</i>	Mojtaba, Naseh	2010
8	<i>Using PSO Algorithm for Optimal Units Start-Up during Bulk Power System Restoration</i>	Masih, Shahani	2010
9	<i>A New Method to Discriminate Between Inrush Current and Internal Fault in Power Transformers</i>	Hadi, Shafiei	2010
10	<i>Power Systems Restoration With Dispersed Generation</i>	Mohsen, Kelantarizadeh	2010
11	<i>Long-Term Dynamic Simulation during Power System Restoration</i>	Majid, Majid, Mahmoodvand	2009
12	<i>Power Quality Meters Placement for Harmonic State Estimation Using Seeker Optimization Algorithm</i>	Mohammad Reza, Sheibani	2011
13	<i>Optimal PMU Placement for Power System State Estimation</i>	Seyyed Mostafa, Nosratabadi	2011
14	<i>Active and reactive power control of DFIG wind turbines by OCC method</i>	Ali, Yadkhasti	2011
15	<i>MPPT of Wind PMSG Turbine Using Fuzzy Logic Controller</i>	Masod, Moradi	2011
16	<i>Design and Fabrication of Laboratory Prototype of Three Level Inverter Using SHM-PWM Method</i>	Mohammad Ali, Saryar	2011
17	<i>Voltage Dip Source Location in Power Systems</i>	Zeinab, Massah	2011
18	<i>Optimal Passive Harmonic Filter Siting and Sizing in Distribution Network</i>	Ahmad, Moetamedi	2011
19	<i>Reactive Power Programming for Power Systems Using DE Algorithm</i>	Seyyed Jalil, Rezazadeh	2011
20	<i>Optimal Coordination of Overcurrent Relays in Industrial Power</i>	Samaneh, Kivanipour	2011

	<i>System using Differential Evolution (DE) Optimization method</i>		
21	<i>Optimization of Capacity and Operation for CHP System Using Intelligence Algorithms</i>	Mahshid, Karim	2012
22	<i>Load Sharing in Parallel Inverter for Nonlinear Loads</i>	Saber, Falahati	2012
23	<i>Inrush Current Suppressor for Transformers Using a Series-Connected Voltage Source PWM Converter</i>	Ali Reza, Hadidi	2011
24	<i>MPPT for Grid Connected Photovoltaic by OCC Method</i>	Tabatabaee	2012
25	<i>Multiple Propose Passive Filter Design for Power Quality Improvement for Nonlinear and Unbalanced Loads</i>	Rezvani	2012
26	<i>Load Sharing in Parallel Inverter for Unbalanced Loads</i>	Mehdi, Zeraati	2012
27	<i>Optimum DG Sizing and Sitting using Pareto-DE Algorithm</i>	Majid, rezvani	2011
28	<i>Power Control Design of Composite Energy Storage System in a Microgrid with DG</i>	Saeed, Ghaffari Moghaddam	2013
29	<i>Conceptual Design, Modeling and Simulation of SMES in Power Systems</i>	Seyyed Masood, Motieerad	2013
30	<i>Underfrequency load shedding to prevent power system blackout</i>	Masood, Hajakbari	2013
31	<i>A New Method To Protect Microgrid With Distributed Generation Source</i>	Mojtaba, Molavi	2013
32	<i>Intelligent Control System Design of micro-grids with distributed generation resources</i>	Gholamhosein, Namazifard	2013