

# Seyyed Mostafa Nosratabadi (CV)

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## PERSONAL INFORMATION

- **Full name** Seyyed Mostafa Nosratabadi
- **Place & date of birth** Sirjan/Iran & Sep-21-1985
- **Nationality** Iranian
- **Marital status** Married

## CONTACT INFORMATION

- **Position & Address** Assistant Professor at Department of Electrical Engineering, Sirjan University of Technology, Sirjan 78137, Iran
- **Telephone Number** +98-34-41522045
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## EDUCATION INFORMATION

- **Ph.D. degree (2012-2016)** Ph.D. in Electrical Engineering, “**University of Isfahan**”, Isfahan, Iran. GPA: 17.46/20.
  - Title: Generation Scheduling of a Virtual Power Plant Considering Industrial Microgrids in Power Systems
  - Supervisor: Prof. R.A. Hooshmand.
- **M.Sc. degree (2008-2011)** M.Sc. in Electrical Engineering, “**University of Kashan**”, Kashan, Iran. GPA: 18.70/20.
  - Title: Placement of Phasor Measurement Units for Power System State Estimation with Uncertainty in Both Measurements and Parameters Using DE Method
  - Supervisor: Prof. A. Ketabi.
- **B.Sc. degree (2004-2008)** B.Sc. in Electrical Engineering, “**Shahid Bahonar University of Kerman**”, Kerman, Iran. GPA: 15.13/20.
  - Title: Dynamic Voltage Stability in Power Systems
  - Supervisor: Prof. M. Mohamadian.

## VISITING EXPERIENCE

- **Sabbatical Leave (2015-2016)** **University of Castilla-La Manch**, Ciudad Real, Spain.
  - Visiting Ph.D. student at the Departamento de Ingeniería Eléctrica, Electrónica, Automática y Comunicaciones, E.T.S.I. Industriales
  - Research on Robust Optimization for Virtual Power Plant Bidding in Competitive Markets (with Prof. José M. Arroyo and Prof. Luis Baringo)

### **TEACHING AND WORK EXPERIENCES**

- Teaching at University of Isfahan, Isfahan, Iran.
- Teaching at Malek-e Ashtar University of Technology, Isfahan, Iran.
- Teaching at Islamic Azad University, Sirjan Research and Science Branch, Sirjan, Iran.
- Teaching at Sirjan University of Technology, Sirjan, Iran.
- Teaching at Allameh Feiz Kashani University, Kashan, Iran.
- Teaching at Bonyan University, Isfahan, Iran.
- Teaching at Islamic Azad University, Tiran Branch, Isfahan, Iran.
- Consultant engineer in Beton Barjasteh Company, Birjand, Iran.
- Consultant engineer in Pirouz Company, Birjand, Iran.

### **INSTITUTIONAL EXPERIENCES**

- (2006- Present) Student Member of Iranian Association of Electrical and Electronics Engineers (IAEEE).
- (2010- Present) Graduate Student Member of Institute of Electrical and Electronics Engineers (IEEE).
- (2010- 2011) Representative of National Student and Scientific Organization of Electrical Engineering (NSSOEE) in University of Kashan.
- (2010- Present) Special Member of National Student and Scientific Organization of Electrical Engineering (NSSOEE).
- (2011- Present) Member of International Association for Engineering and Management Education (IAEME).
- (Present) Member of board of directors of Bonyan Gostar Yekta production, installation and Service Corporation.
- (Present) Member of Talents Organization at University of Isfahan.
- (Present) Head Chief of Pars Energy Sepehr Kavir Corporation.

### **COLLABORATION IN RESEARCH PROJECTS**

- Design of Smart Grid Structure for University of Isfahan's Units in order to System Costs Reduction Using Units Demand Management.
- Design of a Static Switch for Synchronization of a Micro-Grid to the Main Grid.
- Tilt Angle Effect Evaluation of Fixed Solar Panels on Electrical Power Generation of Solar Cells in Islamic Azad University of Isfahan.
- Design of a Photovoltaic System for Islamic Azad University of Isfahan and Investigation Optimum Tilt angle Effects.

## **JOURNAL PUBLICATIONS**

1. A. Ketabi, **S.M. Nosratabadi**, M.R. Sheibani, "Optimal PMU Placement with Uncertainty Using Pareto Method," *Mathematical Problems in Engineering* (ISI), Vol. 2012, No. 501893, Jun. 2012. (In English)
2. A. Ketabi, M.R. Sheibani, **S.M. Nosratabadi**, "Power Quality Meters Placement Using Seeker Optimization Algorithm for Harmonic State Estimation," *International Journal of Electrical Power and Energy Systems* (ISI), Vol. 43, No. 1, Jun. 2012. (In English)
3. S.A. Taher, **S.M. Nosratabadi**, M.R. Sheibani, "An Optimal Load Frequency Control using Artificial Bee Colony Algorithm in Deregulated Power Systems Including SMES," *Intelligent Systems in Electrical Engineering Journal* (ISC), Vol. 1, No.1, pp. 23-42, Jan. 2011. (In Persian)
4. S.A. Taher, M.R. Sheibani, **S.M. Nosratabadi**, M. Jadidoleslam "A New Approach for Optimal Allocation of DG in Distribution Systems Using GA Method," *Intelligent Systems in Electrical Engineering Journal* (ISC), Vol. 2, No.3, pp. 79-90, Oct. 2012. (In Persian)
5. J. Modarresi, R-A. Hooshmand, **S.M. Nosratabadi**, "Enhancement of Power Measurement Using a Modified Method Based on Wavelet with Preprocessing: Electric Arc Furnace Case Study," *Transactions of the Institute of Measurement and Control* (ISI), Vol. 37, No. 9, pp. 1095-1108, Oct. 2015. (In English)
6. E. Gholipour, **S.M. Nosratabadi**, "A New Coordination Strategy of SSSC and PSS Controllers in Power System Using SOA Algorithm Based on Pareto Method," *International Journal of Electrical Power and Energy Systems* (ISI), Vol. 67, 462– 471, May 2015. (In English)
7. **S.M. Nosratabadi**, E. Gholipour, "Power System Harmonic Reduction and Voltage Control Using DFIG Converters as an Active Filter," *Turkish Journal of Electrical Engineering & Computer Sciences* (ISI), Vol. 24, pp. 3105-3122, 2016. (In English)
8. **S.M. Nosratabadi**, R-A. Hooshmand, E. Gholipour, M. Parastegari, "Optimal Placement of Distributed Generation and Demand Response Resources to Determine Optimal Virtual Power Plant," *International Transactions on Electrical Energy Systems* (ISI), Vol. 26, pp. 1103–1120, 2016. (In English)
9. **S.M. Nosratabadi**, R-A. Hooshmand, E. Gholipour, "Stochastic Profit-Based Scheduling of Industrial Virtual Power Plant Using the Best Demand Response Strategy," *Applied Energy* (ISI), Vol. 164, pp. 590–606, Feb. 2016. (In English)
10. D. Roshandoust, R-A. Hooshmand, E. Gholipour, **S.M. Nosratabadi**, "A Novel Energy Management System for CHP-based Industrial Microgrids Including Generation Scheduling and Demand Response," *Tabriz Journal of Electrical Engineering* (ISC), Vol. 46, No. 3, pp. 197-209, Autumn 2016. (In Persian)
11. A. Ketabi, M.R. Sheibani, **S.M. Nosratabadi**, "Optimal Power Quality Meters Placement for Harmonic State Estimation with Double Contingencies in Power Systems," *Computational Intelligence in Electrical Engineering* (ISC), Vol. 7, No. 2, pp. 17-28, Jul. 2016. (In Persian)

12. **S.M. Nosratabadi**, R-A. Hooshmand, E. Gholipour, "A Comprehensive Review on Microgrid and Virtual Power Plant Concepts Employed for Distributed Energy Resources Scheduling in Power Systems," *Renewable & Sustainable Energy Reviews* (ISI), Vol. 67, pp. 341–363, 2017. (In English)
13. S. Rahimi, R-A. Hooshmand, A. Khodabakhshian, **S.M. Nosratabadi**, "A New Method for Supply Reliability Assessment in Industrial Microgrids Considering Load Growth and Renewable Resources Uncertainty," *Iranian Journal of Electrical and Computer Engineering* (ISC), Vol. 14, No. 3, Autumn 2016. (In Persian)
14. **S.M. Nosratabadi**, R-A. Hooshmand, E. Gholipour, "Event-Based Scheduling of Industrial Technical Virtual Power Plant Considering Wind Power Stochastic Scenarios - A Case Study in Iran," submitted to *Renewable Energy* (ISI). (In English)
15. **S.M. Nosratabadi**, R-A. Hooshmand, E. Gholipour, S. Rahimi, "Scenario-Based Reliability Assessment of Industrial Microgrids Considering Renewable Resources and Load Growth," submitted to *Simulation Modeling Practice and Theory* (ISI). (In English)
16. **S.M. Nosratabadi**, R-A. Hooshmand, E. Gholipour, "Demand Response Program Selection Framework for Event-Based Stochastic Energy Management of Industrial Technical Virtual Power Plant," submitted to *International Transactions on Electrical Energy Systems* (ISI). (In English)
17. A. Ketabi, M.R. Sheibani, **S.M. Nosratabadi**, "Optimal Power Quality Meters Placement with Consideration of Single Line and Meter Loss Contingencies," submitted to *Sustainable Energy, Grids and Networks*. (In English)

## **CONFERENCE PUBLICATIONS**

1. A. Ketabi, **S.M. Nosratabadi**, M.R. Sheibani, "Optimal PMU Placement Based on Mean Square Error Using Differential Evolution Algorithm," *In IEEE Proc. of the First Power Quality Conference (PQC 2010)*, pp.1-6, Sep. 2010. (In English)
2. **S.M. Nosratabadi**, M.R. Sheibani, "Optimal Identification of Adaptive Notch Filter Parameters for a Powerful Synchronization Unit Achievement in Power System by Genetic Algorithm," *25<sup>th</sup> International Power System Conference (PSC 2010)*, Tehran- Iran, Nov. 2010. (In Persian)
3. A. Ketabi, M.R. Sheibani, **S.M. Nosratabadi**, "Optimal Placement of harmonic Meters for Harmonic State Estimation by Differential Evolution Algorithm," *25<sup>th</sup> International Power System Conference (PSC 2010)*, Tehran- Iran, Nov. 2010. (In Persian)
4. M. Jadidoleslam, H. Houshmandi Safa, **S.M. Nosratabadi**, "Presentation of a New Indicator for Evaluation of Dynamic Voltage Stability," *2nd National Conference on Computer, Electrical and IT Engineering (CEIC'09)*, Hamedan, Iran, Feb. 2009. (In Persian)
5. J. Modarresi, **S.M. Nosratabadi**, M.H. Nasri, "A New Method to Synchronization of Power

System Components by Amplitude and Phase Extraction Using Wavelet Transform and FIR Filter,” *28<sup>th</sup> International Power System Conference (PSC 2013)*, Tehran- Iran, Nov. 2013. (In Persian)

6. **S.M. Nosratabadi**, M.R. Sheibani, J. Modarresi, M. Jadidoleslam, “State Estimation Application in Phasor Measurement Placement Considering Contingency Using Differential Evolution Algorithm Based on Pareto Method,” *Smart Grid Conference 2013 (SGC 2013)*, Tehran- Iran, Dec. 2013. (In English)
7. B. Nakisa, **S.M. Nosratabadi**, A. Rajabi, M. Dehghani, and M. Molla-Ahmadi, “Synchronization of a Microgrid with Main Network through Static Switch Based on Neural Network Controller,” *IEEE Proc. of the 19th Electrical Power Distribution Conference (EPDC 2014)*, Niroo Research Institute, Tehran- Iran, pp. 94-99, May 2014. (In English)
8. J. Modarresi, **S.M. Nosratabadi**, V.R. Seyrafian, “Determination of Solar Collectors Optimum Tilt Angle and Investigation of Its Effect,” *Smart Grid Conference 2014 (SGC 2014)*, Tehran- Iran, Dec. 2014. (In English)
9. S. Rahimi, R-A. Hooshmand, A. Khodabakhshian, **S.M. Nosratabadi**, “Supply Reliability Evaluation in Industrial Networks Considering Load Growth and Renewable Resources Uncertainty,” *Conference and Exhibition on Electricity Distribution*, Tehran- Iran, Jan. 2015. (In Persian)
10. **S.M. Nosratabadi**, M.H. Nasri, J. Modarresi, “Double Contingency Consideration in PMU Placement Using MSFLA based on Pareto Method,” *In IEEE Proc. of the 3<sup>rd</sup> International Congress on Electric Industry Automation*, Shiraz- Iran, Feb. 2015. (In English)
11. M. Sheikh-hosseini, **S.M. Nosratabadi**, “Sensor localization in Wireless Sensor Networks Using Pareto Multi-Objective Optimization Method,” *Smart Grid Conference 2016 (SGC 2016)*, Kerman- Iran, Dec. 2016. (In Persian)

## **WORKSHOPS**

- Certificate from Renewable Energies Workshop in High-tech. center of Kerman- Iran.
- Certificate from Power System Stability Enhancement Using Adaptive and Intelligent Control Workshop by Prof. O. P. Malik, University of Calgary, Canada in Power Institute of Tehran- Iran.
- Certificate from Introduction to ETAP Software Workshop by Tose Faratav Engineering Company.
- Certificate from Optimization of Transmission and Sub Distribution Network the bed of Urban Installation Joint Tunnel of Tehran Regional Electricity Company Workshop.
- Certificate from International Workshop on Nanostructured Solar Cells and Solar Systems, University of Kashan- Iran.
- Certificate from Role of PMS (Power Management System) in making smart of Islanding Grids, Smart Grid Conference- Shahid Beheshti University- Iran.

## **REVIEWER FOR JOURNALS**

- Electric Power Components and Systems (Taylor & Francis)
- Energy Conversion and Management (Elsevier)
- International Journal of Electrical Power & Energy Systems (Elsevier)
- Applied Energy (Elsevier)
- International Transactions on Electrical Energy Systems (John Wiley & Sons)
- International Publisher of Science, Technology and Medicine (SciTechnol)
- Majlesi Journal of Electrical Engineering (Majlesi Branch, Islamic Azad University)
- Computational Intelligence in Electrical Engineering (University of Isfahan)
- Iranian Journal of Fuzzy Systems (University of Sistan and Baluchestan)