



S.Z. Moussavi

Associate Professor



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Education

PhD in Electrical Engineering, Brno University of Technology, Brno, Czech Republic.

M.Sc Czech University of Technology, Prague, Czech Republic

Academic Honors

-Exemplary scholar at national level

-Over four decades experiment in engineering teaching, Technical and Vocational education

-Seven executive letters of appreciation, ministerial level for outstanding conducting as rector of the university(SRTTU) and head of ITC in Karaj.

-Two annual awards as author of the book.

-Four executive letters of appreciation from SRTTU rectors

-Letter of acknowledgment from JICA, Japan Iran branch, due to superb technical scientific and technical fruitful interaction

Languages

Persian(Native)

Czech(Perfect)

English(Excellent)

French(Good)

Slovak(Very Good)

Appointments

2019 - present: Head of the Measurement and Control Engineering Department

2016 - present: Associate Professor, Faculty of Electrical Engineering, Department of Measurement Control

2004 - 2016: Assistant Professor, Faculty of Electrical Engineering, Department of Power, Head of Post Graduate Studies, Electrical Power Engineering

2002 - 2004: Head of Instructors Training Center(ITC)

2000 - 2002: Dean of Electrical Engineering Faculty, Director of postgraduate studies, SRTTU

1996 - 2000: Rector(President) of the University(SRTTU)

1994 - 1996: Vice President for academic affairs(Lavizan Collage of Technology), Vice President for research affairs, Faculty of Technical Teacher Training

1990 - 1994: Lecturer, Head of in Service Teacher Training

Research Interests

1- Control Engineering Applications in Electrical Power Engineering

2- Digital Signal Processing in Control Engineering

3- Electromagnetic Application for Sensors Design

Teaching Experience

1- Engineering Mathematics

2- Electrical Circuits

3- Electrical Measurement Theory

4- Electromagnetic

5- Electrical Machines

6- Linear Control Systems

7- Digital Control System

8- Modern Control Engineering

9- Multi-variable Control

10- Research Methods in Engineering

Work in Progress

1- Systems Identification at Industrial Control Engineering Lab

2- Load Frequency Control of Multi-Area Power Systems

Publications

- 2020 A Novel Technique for Load Frequency Control of Multi-Area Power Systems. A Dokht Shakibjoo, M Moradzadeh, SZ Moussavi, L Vandeveldel Energies 13 (9), 2125
- 2019 Online adaptive type-2 fuzzy logic control for load frequency of multi-area power system A Dokht Shakibjoo, M Moradzadeh, SZ Moussavi, H Afrakhte Journal of Intelligent and Fuzzy Systems 37 (1), 1033-1042
- 2019 Distributed Resilient Adaptive Control of Islanded Microgrids Under Sensor/Actuator Faults NM Dehkordi, SZ Moussavi IEEE Transactions on Smart Grid /2019
- 2018 Design and Construction of Monocopter and its Nonlinear Control Using Photo Diode Array A Safaee, SZ Moussavi, MB Menhaj U. Porto Journal of Engineering 4 (2), 34-41
- 2017 Partial Discharge Diagnosis of Ceramic Pin Insulators Considering Cost-worth Analysis Case Study in a Medium Voltage Feeder. IEEE TRANSACTIONS ON DIELECTRICS AND ELECTRICAL INSULATION. SZ Moussavi, J Mahmoodi, P Naderi /2017
- 2017 Partial discharge diagnosis of ceramic pin insulators case study in a medium voltage feeder.DOI: 10.1109/EPDC.2017.8012743 Conference: 2017 Conference on Electrical Power Distribution Networks Conference (EPDC) ConferenceConference on Electrical Power Distribution Networks Javad Mahmoudi, SZ Moussavi, Hamid Sharifian
- 2015 An experimental procedure for design and construction of monocopter and its control using optical and GPS-aided AHRS sensors A Safaee, MS Mehrabani, MB Menhaj, V Mousavi, SZ Moussavi
- 2014 Dynamic Analysis of Rotor Speed and Electrical Torque of Brushless Doubly Fed Induction Generator (BDFIG) Under Symmetrical and Unsymmetrical Faults Pages 148-158 Javad Mahmoudi, Seyed Zeinolabedin Moussavi and Esmail Mahmoudi DOI: <http://dx.doi.org/10.6000/1929-6002.2014.03.03.8> Published: 29 August 2014
- 2014 Dynamic Analysis of Rotor Speed and Electrical Torque of Brushless Doubly Fed Induction Generator (BDFIG) Under Symmetrical and Unsymmetrical Faults J Mahmoudi, SZ Moussavi, E Mahmoudi Journal of Technology Innovations in Renewable Energy 3 (3), 148-158
- 2014 Construction and control of monocopter using MEMS AHRS A Safaee, SZ Moussavi, MS Mehrabani, MB Menhaj, E Ghobadi 11th IEEE International Conference on Control and Automation (ICCA), 219-224
- 2013 M. Esmaili, D. Ataee, S. Z. Moussavi, Hybrid Spectral Gradient Method for the Large Scale Unconstrained Minimization Problem, The 44th Iranian Mathematics Conference, Ferdowsi University of Mashad, Iran, 27-30 August 2013
- 2013 S. Z. Moussavi, M. Alasvandi Sh Javadi " A Novel Combination PID Strategy of Control for Independent Excited DC Motor. Advance in Power and Energy Systems 2013
- 2013 S. R. Ehteram, B. Afkham, S. Z. Moussavi, "Simple Classification of Mathematical Simulated Defects of Power Plants Pipelines.e-Journal of Non-destructive Testing Vol 18, No 5, May 2013

- 2013 H.R. Torkashvand, P. Amiri, S. Z. Moussavi “, A new Method for Quick and Easy Synchronization of CHP Resources with an EPS. International Review of Automatic Control, Vol 6, No 4 July 2013.
- 2013 S.Z.Moussavi, FazlolahRastegarKashkooli “Small signal stability assessment of power systems with large scale wind farms” The Arabian Journal for Science and Engineering, Volume 3, Number 6 2013
- 2013 S.Z.Moussavi, Safaee “Robust Power System Stabilizer Design Using a Hybrid of ANN and ICA” Journal of Basic and Applied Scientific Research 2013
- 2012 S.Z.Moussavi, P. Amiri, S. A. Hoseini “Controller Design for Synchronizing Distributed Generation Systems with PLL” IJEAT October 2012
- 2012 PID stabilization of linear neutral time-delay systems in a numerical approach HF Moghadam, N Vasegh, SZ Moussavi Scientific Research Publishing /2012
- 2012 S.Z.Moussavi, Shikh Douragh, A Shayegani “ Investigation on Pollution Factors on Electrical field and Potential Distribution of Polymeric Insulator” Journal of Basic and Applied Scientific Research 2012
- 2012 S.Z.Moussavi, A.Rahmani “Comparison and inspection of harmonic effects in PMSM and induction motors” International journal of soft computing and engineering (IJSCE) May 2012
- 2012 S.Z.Moussavi, A.Rahmani “Position and speed control of permanent magnet motors,state space approach” International journal of soft computing and engineering (IJSCE) March 2012
- 2012 R. Ebrahimpour A. Sagedin, S.Z Moussavi, G. Fariz Hendi “A bio-inspired computational neural model for illustration face and car expertise effect on the gateway to the right ffa” International Journal of Innovative-IComputing, Information and Control ICIC International c 2012 ISSN 1349-4198 Volume 8, Number 5(B), May 2012 pp. 3451,3466
- 2012 Nourouzi, Moussavi,Ebadi “Techno- Economical Study of two Hybrid Power System for Remote Village in Iran by HOMER Software” The 2nd international conference on renewable energy generation and applications, march 2012, UAE
- 2011 S.Z.Moussavi,FazlolahRastegar “Small Signal Stability Assessment of Power Systems With Large-Scale Wind farms” JCIT (Journnceal of Convergence Information Technology) August 2011 Vloum 6, Number 7, 125-133
- 2011 S. Z. Moussavi, R. Atapour, Dynamic Modeling and Control of Doubly Fed Induction Generator Variable Speed Wind Turbine, Springer- Verlag Berlin Heidelberg 2011
- 2011 S.Z.Moussavi,R.Atapour, "Dynamic modeling and control of doubly fed induction generator variable speed wind turbine under network fault" Second international conference on control ,communication and power engineering CCPE, India2011
- 2011 S.Z.Moussavi,Alibadri,FazlolahRastegarkashkooli," Wind farm placement in order to congestion management using generation shift distribution factors" Proceeding of the IASTED international conference power and energy systems (Euro PES 2011)

- 2011 S.Z.Moussavi,FazlolahRastegarKashkooli," Stability Assessment of Wind Power Integration into the Power System"4th IEEE Internatinal Conference on Computer Science and information Technology, China 2011
- 2011 S.Z.Moussavi, IASTED The international association of science and technology for development, Greece 2011
- 2010 S.Z.Moussavi,KambizZarei and Reza Ebrahimpour, "Improving Classification Performance with Focus on the Complex Areas" 36th conference on current trends in theory and practice of computer science, spindleruvmlyn ,Czech republic January 2010, proceedings
- 2010 S.Z.Moussavi, A.Badri,And F.Rastegarkashkooli "Probabilistic Method of Wind Generation Placement for congestion Management" International Journal of Electrical and computer Engineering, 6:2 2010. 104-112
- 2010 SaeedrezaEhteram ,S.Z.Moussavi ,Mohsen Sadeghi,Seyed M. Mahdavi,AbbasKazemi , "Intelligent Monitoring Approach for Pipeline Defect Detection from MFL Inspection" JCIT (Journnceal of Convergence Information Technology), April 2010 Volume5,Number2, 43-50
- 2010 S.Z.Moussavi,MortezaFazly "Learning improvement by using Matlab Simulator in advanced electrical machinery laboratory" Procedia Social and Behavioral Sciences, 9(2010), 92-104
- 2010 Reza Ebrahimpour,EasaKazemiAbharian, Ali Akbar MotieBirjandiAndS.Z.Moussavi "Transient Stability Assessment of a power System with a UPFC by Mixture of Experts" IACSIT (International Association of Computer science and Information Technology) August 2010, Volume 2,Number4, 643-648
- 2010 MortezaFazly And S.Z.Moussavi "Simulation of Induction Machine Drive by Composite Model Flux Observer" IACSIT October 2010, Volume2,Number5, 935-942
- 2009 SaeedrezaEhteram ,AlborzRezazadehSereshkeh,S.Z.Moussavi,Alisadr,Ali Akbar Jalali "Utilizing a Pattern Recognition Controller and linear Discriminate Analysis for MFL Defect Detection" JCIT (Journnceal of Convergence Information Technology) March 2009 , Volume4,Number1111,9
- 2009 SaeedrezaEhteram,AlborzRezazadehSereshkeh,S.Z.Moussavi,Ali Sadr "A New Pattern Recognition Testing by the Use of Linear Discriminate Analysis" Modern Applied Science May 2009 Volume 3, number5, 118-126
- 2008 S.Z.Moussavi,SaeedrezaEhteram,Ali Sadr "The New Face Recognition Technique With The use of PCA and LDA" Journal of Convergence Information Technology, June 2008 Volume 3,Number2 , 34-38
- 2008 M.ShamsEsfandAbadi,S.Z.MoussaviAndA.Mahlooji Far "Variable, step_size, BlockNormalized, LeastMean, SquareAdaptiveFilter : AUnifiedFramework}ScientiaIranica, April2008, Volume15, Number2, 195–202
- 2007 SaeedrezaEhteram And S.Z.Moussavi" Semantic Supervised Clustering to land Extracting on SatImage Database" GESTS (International transactions on Computer Science and Engineering) March 2007 Volume 38,Number1,117

- 2007 S.Z.Moussavi,Saeed Reza Ehteram "Quantum Electronics yields Quantum brain AQuantum View on the application of Brain" February 2007, Volum 37,Number 1, 41-52
- 2007 S.Z.Moussavi,Alisadr,AliakbarJalali,SaeedrezaEhteram"PCA with Regional Feature Extraction in the application of face recognition",ICIIS Second international conference on industrial and information systems,Sri lanka 2007
- 2007 SaeedrezaEhteram,Alisadr,S.Z.Moussavi, " Rapid Face Recognition By Regional Feature Extraction", INISTA 2007 International Symposium on Innovations in Intelligent Systems and Applications,turkey2007
- 2007 M.S.E.Abadi,S.Z.Moussavi,A.Hadei"Variable step-size block least mean square Adaptive Filters" ICIIS First international conference on industrial and information systems ,srilanka2007
- 2007 Saeed Reza Ehteram,Alisadr,S.Z.Moussavi,Ali Akbar Jalali "Quantum Electronics Yields Quantum brain AQuantumView on the application of Brain" GESTS (International Transactions on Computer Science and Engineering) February 2007, Volume 37,Number1- 41-52
- 2006 S.Z.Moussavi," 502-128 multiple binary classifier fusion (MBCF) in application of satlimage database" The international associantion of science and thchnology for development, Austria 2006
- 2005 R.Ebrahimpour ,R.Ghaderi,M.SE.Abadi,S.Z.Mousavi," A mixture of Binary Classifiers for Face recognition based on a Divide abd Conquer Approach", ICIS 2005 International Conference on intelligent systems,Malaysia2005
- 2001 M.J.Nazemosadat, S.Z.Moussavi," The influence of the Caspian sea surface temperature on the occurrence of drought and excess rainfall over northern parts of iran" Second national conference of the royal meteorological society,uk 2001
- 2005 S.Z.Moussavi, Fazli "Learning improvement by using matlab simulator in advanced electrical machine laborator" World conference on learning teaching and administration, Egypt
- 2005 S. Z. Moussavi, A. Badri, Mazaher Esmaili, Optimization of Operational Energy Cost in a Hybrid System Using PV, Fuel Cell and Battery for Stand –alone Applications 7th National Conference of Electrical Engineering and Renewable Energy 36- Z. Mokhtari, Zh. Amirjamshidi, S. Z. Moussavi, P. Amiri, MPPT Controller with Fuzzy Method based on a SEPIC Converter, First International Conference and Exhibition on Solar Energy(ICESE), May 19-20, Tehran, Iran
- 2005 RezaEbrahimpour,EasaKazemiAbharian,S.Z.Moussavi,Ali Akbar MotieBirjandi "Transient Stability Assessment of Power by Mixture of experts" International Journal of Engineering (IJE) Volume4,Issue(1), 93-103

Publications in Persian

4 books and over 20 publications