

# **Niki Moslemi**

**Power Engineer**  
**Department of Power System Studies Group**  
**Electric Power Systems Research Center of NRI**  
**Tehran, Iran**

## **Personal Information:**

Birth: 23 March 1975  
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## **Education:**

M.Sc. Electrical Power Engineering , Isfahan University of Technology, Isfahan  
B.Sc. Electrical Power Engineering , College of Engineering, University of Tehran, Tehran

## **Management and Administrative Activities:**

1. Manager of Power System Research Center, 2008 to present
2. Vice president of Distribution Institute
3. Member of National Committee of Power Quality of Tavanir
4. Head of Technical Committee of IEC TC64 of Iran with the title of "Electrical Installation and Electrical Shock Protection"

## **Research Activities:**

1. Project advisor of "Long-Term Load Forecasting of distribution network", Niroo Research Institute, 1998
2. Project advisor of "identification of fault location of distribution network", Niroo Research Institute, 2000
3. Project advisor of "Assessment & Improvement of Power Transmission System's Reliability in Khorasan Regional Electric Company (KHREC)", Niroo Research Institute, 2001, Project Code: PSYBH01
4. Project advisor of "Assessment & Improvement of Power Transmission System's Reliability in Fars Regional Electric Company (FREC)", Niroo Research Institute, 2001, Project Code: PSYBF01
5. Project advisor of "Power System Reliability Evaluation and Analysis Software Development", Niroo Research Institute, 2003, Project Code: PSYPN05
6. Project advisor of "Provision and Development of Dynamic Studies, Harmonic Load Flow, AC-DC Analysis, Reliability and Power Cost Allocation Algorithms in Transmission Network Based on the SABA Software", Niroo Research Institute, 2004, Project Code: PSYBT03
7. Project advisor of "Reliability Evaluation and Anticipation in Fars Transmission and Sub transmission Network", Niroo Research Institute, 2004
8. Project manager of "Reliability Evaluation and Anticipation in Azarbaijan Transmission and Sub transmission Network", Niroo Research Institute, 2005, Project Code: PSYBA02
9. Project manager of "Developing Suitable Algorithm to Select the Sample Measurement Points for Power Quality Evaluation in Tehran Distribution Network", Niroo Research Institute, 2006, Project Code: PONBT03
10. Project advisor of "Structural Optimization and Uses Interface Capability Improvement of SABA", Niroo Research Institute, 2006, Project Code: PSYPN06

11. Project manager of "Design and implementation of DMS (Distribution Management System) software\_ power system", Niroo Research Institute, 2007
12. Project advisor of "Implementation and installation of the general software for power plant failure documentation and analysis in Azarbayjan regional electric company power plants", Niroo Research Institute, 2007, Project Code: PSYBA03
13. Project advisor of "SABA Software Development for distribution network analysis", Niroo Research Institute, 2008
14. Project advisor of "Reference Laboratories needed for Electric Power Industry in the field of electrical equipment-power system", Niroo Research Institute, 2008
15. Project advisor of "Autorecloser setting in Iran 400 kv transmission network", Niroo Research Institute, 2009, Project Code: PSYMS04
16. Project manager of Revision of Standard No. 195 Titled "General, Technical and Practical Specification of Road Lighting", Niroo Research Institute, 2010, Project Code: CSYSP02
17. Project advisor of "Reliability evaluation and anticipation in yazd transmission and sub transmission network to reduce notsupplied energy", Niroo Research Institute, 2011, Project Code : PSYBY01
18. Project advisor of "Reliability evaluation and anticipation in Hormozgan transmission and sub transmission network to reduce not-supplied energy", Niroo Research Institute, 2011, Project Code: PSYBN02
19. Project advisor of "Upgrading SABA technology from MFC (C++) to DOTNET(C#) and development it to use in basic power market and restructured networks analysis", Niroo Research Institute, 2011
20. Project manager of "Codify IRAN suburban roadway lighting standard", Niroo Research Institute, 2011
21. Project advisor of "Reduce energy loss in urban and suburban road lighting of Alborz Regional Electric Company", Niroo Research Institute, 2012
22. Project manager of "reliability analysis software for transmission and sub transmission network", Niroo Research Institute, 2012
23. Project advisor of "affecting factors analysis on innovation and technology development in electric power industry by using agent-based modeling", Niroo Research Institute , 2012
24. Project advisor of "Evaluation of power quality and training Regional Electric Companies", Niroo Research Institute, 2012
25. Project manager of "Codify IRAN suburban roadway lighting standard", Niroo Research Institute, 2013
26. Project advisor of "Prepare and edit required criteria in power industry" , Niroo Research Institute, 2013
27. Project advisor of "Power Distribution Software Development for Network Planning and Analysis Purposes", Niroo Research Institute, 2013, Project Code: PSYPN10
28. Project manager of "Edit programming and SABA software development for RCM in transmission and sub transmission network", Niroo Research Institute, 2013
29. Project advisor of "Research and Technology Management in Iran Electricity Industry", Niroo Research Institute, 2014, Project Code: PSYPN13
30. Project advisor of "Determining and Providing software to Select the Sample Measurement Points and system index for Power Quality Evaluation in transmission and sub transmission network", Niroo Research Institute, 2013
31. Project advisor of "Collect information and software required for Reliability Functional Model in Iran power network", Niroo Research Institute, 2013
32. Project advisor of "Providing the development roadmap for reliability in Iran power network", Niroo Research Institute, 2015
33. Project advisor of "Preparing Strategic plan and design technology roadmap, implementation and development of analyze, study and Strategic software in Iran power network", NRI, 2015
34. Project advisor of "Documentation of Technical Requirements of Photovoltaic(PV) Systems for supplying Electrical Demands in Residential and Business Buildings", Niroo Research Institute, 2015

35. Project advisor of "Transmission expansion planning and distribution feeder by adding wind power plants in transmission and distribution network with considering dynamic load lines", Niroy Research Institute, 2015
36. Project advisor of "Studies and compared regulation and management of Transmission and Sub transmission Network in the other countries", Niroy Research Institute, 2015
37. Project manager of "Establishment of National reliability system for Iran Regional Electric Companies and Tavanir Company", Niroy Research Institute, 2015
38. Project manager of "Preparing instruction of direct electric car charging station's standard", Niroy Research Institute, 2016
39. Project advisor of "Support and development of short-term load forecasting software", Niroy Research Institute, 2016

**Publications (Journal papers and Conference papers):**

1. H.Raoufi, N.Moslemi and H.Berahmandpour. "Evaluation of Transmission Lines Parameter's Effect in Secondary Arc Duration Time due to Fault", 11th Seminar on Power Transmission Lines & 8th Seminar on Insulators, 2009, Tehran, IRAN.
2. D.jalali, N.Moslemi and Ali R.Shirani, "Proposed Methods for Recording and Analyzing of Transmission Lines and Substations Outages for Reliability Analyzing and Identifying the Unreliable Points of the Power System", Volume 19, Issue:3, Indian journal of Water and EnergyPrint ISSN : 0021-1672. Online ISSN : 0974-4703,2009.
3. N.moslemi,M.kazemi,S.M.abedi,H.khatibzadeh and M.jafarian."Maintenance scheduling of transmission systems considering coordinated outages"IEEE system Journal,2017
4. N.moslemi,M.kazemi,S.M.abedi,H.khatibzadeh and M.jafarian." Mode based reliability centered maintenance in transmission system" Volume 27, Electrical energy systems, Issue 4, April 2017
5. M.kazemi,H.karami,M.gholami, H.khatibzadeh and N.moslemi," priority index considering temperature and date proximity for selection of similar days in knowledge-based short term load forecasting method" Volume144, journal of Energy, February 2018
6. D.Jalali, H.Monsef and N.Moslemi, "Practical and Developed Method for Long-Term Load Forecasting Distribution Networks", 14th International Power System Conference, Tavanir Company, Power Research Institute, Tehran, 1999.
7. N.Moslemi, D.Jalali and J.Asgari, "Fault Location in Distribution Feeders using Wavelet Theory", 8th Conference in Electrical Distribution Systems, 2003, Tehran, Iran.
8. N.Moslemi, D.Jalali and J.Asgari, "An Accurate Wave Based Fault Location Technique in Distribution Feeders", 12th International Conference in Electrical and Electronics (ICEE), May 2004, Mashhad, Iran.
9. A.Rabiee, N.Moslemi and J.Abbasi, "A New Algorithm for Minimal Cutset Enumeration of Network by Branch Addition", 12th International Conference in Electrical and Electronics (ICEE), May 2004, Mashhad, Iran.
10. D.Jalali and N.Moslemi, "Fault Location for Radial Distribution Systems using Fault Generated High-Frequency Transients and Wavelet Analysis" Electricity Distribution, 2005, CIRED 2005, 18th International Conference and Exhibition on. IET, 2005 .
11. J.Abbasi, N.Moslemi and A.Rabiee, "A New Algorithm for Enumeration of Minimum Cutsets of Graph by Branch Addition", Transmission and Distribution Conference and Exhibition: Asia and Pacific, 2005 IEEE/PES. IEEE, 2005 .
12. A.Alesaadi and N.Moslemi, "An Approach for Modeling the Protection System in Transmission Network Reliability Evaluation", Transmission and Distribution Conference and Exhibition: Asia and Pacific, 2005 IEEE/PES. IEEE, 2005.

13. A.R.Alesadi, M.R.Haghifam, M.Fotouhi Firoozabad and N.Moslemi, "An Approach for Modeling the Protection System in Transmission Network Reliability Evaluation", 20th International Power System Conference, November 2005, Tehran, Iran .
14. A.R.Alesaadi, M.R.Haghifam, M.Fotuhi, N.Moslemi and J.Abbasi, "An Approach for Modeling the Protection System in Transmission Network Reliability Evaluation", 20th International Power System Conference, November 2005, Tehran, Iran.
15. N.Moslemi, D.Jalali, H.Danaei and F.Nikooray, "Failure Analysis for Transmission Network Reliability Study", 21th International Power System Conference, November 2006, Tehran, Iran.
16. H.Berahmandpour, A.H.Mohaamdzadeh Niaki and N.Moslemi, "A new Algorithm for Load Flow Calculation in Distribution Networks", 22th Power System Conference (PSC), Tehran, 2007.
17. D.Jalali, N.Moslemi, H.Berahmandpour and J.Bahrami, "A New Method for Measurement Site's Selecting to Distribution System Power Quality Assessment", 22th Power System Conference (PSC), 2007, Tehran, Iran.
18. N.Moslemi and J.Abbasi, "A New Fast and Simple Approach for Minimal Cut Set Determination in a Network Graph Based on the Network Connection Matrix" 22th Power System Conference (PSC), Tehran, 2007.
19. A.Alesadi, N Moslemi, J.Abbasi, D.Jalai and F. Nikoorai, "Utilization of Reliability Studies in Planning and Expanding of Transmission and Sub Transmission Networks", 22th Power System Conference (PSC), Tehran, 2007.
20. D.Jalali, N.Moslemi and A.R.Shirani, "Proposed Methods for Recording and Analyzing of Transmission Lines and Substations Outages for Reliability Analyzing and Identifying the Unreliable Points of the Power System", Cigre Conference, Aug.25-29, 2008, Paris, FRANCE.
21. J.Abbasi, N.Moslemi and H.Berahmandpour. "A New Fast Detection and Identification of Island in Power Nets by Network Connection Matrix", 23rd International Power System Conference (PSC), 2008, Tehran, IRAN.
22. K.Bahrami, B.Amini, M.Kavoosiyan, N.Moslemi and j.Olamaee, "Design and Implementation of Load Flow Module for Distribution Management System Based on CIM Standard", 23rd International Power System Conference, Tavanir Company, Power Research Institute, Tehran, 2008.
23. N.Moslemi and H.Berahmandpour. "A New Algorithm for Distribution Network Reconfiguration by Reduction Loss and Branch Overload", 23rd International Power System Conference, Tavanir Company, Power Research Institute, Tehran, 2008.
24. H.Berahmandpour, N.Moslemi and M.zahed. "The Rule of Neutral Reactor in Compensation of S.O.V in EHV Line Reclosing", 24th International Power System Conference, Tavanir Company, Power Research Institute, Tehran, 2009.
25. H.Raoufi, N.Moslemi, D.Jalali and M.R.Zahed, "Secondary Arc Duration Time Sensitivity Analysis with respect to Transmission Line Modeling Parameters", 24th International Power System Conference (PSC), 2009, Tehran, IRAN.
26. Z.Madihi Bidgoli, H.Berahmandpour, D.Jalali and N.Moslemi, "Transmission Network Time Domain Equivalencing for Line Switching Transients", 25th Power System Conference PSC 2010.
27. N.Moslemi, D.Jalali, M.R.Zahed, H.Berahmandpour and H.Raoufi, "Development of Fault Arc Modeling and its Simulation in EMTP for Reclosing of Line Circuit Breakers for AC Transmission Lines", 25th Power System Conference PSC 2010.
28. H.Berahmandpour, N.Moslemi and M.R.Zahed, "The Effect of Reactive Compensation in EHV Transmission Line in Reclosing SOV After a Single Phase Fault", 25th Power System Conference PSC 2010.
29. R.Rahmat Samii, H.Raoufi and N.Moslemi, "Effect of two-circuit lines on unbalanced distribution systems", Electrical Power Distribution Networks (EPDC), 2011 16th Conference on. IEEE, 2011.

30. M.Karami, H.Khatibzadeh Azad, D.Jalali, E.Jalilzadeh, E.Kermanshahi and N.Moslemi, "A Practical Algorithm for Placement of Normally Open Switches in Iran MV Distribution Networks", 26th International Power System Conference, Nov. 2011, Tehran, Iran.
31. M.Karami, H.Khatibzadeh Azad, D.Jalali, E.Jalilzadeh, E.Kermanshahi and N.Moslemi, "A Practical Algorithm for Placement of Normally Close Switches in Iran MV Distribution Networks", 26th International Power System Conference, Nov. 2011, Tehran, Iran.
32. R.Rahmat Samiim, N.Moslemi, H.Berahmandpour and H.Raufi, "The Effect of Earth Current Modeling on Unbalanced Distribution System Load Flow", 26th International Power System Conference, Nov.2011, Tehran, Iran.
33. A,Moshari, Z,Madihi Bidgoli, N.Moslemi and D.Jalali. "Long-Term Distribution Load Forecasting Using Improved Multiple Regresion Method", 26th International Power System Conference, Nov. 2011, Tehran, Iran.
34. N.Moslemi, E.Jalilzadeh, E.Akavan Rezaii, D.Jalali and M.R.Haghifam, "A Fast and Simple Algorithm for Graph Tracing by Graph Coloring for Reliability Calculation in Distribution System", 26th International Power System Conference, Nov. 2011, Tehran, Iran.
35. M.E.Mosaiebian, J.Nezafat Namini and N.Moslemi, "Identification of Transmission Line Electrical Parameters using Phasor Measurement", 26th International Power System Conference, Nov. 2011, Tehran, Iran.
36. A.Al-Saadi, N.Moslemi and H.Berahmandpour. "A New and Feaseble Method for Transformer Modeling in Three Phase Load Flow", 16th Electric Power Distribution Conference, EPDC 2011, Tehran, Iran.
37. A.Moshari, Z.Madihi Bidgoli, N.Moslemi and D.Jalali, "Development of Improved Multiple Regression in Long-Term Load Forecasting by using Smoothing Algorithms and Redevelopment in Transmission and Sub Transmission Network", 27th International Power System Conference, Tavanir Company, Power Research Institute, Tehran, 2012.
38. M.Kazemi, M.Karimi, N.Moslemi and D.Jalali. "Reliability Calculating with considering Transformer Capacity of Electricity Posts and Radial Section Maneuver in Transmission and Sub Transmission Network ", 27th International Power System Conference , Tavanir Company, Power Research Institute , Tehran , 2012
39. H.Khatibzadeh-Azad , M.Karami , N.Moslemi and M.Kazemi . "An Algorithm for N.C and N.O Disconnecter Placement in Medium Voltage Distribution Networks with Conversion of Linear Load Model to Point Load Model " , 27th International Power System Conference , Tavanir Company , Power Research Institute , Tehran , 2012
40. E. Jalilzadeh , E.Akhavan Rezaee , N.Moslemi and D. Jalali . " An Innovative Algorithm for Fast Detection and Identification of Islands by Key Function in Distribution Networks " ,17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012
41. M.Hossein Shariatkhah , E.Jalilzadeh , N.Moslemi and D.Jalali . " Assessment of Affect of Schaduled Outage Time on Reliability Distribution Network " , 17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012
42. E.Jalilzadeh , N.Moslemi , D.Jalali and, E.Akhavan Rezaee . " A New Algorithm in Reliability Calculation by Modeling Operation of Maneuver Points and Protective Equipments in Distribution Networks " , 17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012
43. N.Moslemi , D.Jalali , Z.Piroozeh and H.Khatibzadeh Azad . " Network Events Recording Method in Reliability Studies " , 17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012

44. F.Niko Sadeghi , E.Jalilzadeh , N.Moslemi and D.Jalali . " Selection of Separator Equipments and Their Effects on Reliability Index in Distribution Networks " ,17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012
45. D.Solati Al-Karan , H.Berahmandpour and N.Moslemi . " A Yield Curve Fitting Model of High Current Relays Operation " , 17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012
46. H.Khatibzadeh Azad , H.Berahmandpour and N.Moslemi . " Coordinated Regulation of Overload Protection for Medium Voltage Network in Maneuver Situation " , 17th Power Distribution Networks National Conference , Iran Electrical and Electronics Engineers Association , Tehran , 2012
47. A.Moshari and N.Moslemi. " A Novel Algorithm for Long-Term Load Forecasting of Distribution Networks under Redevelopment Conditions ." Vol . 2013 .
48. M.Shafie Rad , H.Khatibzadeh , N.Moslemi and D.Jalali . " Edit Suitable Algorithm to Select the Sample Measurement Points and System Index for Power Quality Evaluation in Transmission and Sub Transmission Network " , 28th International Power System Conference , Tavanir Company , Power Research Institute ,Tehran , 2013
49. M.Kazemi , M.Karimi , N.Moslemi and D. Jalali . " A Suitable Algorithm for Increasing Reliability by Sensitivity Analysis in Transmission and Sub Transmission Network " , 28th International Power System Conference , Tavanir Company , Power Research Institute , Tehran , 2013
50. M. Kazemi , M.Karimi , N. Moslemi and D.Jalali . " Error Effect of Disconnectors on Calculating Reliability in Transmission and Sub Transmission Network " , 28th International Power System Conference , Tavanir Company , Power Research Institute ,Tehran , 2013
51. H. Berahmandpour , N.Moslemi , S.Kamankesh , J.Nezaafat Namini and S.Salimi . " Research Management Structure Suggestion in Electric Industry " , 28th International Power System Conference , Tehran , 2013
52. S. M.Hashemi , N.Moslemi and M.Jafarian . " Technical and Economical Evaluation of Transmission Network Expantion Planning in Siyah Poosh Wind Power Plant with Considering security " , Fourth CIRED Regional Conference , 2015
53. M.Karimi , H.Karami , M.Gholami , H.Khatibzadeh and N.Moslemi . " Prioritize Similar Days for Short-Term Load Forecasting in Iran Power Network with Considering Temperature and Classification of Power System " , Iranian Association of Electrical and Electronics Engineers , 2016
54. M.Khodadadi Rpanahi , H.Rauofi , S.Heidary , N.Moslemi , M.Jafarian , J.nezafat namini and S. ghoparanlo . " Technical and Economic Evaluation of Implementing DLR Monitoring Systems for Wind Farm Expansion Planning " , 31st International Power System Conference , Tehran , 2016
55. H.Berahmandpour and N.Moslemi . " Loss Allocation for Production Units Based on Tracing Power in Transmission Network " , 31st International Power System Conference , Tehran , 2016
56. N.Moslemi , M. Kazemi , S.M.Abedi , H. Khatibzadeh-Azad and M.Jafarian . " Maintenance Scheduling of Transmission Systems Considering Coordinated Outages " . IEEE Systems Journal . Vol.2017
57. N.Moslemi , M. Kazemi , S.M.Abedi , H.Khatibzadeh-Azad and M.Jafarian . " Mode-Based Reliability Centered Maintenance in Transmission System . International Transactions on Electrical Energy Systems " , 27(4) , Vol.2017.
58. N. Moslemi , M. Kazemi , S. M. Abedi , H. Khatibzadeh , M.Jafarian and S.Salimi , " Presenting Comprehensive Algorithm For Long-Term Scheduling Of Preventive Maintenance In The Electric Transmission Networks " , Journal of Electrical Engineering Science (JEES) , Article 4, Volume 3, Issue 2, Summer 2017